



34th International Geological Congress (IGC): AUSTRALIA 2012

Unearthing Our Past And Future – Resourcing Tomorrow

Brisbane Convention and Exhibition Centre (BCEC)
Queensland, Australia

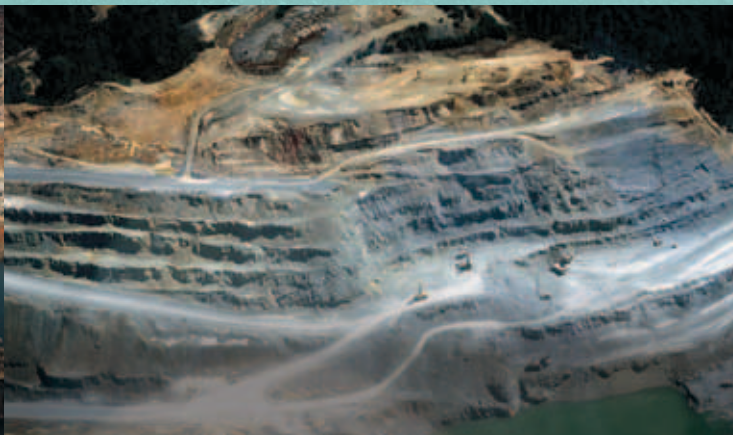
5 - 10 August, 2012 | www.34igc.org

34th IGC CIRCULARS

This is the fifth and final circular for the 34th IGC.

Program correct at time of finalisation on Thursday 5 July.

FIFTH AND FINAL CIRCULAR



Rowland.

RioTinto



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Major Sponsors



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Sponsors



Business Meetings

ORGANISATION	MEETING NAME	MEETING ROOM	TIME
Friday 3 Aug			
IUGS	IUGS Bureau meeting	Arbour Boardroom	0900
Saturday 4 Aug			
IUGS	Extraordinary EC meeting for the outgoing IUGS EC	A1	0900
IGCC	Outgoing IGCC meeting	A1	1300
OneGeology	OneGeology Steering Group meeting	P1	0930
Sunday 5 Aug			
IUGS	Meeting of IUGS-IGC Council	P2	0900
CCGM - CGMW	CGMW Bureau Meeting	P5	1030
Geological Society Of Australia (GSA)	GSA Council Meeting	M1	1000
University Of Helsinki	IGCP-SIDA 599 "The Changing Early Earth" Project Meeting	P3	1030
OneGeology	OneGeology Operational Management Group	M2	1030
International Subcommission on Stratigraphic Classification (ISSC)	ISSC Business meeting: Towards an integrated stratigraphy	P4	1030
Council For Geoscience	Science Communicators Inaugural Meeting	M9	1400
Institute Of Geology Chinese Academy Of Geological Sciences	Preparatory Meeting for the 2nd Workshop of IGCP/SIDA 600 "Metallogensis of Collisional Orogens in the East Tethyside Domain"	Merivales Boardroom 1	0900
Monday 6 Aug			
Rio Tinto	John McGagh, Head of Innovation – Rio Tinto	Sky 1	1830
China Ministry of Land and Resource(MLR)	China Ministry of Land and Resources meeting	A1	1400
IUGS Commission on Geo-science for Environmental Management	IUGS Commission on Geo-science for Environmental Management (GEM) meeting	Arbour Boardroom	1700
Geological Society Of Australia (GSA)	GSA Annual General Meeting	F1	1900
Geological Society Of Australia (GSA)	Earth Science History Group	M5	1900
Geological Society Of Australia (GSA)	GSA Geoheritage Meeting	P4	1900
International Association for Mathematical Geosciences (IAMG)	IAMG Council Meeting	Merivales Boardroom 1	1900
South Australian Museum + ICS	Neoproterozoic Subcommission-Cryogenian	P7	1900
South Australian Museum + ICS	Neoproterozoic Subcommission-Ediacaran	P7	1945
OneGeology	Directors' OneGeology open meeting	P5	1900
International Commission on Stratigraphy	International Commission on Stratigraphy - Open General meeting	A2	1900
International Association for Genesis of Ore Deposits(IAGOD)	IAGOD Council Meeting	A1	1900
IGCP	IGCP Business Meeting	M1	1900

ORGANISATION	MEETING NAME	MEETING ROOM	TIME
Tuesday 7 Aug			
Rio Tinto	Rio Tinto Postgraduate Reception (Invitation only)	M1	1830
Geological Society of London(GSL)	GSL Editors' Reception (Invitation only)	S1 Room	1830
Queensland Resources Council(QRC) and Brisbane Marketing	YES Network Industry Networking Evening	Sky Room	1900
Geoscience Australia	International GeoSurveys Forum	Boulevard Room	1330
Geoscience Australia	International GeoSurveys Forum reception	Boulevard North Terrace	1745
CCGM - CGMW	CGMW General assembly	Plaza Auditorium	0830
CSIRO Earth Science and Resource Engineering	National ASTER Geoscience Map Release	Plaza Auditorium	1830
International Commission on the History of Geological Sciences (INHIGEO)	Meeting of International Commission on the History of Geological Sciences (INHIGEO)	Boulevard Auditorium	1900
IUGS	IUGS EC with Affiliated Organizations	A1	1400
Geoscience Australia	IGCP Project 559 - Business Meeting	A2	1900
IUGS/IAGC	IUGS/IAGC Task Group on Global Geochemical Baselines	A1	1900
Geological Society Of Australia (GSA)	GSA Aust. Sedimentologists	M2	1900
Geological Society Of Australia (GSA)	AJES Editorial Meeting	P4	1900
Geological Society Of Australia (GSA)	GSA Economic Geology Group	P5	1900
Geological Society Of Australia (GSA)	GSA SGGMP	B2	1900
Geological Society Of Australia (GSA)	GSA Planetary Geoscience	B3	1900
Geological Society Of Australia (GSA)	GSA EEHSG	P10	1900
Geological Society Of Australia (GSA)	GSA Tectonics & Structural	M3	1900
Geological Society Of Australia (GSA)	LAVA	P3	1900
Geological Society Of Australia (GSA)	Australian Stratigraphy Commission meeting	Merivales Boardroom 1	1900
International Association for Genesis of Ore Deposits(IAGOD)	IAGOD General Assembly	P1	1900
International Association for Mathematical Geosciences(IAMG)	IAMG General Assembly	P2	1900
International Association of Sedimentologists	International Association of Sedimentologists Business Meeting	P7	1900
Subcommissions on Permian Stratigraphy (SPS) and Carboniferous Stratigraphy (SCS)	Business meeting of SPS and SCS	P9	1900
Association Of Geoscientists For International Development (AGID)	AGID Working Group for Geoethics	F1	1900

ORGANISATION	MEETING NAME	MEETING ROOM	TIME
International Subcommision on Devonian Stratigraphy (SDS):	Annual Business Meeting for International Subcommision on Devonian Stratigraphy (SDS)	P8	1900
Geologian Tutkimuskeskus	Business Meeting of the World Digital Magnetic Anomaly Map	B1	1900
Indian Geological Congress	Meeting of Indian Geological Congress	Concord Boardroom	1900
Subcommission on Ordovician Stratigraphy	Subcommission business meeting	Merivales Boardroom 2	1900
University of Western Sydney	Meeting of IMA-Commission on Gem Materials	Arbour Boardroom	1900
Wednesday 8 Aug			
Earth Science Matters Foundation	Meeting of National Committees for the Earth Science Matters Foundation	Arbour Boardroom	1830
IUGS COGE	IUGS COGE meeting	Merivales Boardroom 1	1830
Association of Applied Geochemists (AAG)	Association of Applied Geochemists (AAG) Annual General Meeting	M6	1900
Subcommission on Triassic Stratigraphy	Business Meeting of the Subcommission on Triassic Stratigraphy	M8	1900
IAEG	Meeting of IAEG Commission 17 on Aggregates	Arbour Boardroom	1530
Thursday 9 Aug			
IUGS	Meeting of IUGS-IGC Council	Sky room	0900
IUGS-UNESCO	Geological Applications of Remote Sensing Programme	Arbour Boardroom	1830
GEO	Geoscience Opportunities in GEO		1930
Asia Oceania Geosciences Society (AOGS)	AOGS Connects at IGC – All Are Welcome!	P1	1830
Association of Australasian Palaeontologists (AAP)	Business Meeting for the Association of Australasian Palaeontologists (AAP)	A1	1900
Association Of Geoscientists For International Development (AGID)	AGID Working Group for Geoethics (Invitation only)	F1	1900
Association Of Geoscientists For International Development (AGID)	General Assembly of the Association of Geoscientists for International Development		2000
IAEG C-10 / HSTG	Joint Meeting of IAEG C-10 Building Stone and Ornamental Rocks / IUGS Heritage Stone Task Group	M8	1900
International Geoscience Education Organisation	International Geoscience Education Organisation Council Meeting	A2	1900
International Commission on Stratigraphy	International Commission on Stratigraphy - Subcommissions and Executive meeting	Merivales Boardroom 1	1900
IAEG	Meeting of IAEG Comission 30 On Young Professionals	Merivales Boardroom 2	1900
Friday 10 Aug			
IUGS	Meeting of IUGS-IGC Council (if required)	Sky Room	0900
Saturday 11 Aug			
IUGS - CGI	IUGS Commission for Geoscience Information Council meeting	Arbour Boardroom	0900
IUGS	Meeting of new IUGS EC	A1	0900
IGCC	Meeting of new IGCC	A1	1300

Professional Development Workshops

Pre-Congress

WORKSHOP 29

DATE 31st July (Icebreaker) **START TIME:** 9am, 1st – 4th August (Workshop) **START TIME:** 9am
TITLE 6th International Shrimp Workshop
LOCATION O'Reilly's Rainforest Retreat, Lamington National Park, QLD
ORGANISERS Geoscience Australia Geochronology Laboratory

WORKSHOP 2

DATE Thursday 2nd **START TIME:** 9am & Friday 3rd August 2012 **START TIME:** 9am
TITLE 3D Geological Modelling and Interactive Targeting for Mineral Exploration
LOCATION Mira Geoscience Office Toowong Brisbane
ORGANISERS Mira Geoscience

WORKSHOP 4

DATE Saturday 4th August 2012 **START TIME:** 9am
TITLE Geochemistry in Mineral Exploration
LOCATION Hotel George Williams 325 George St Brisbane
ORGANISERS Members of Association of Applied Geochemists

WORKSHOP 31

DATE Saturday 4th & Sunday 5th August 2012 **START TIME:** 9am
TITLE Introduction to Geological Storage of CO₂
LOCATION Queensland University Of Technology, Brisbane
ORGANISERS Geoscience Australia

WORKSHOP 6

DATE Sunday 5th August 2012 **START TIME:** 3pm
TITLE The International Geo Sample Number: Towards a Global Standard Method for Identifying, Locating & Citing Physical Samples
LOCATION Room P 6, Brisbane Convention and Exhibition Centre
ORGANISERS Kerstin Lehnert & Lesley Wyborn

WORKSHOP 8

DATE Sunday 5th August 2012 **START TIME:** 9am
TITLE Contourites and Their Significance: Oceanographic Processes and Sedimentary Products Associated with Deep - Water Circulation
LOCATION Room P 7, Brisbane Convention and Exhibition Centre
ORGANISERS Universidad De Vigo Spain

WORKSHOP 9

DATE Sunday 5th August 2012 **START TIME:** 9am
TITLE The Practical Geology of The Solwara 1 Seafloor Massive Sulphide Deposit, PNG
LOCATION Meet at Merivales Café Bar & Restaurant, located in BCEC, at 9am for transport to venue
ORGANISERS Nautilus Minerals

WORKSHOP 10

DATE Sunday 5th August 2012 **START TIME:** 9am
TITLE Stratigraphic Forward Modelling;
LOCATION University Of Queensland
ORGANISERS CSIRO

WORKSHOP 11

DATE Sunday 5th August 2012 **START TIME:** 9am
TITLE Techniques And Applications Of Petroleum Inclusion Analysis
LOCATION Room P 8, Brisbane Convention and Exhibition Centre
ORGANISERS CSIRO

WORKSHOP 12

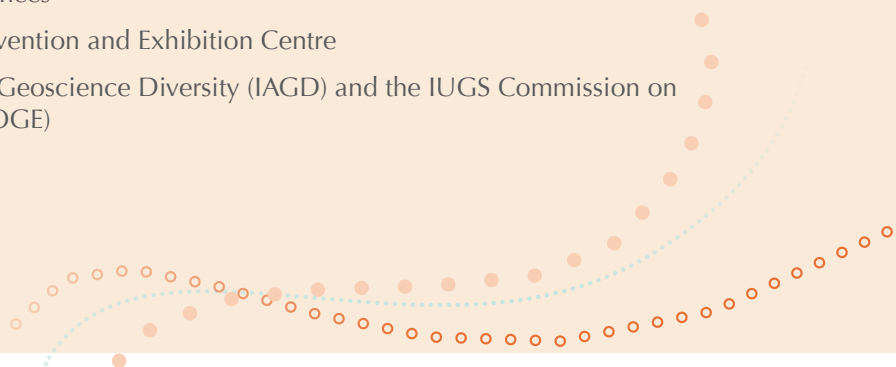
DATE Sunday 5th August 2012 **START TIME:** 9am
TITLE Application of Asd and Hylogging Spectral Data to Exploration and Mining: Getting it Right and Making it Work For Your Project Area.
LOCATION Room P 9, Brisbane Convention and Exhibition Centre
ORGANISERS AusSpec International

WORKSHOP 13

DATE Sunday 5th August 2012 **START TIME:** 9am,
perhaps continuing Monday 6th August (evening) **START TIME:** 7pm
TITLE Importance of Geoethics
LOCATION Brisbane Convention and Exhibition Centre - Sunday, 5 August - P 10;
Monday 6 August P 1
ORGANISERS AGID

WORKSHOP 30

DATE Sunday 5th August 2012 **START TIME:** 9am
TITLE Instructional Approaches to Access, Accommodation, and Inclusion for Students with Disabilities in the Geosciences
LOCATION Room P 11, Brisbane Convention and Exhibition Centre
ORGANISERS International Advisory for Geoscience Diversity (IAGD) and the IUGS Commission on Geoscience Education (COGE)



During Congress



WORKSHOP 14

DATE Monday 6th August 2012 (evening) **START TIME:** 7pm
TITLE Gplates: Free Software For Tectonic Reconstruction and Spatio-Temporal Data Analysis
LOCATION Room P 2, Brisbane Convention and Exhibition Centre
ORGANISERS The University of Sydney

WORKSHOP 15

DATE Monday 6 August 2012 (evening) **START TIME:** 7pm
TITLE 3D Geological Mapping And The Application In Geological Mineral Exploration
LOCATION Room M 6, Brisbane Convention and Exhibition Centre
ORGANISERS Chinese Academy Of Geological Sciences

WORKSHOP 16

DATE Monday August 6th 2012 **START TIME:** 7pm
TITLE Compilation And Interpretation Of Large Magnetic Anomaly Data Sets
LOCATION Room P 3, Brisbane Convention and Exhibition Centre
ORGANISERS Geological Survey of Finland

WORKSHOP 17

DATE Monday 6th **START TIME:** 7pm & Tuesday 7th August 2012 **START TIME:** 7pm
TITLE From the Solar Protuberance That Created the Earth to the Volcanic and Seismic Activity of Our Planet
LOCATION Brisbane Convention and Exhibition Centre - Monday 6 August - Room M 7; Tuesday 7 August - Room M 6
ORGANISERS Pencho Binev – member of the Union of Chemists in Bulgaria

WORKSHOP 18

DATE Monday 6th **START TIME:** 7pm, Tuesday 7th **START TIME:** 7pm & Thursday 9th August 2012 (evening) **START TIME:** 7pm
TITLE Principles Of Geological Heterogeneity With Applications
LOCATION Brisbane Convention and Exhibition Centre: Monday 6 August - Room M 8; Tuesday 7 August - Room M 8, Thursday 9 August - M 6
ORGANISERS ARAMCO

WORKSHOP 19

DATE Tuesday 7th August 2012 (evening) **START TIME:** 7pm
TITLE Standards For Education And Employment In The Geosciences – Global Issues In Program Accreditation And Professional Licensure
LOCATION Room M 4, Brisbane Convention and Exhibition Centre
ORGANISERS American Geological Institute & American Institute of Professional Geologists

WORKSHOP 20

DATE Thursday 9th August 2012 (evening) **START TIME:** 7pm
TITLE ICDP Primer: An Introduction To The International Continental Scientific Drilling Program
LOCATION Room M 1, Brisbane Convention and Exhibition Centre
ORGANISERS International continental scientific drilling Program ICDP



Post-Congress

WORKSHOP 21

DATE Saturday 11th August 2012 **START TIME:** 9am
TITLE Practical Stratigraphic Forward Modelling
LOCATION University Of Queensland
ORGANISERS CSIRO

WORKSHOP 22

DATE Saturday 11th August 2012 **START TIME:** 9am
TITLE 3D Mineral Mapping From Drill Core To Space
LOCATION Hotel George Williams 325 George St Brisbane
ORGANISERS CSIRO

WORKSHOP 24

DATE Friday evening 10th (icebreaker) Saturday 11th **START TIME:** 9am & Sunday 12th August 2012 **START TIME:** 9am
TITLE Asian Current Research On Fluid Inclusions IV (Acrofi)
LOCATION Friday 10th Aug: George Williams Hotel 325 George St Brisbane
Sat –Sun 11-12th Aug Queensland University Of Technology – Gardens Point Campus
ORGANISERS Geoscience Australia

WORKSHOP 25

DATE Monday 13th August 2012 **START TIME:** 9am
TITLE Lessons Learnt From Auditing Mineral Resource Estimates
LOCATION AMC Consultants Pty Ltd, Level 12, 179 North Quay, Brisbane.
ORGANISERS AMC Consultants Pty Ltd

WORKSHOP 26

DATE Tuesday 14th August 2012 **START TIME:** 9am
TITLE Assessment Of Geological Uncertainty In Mining And Management Of Risk
LOCATION AMC Consultants Pty Ltd, Level 12, 179 North Quay, Brisbane.
ORGANISERS AMC Consultants Pty Ltd





Queensland Museum

The founding collections of the Queensland Museum were collected in the 1870s. The current collection of fossils and minerals is an amalgamation of the Queensland Museum, Geological Survey of Queensland, Queensland University and James Cook University collections. The entire collection is now amongst the largest and most significant in the southern hemisphere.

Collections are primarily from Queensland's terrestrial and marine provinces, but there is also a substantial collection of comparative material from adjacent Indo-Pacific regions and a small amount of overseas material. It currently consists of over 7 million fossil specimens, 55,000 geological samples, 27,000 mineral samples, and type specimen holdings of nearly 10,000 primary types. It is the repository for the geological heritage of the state.

These are pivotal resources used to document tropical Australasian biodiversity of the past. They enable new knowledge of Queensland's recent and extinct biota and its geoheritage. They help us trace the evolution of many modern animal and plant groups through the last 500 million years. These collections are steadily growing as our inventory of the region's natural and mineralogical resources becomes more comprehensive.

Visiting the collections

Access to the Geoscience collection is by appointment only.

If you wish to visit the Geoscience Collections before, during or after the IGC, please complete the Queensland Museum Appointment Request Form (on the following page) and forward to geoscience.inquiry@qm.qld.gov.au or contact the geosciences unit by phone.

Where: The geoscience collection of the Queensland Museum is located at the Hendra Annexe, 122 Gerler Road, Hendra, Qld 4011.

(Hendra is situated in the Northern Suburbs of Brisbane, about 9 kms north of the city centre. Visitors wishing to use public transport can get a 301 bus from outside the Queensland Museum south bank to Hendra)

Contact Details: Ph: +617 3406 8350; fax: +617 3406 8355

Enquiries: geoscience.inquiry@qm.qld.gov.au

Appointment Request Form

Researchers Name:

Affiliation and/or Institution:

Institution Address:

Email address:

Research Interest:

Please provide specific details of material that you wish to study; i.e. title of paper, and/or registration numbers of specimens:

Please indicate by ticking which day and time/s you wish to visit

Pre IGC Conference

	Morning (9.00 am-12.30 pm)	Afternoon (1.30 pm-5.00 pm)
Monday 30 July 2012		
Tuesday 31 July 2012		
Wednesday 1 August 2012		
Thursday 2 August 2012		
Friday 3 August 2012		

During IGC Conference

	Morning (9.00 am-12.30 pm)	Afternoon (1.30 pm-5.00 pm)
Monday 6 August 2012		
Tuesday 7 August 2012		
Wednesday 8 August 2012		
Thursday 9 August 2012		
Friday 10 August 2012		

Post Conference

	Morning (9.00 am-12.30 pm)	Afternoon (1.30 pm-5.00 pm)
Monday 13 August 2012		
Tuesday 14 August 2012		
Wednesday 15 August 2012		
Thursday 16 August 2012		
Friday 17 August 2012		

Plenary Speakers

Distinguished invited speakers will give presentations on major contemporary themes in the geosciences in Plenary sessions will be held each day (Monday to Friday) from 11.00am to 12.00 noon in the Great Halls 1 & 2 at the convention centre. These sessions will also be broadcast live into Great Halls 3 and 4.

Plenary Session 1: Resourcing Tomorrow: Meeting the needs of a growing population

Monday, 6 August, 11.00am to 12 noon, Great Halls 1 & 2

This plenary will review the future demand and availability of groundwater and mineral resources. By 2050 the world's population will exceed 9 billion with well over half living in urban areas. This will require more natural resources, especially minerals and energy than used in the past, and present challenges for the discovery of resources and new extraction technologies. Population growth is likely to lead to a shortage of water in many parts of the world: water security is already shaping up as a major challenge for many countries as a consequence of climate change and a decline in groundwater resources through over use. This has profound implications for human health, global food security, and the environment.

Mr XU Shaoshi (China)



Mr XU Shaoshi has been Minister of Land and Resources and Chief Supervisor of State Land of the People's Republic of China since 2007. He majored in hydrogeology and engineering geology at Changchun College of Geology and holds a Master's Degree in Economics.

From 1980-1993, he held a series of senior positions within China's Ministry of Geology and Minerals. He then joined the State Council, becoming Deputy Secretary-General in 2000.

Marcio Luis Silva GODOY (Brazil)



Marcio has a wealth of experience in the mineral industry, having acted in a variety of roles related to mineral exploration, mineral project development, project implementation and operations in several countries, including Brazil, Chile, Zambia, DRC and Suriname. Marcio has joined Vale in 2002 becoming the head of copper operations and copper project development. Since 2010, Marcio holds the title of Head of Global Exploration and Mineral Project Development, being responsible to foster the company growth and mineral and geographical diversification through the development of greenfield mineral projects. In this role, Marcio oversees all of the Company's greenfield exploration project portfolio, exploration strategy, early stage project development and mineral and exploration

technology. Vale develops an aggressive worldwide multi-commodity exploration program, being present in 25 countries.

Marcio holds a BSc and a MSc in Geology from Universidade Estadual Paulista (UNESP), São Paulo, Brazil. He currently serves as a director in several boards of mining companies. He is also a member of the board of Vale Foundation, Vale's arm responsible for the sustainable development initiatives in areas in which Vale is active in Brazil and overseas.

Steve GORELICK (USA)



Professor Steven Gorelick runs the Global Freshwater Initiative at Stanford University where he is the Cyrus F. Tolman Professor in the Department of Environmental Earth System Science and a Senior Fellow in the Woods Institute for the Environment. One of his major research focus areas is analysis of water-supply sustainability in developing nations, including multi-year projects in Mexico, India, and Cambodia/Vietnam that have evaluated urban-agricultural competition for surface water and groundwater resources. He is an AGU and GSA Fellow, received fellowships from both the Guggenheim and Fulbright Foundations, and produced over 100 publications, three patents, and three books.

Plenary Session 2: Energy in a carbon-constrained world

Tuesday, 7 August, 11.00 to 12 noon, Great Halls 1 & 2

The plenary will briefly review the drivers for change to low-carbon energy future and examine the range of energy sources potentially available but with particular focus on the geo-sources of energy (fossil fuels, geothermal, nuclear, hydro). The plenary will consider the resource base, accessibility, extraction and use, technological and other limitations, and the environmental impacts of use of the various energy sources available now and in the medium term.

Lord Ron OXBURGH (UK)



Lord Ron Oxburgh, House of Lords UK Parliament, served as chairman of The Shell Transport and Trading Company until its unification with Royal Dutch Petroleum. He is a member of the House of Lords of the UK Parliament and a graduate of the Universities of Oxford and Princeton. He has taught geology and geophysics at the Universities of Oxford and Cambridge and was a visiting professor at Stanford University, the California Institute of Technology and Cornell University. From 1988 to 1993, Lord Oxburgh was Chief Scientific Adviser to the UK Ministry of Defence and, from 1993 to 2001, Rector of Imperial College, London. He has served as President of the Geological Society of London and of the European Union of Geosciences. He is a member of the Advisory Committee on Science, Technology and Research for Singapore, a Fellow of the Royal Society, an Honorary Fellow of the Royal Academy of Engineering, and a Foreign Member of the Australian Academy of Science. He is currently an advisor on environment and energy to the Government of Singapore, Climate Change Capital and Deutschebank.

Scott TINKER (USA)



Scott W. Tinker is Director of the Bureau of Economic Geology, the State Geologist of Texas, Director of the Advanced Energy Consortium, a Professor holding the Allday Endowed Chair and acting Associate Dean of Research in the Jackson School of Geosciences at the University of Texas at Austin. Scott spent 17 years in the oil and gas industry prior to coming to UT in 2000. Scott is past President of the American Association of Petroleum Geologists (AAPG), past president of the Association of American State Geologists, and current president of the Gulf Coast Association of Geological Societies. Tinker has been a Distinguished Lecturer for the AAPG and Society of Petroleum Engineers, a Distinguished Ethics Lecturer for the AAPG, and is the current GSA Halbouty Distinguished Lecturer. Tinker is a Fellow of the Geological Society of America, holds appointments on the National Petroleum Council, the Interstate Oil and Gas Compact Commission and several private, professional, and academic advisory boards; and has won best paper awards in two major journals. Tinker's passion is building bridges between academia, industry and government and towards the end he has given nearly 500 invited and keynote lectures, visited over 45 countries, and most recently produced and is featured in the acclaimed documentary film on global energy, *SWITCH*. Tinker's degrees are from the University of Colorado (Ph.D.), the University of Michigan (MS), and Trinity University (BS).

Sally BENSON (USA)



Professor Sally M. Benson is Director of the Global Climate and Energy Project in the Department of Energy Resources Engineering at Stanford University. She has worked at Lawrence Berkeley National Laboratory in a number of capacities, including Division Director for Earth Sciences, and Deputy Director for Operations. She gained her PhD from the University of California, Berkeley. A ground water hydrologist and reservoir engineer, Prof. Benson investigates the fundamental characteristics of carbon dioxide storage in geologic formations as a means of climate change mitigation and other issues related to energy and the environment, including technologies and energy systems for a low-carbon future. She was a coordinating lead author on the 2005 Intergovernmental Panel on Climate Change

(IPCC) Special Report on Carbon Dioxide Capture and Storage and is the author or co-author of over 160 scientific publications.

Plenary Session 3: The Earth and Man: Living with a restless Earth

Wednesday, 8 August, 11.00am to 12 noon, Great Halls 1 & 2

An increasing proportion of the world's population, especially in developing countries, are potentially at risk from natural hazards. This plenary will examine how man's interaction with the Earth's natural processes has shaped human society and how man has adapted to living in close proximity to natural hazards such as volcanoes, earthquakes, tsunami and floods. The speakers will also review the impact of past major geological disasters on human society and progress in assessing and mitigating the risk of geological hazards, especially in relation to major cities. The plenary will also consider man's impact on the geosphere, biosphere and the landscape, and our potential role in increasing society's vulnerability to natural hazards.

Iain STEWART (UK)



Professor Iain Stewart is a geologist and broadcaster who holds a chair in Geoscience Communication at Plymouth University, UK. After presenting several major BBC television series about the planet (Journeys from the centre of the Earth; Journeys into the Ring of Fire; Earth: The Power of the Planet; Earth: The Climate Wars, How Earth Made Us), his most recent programmes explore his own backyard, with an environmental history of Scotland (Making Scotland's Landscape) and a celebration of the Scottish pioneers of geology (Men of Rock). His latest landmark BBC series examines how plants have helped shape Earth's history.

Renato SOLIDUM Jr (Philippines)



Dr. Renato U. Solidum, Jr. is a geologist and obtained his Ph.D in Earth Science from University of California, San Diego. He is currently the Director of the Philippine Institute of Volcanology and Seismology (PHIVOLCS), the Philippine government organisation mandated to monitor and warn, assess hazards and risk, conduct research and development, and formulate awareness and preparedness plans to events related to volcanoes, earthquakes and tsunami. He leads PHIVOLCS involvement in inter-organisational activities related to disaster risk reduction of the Philippines, including multi-hazards and risk assessment and community preparedness.

Plenary Session 4: What does the geological record tell us about the Earth's past climates in relation to projected climate change?

Thursday, 9 August, 11.00am to 12 noon, Great Halls 1 & 2

This plenary will overview the current data and projections relating to global climate change and examine the evidence from the geological record of past climate change. It will consider rates of climate change, sea levels, CO₂ levels and temperatures, geosphere-biosphere feedbacks and climate sensitivities, and explore what this might mean for the Earth's climate in the future.

Tim NAISH (New Zealand)



Professor Tim Naish is Director of the Antarctic Research Centre at Victoria University of Wellington and Principal Scientist at the New Zealand Crown Research Institute, GNS Science. He is a paleoclimatologist focussed on reconstructing past global sea-level changes from continental margin geological records. He has participated in 9 expeditions to Antarctica and helped found ANDRILL, an international Antarctic Geological Drilling Program. He was cochief scientist of ANDRILL's McMurdo Ice Shelf Project which recovered sediment cores documenting the first direct evidence that the West Antarctic Ice Sheet had collapsed the last time the world was 2-3°C warmer, 3-5 million years ago. He is currently a Lead Author on the Intergovernmental Panel of Climate Change's 5th Assessment Report.

Will STEFFEN (Australia)



Professor Will Steffen is Executive Director of the ANU Climate Change Institute at the Australian National University (ANU), Canberra, and serves on the Multi-Party Climate Change Committee (MPCCC) and as a Climate Commissioner. He is also Co-Director of the Canberra Urban and Regional Futures (CURF) initiative, a joint venture of ANU and the University of Canberra. From 1998 to mid-2004, Steffen served as Executive Director of the International Geosphere-Biosphere Programme, based in Stockholm, Sweden. His research interests span a broad range within the fields of climate change and Earth System science, with an emphasis on incorporation of human processes in Earth System modelling and analysis; and on sustainability and climate change, with a focus on urban systems.

Plenary Session 5: Digital Earth - The information explosion

Friday 10 August, 11.00am to 12 noon, Great Halls 1 & 2

This plenary will overview the digital revolution and explosion of information shaping the future direction and application of the earth sciences. Rapid advances in real time monitoring and measurement, web technologies and in data transfer are making geological and geospatial data increasingly global, accessible and instantaneous, and therefore useful for purposes beyond which they were originally collected. This expanded information base, coupled with increased understanding of global geological processes, is becoming increasingly vital to governments and the global community at large. Topics include remote sensing; 4-D geology, with GPS networks contributing to the fourth dimension; geohazards and environmental monitoring; regional and global scale geophysical datasets; and 3-D geological mapping.

Thomas CUDAHY (Australia)



Dr Tom Cudahy is the Director of the Western Australian Centre of Excellence for 3D Mineral Mapping. He has over 25 years of research experience with CSIRO in Perth in developing optical remote and proximal technologies for mineral resources exploration and development, especially hyperspectral mineral mapping at visible to thermal infrared wavelengths. Tom has led numerous national and international collaborative research projects and been involved with international science teams, including ASTER and Hyperion. His 2020 vision is a public, web-accessible 3D mineral map of Australia (and beyond) based on a new generation of satellite, airborne, field and drill-core logging hyperspectral technologies.

Kristine ASCH (Germany)



Dr Kristine Asch, a geologist, heads the Geological Information Systems and Maps unit at the Federal Institute for Geosciences and Natural Resources (BGR). She is Chair of the IUGS Commission of Geoscience Information, leads the Europe Subcommission of the Commission of the Geological Map of the World, and coordinates building the Geoscience Information in Africa (GIRAF) network. Kristine authored the 1:5 Million International Geological Map of Europe and Adjacent Areas. Through her roles in the German Geoscience INSPIRE Expert Group and the EU data specifications team and working group on geology and mineral resources, and related publications, Kristine has been closely associated with the development and dissemination of a new web language for geology, which allows nations to share data with each other and the public.

Ken GLEDHILL (New Zealand)



Ken Gledhill is the GeoNet Project Director at GNS Science in Wellington, New Zealand. GeoNet is New Zealand's geological hazards monitor system employing state of the art equipment and telecommunications technology. He is also chair of the governance group for the Pacific Tsunami Warning and Mitigation System (ICG/PTWS). Ken is a scientific project manager, seismologist, scientific instrumentation and telecommunications specialist with more than 30 years' experience. His research has concentrated on geophysical instrumentation, the field studies of large earthquakes, and the study of the deep structure beneath New Zealand and internationally using the seismic waves generated by earthquakes.

Overview Program

TIME	SUNDAY 5 th AUGUST 2012	MONDAY 6 th AUGUST 2012	TUESDAY 7 th AUGUST 2012	WEDNESDAY 8 th AUGUST 2012	THURSDAY 9 th AUGUST 2012	FRIDAY 10 th AUGUST 2012
0830-0900	Professional Development Workshops IUGS Meetings		Symposia Session 1	Symposia Session 1	Symposia Session 1	Symposia Session 1
0900-1030		OPENING CEREMONY				
1030-1100		BREAK	BREAK	BREAK	BREAK	BREAK
1100-1200		Plenary Session 1: <i>Resourcing Tomorrow</i>	Plenary Session 2: <i>Energy in a carbon constrained world</i>	Plenary Session 3: <i>The Earth and man: Living with a restless Earth</i>	Plenary Session 4: <i>The geological record in relation to potential climate change</i>	Plenary Session 5: <i>Digital earth – the information explosion</i>
1200-1300		LUNCH	LUNCH	LUNCH	LUNCH	LUNCH
1300-1500	Registration	Symposia Session 1	Symposia Session 2	Symposia Session 2	Symposia Session 2	Symposia Session 2
1500-1515		BREAK	BREAK	BREAK	BREAK	BREAK
1515-1530						Symposia Session 3
1530-1700		Symposia Session 2	Symposia Session 3	Symposia Session 3	Symposia Session 3	
1700-1715						
1715-1730		Closing Ceremony & Farewell Drinks				
1730-1800						
1800-1830	Congress Welcome Reception 6pm-8pm	Poster Session & Happy Hour	Poster Session	Poster Session	Poster Session	
1830 onwards		Public Lecture 1: 6.30–7.30pm <i>Prof. Steve Gorelick</i>	Public Lecture 2: 6.30–7.30pm <i>Prof. Iain Stewart</i>	International Resource Ministers Forum 5.30-7.30pm	Geological Society of Australia Awards	
		IUGS awards		Feature movie: <i>Switch</i> 5.45pm – 7.30pm		
		Business meetings	Business meetings	Business meetings	Business meetings	
				Congress Dinner 7.30pm onwards		

Symposia Schedule

		TIME	MONDAY		TUESDAY		WEDNESDAY		THURSDAY		FRIDAY		
SYMPOSIUM	TITLE		1300-1500	1530-1730	0830-1030	1300-1500	1530-1730	0830-1030	1300-1500	1530-1730	0830-1030	1300-1500	1515-1700
THEME 1													
1.1	Geoscience for Society									BA	BA	BA	BA
1.2	Geoheritage, geoparks and geotourism												
1.3	Geoscience education												
1.3	Geoscience outreach (public communication, museums and media)				A2	A2	A2	A2	A2				
1.4	Forensic Geoscience		P7										
1.5	Gemstones										TR	TR	
1.6	Strengthening communication between fundamental and applied geosciences and between geoscientists and public [European Federation of Geologists]		A2	A2									
THEME 2													
2.1	Improving rural health and mitigating rural poverty through sustainable ground water development		HL2	HL2									
2.2	Social awareness, geoplanning and and capacity-building for development and mitigation of geohazards						HL2						
2.3	Developing geoscience education and awareness for the benefit of society											HL2	HL2
2.4	Geoethics												
2.5	Mineral and energy resources, construction and industrial minerals and the role of women in resource development				HL2	HL2							
2.6	The role of Geological Surveys in the development and management of natural resources, groundwater and disaster risk reducti										B3	B3	
THEME 3													
3.1	Climate Change: Lessons from Past; Implications for Future			B1									
3.2	Climate variability in the Holocene												
3.2	Geology and Archaeology: submerged landscapes of the continental shelf									B1	B1		
3.3	Monsoons, droughts and extreme weather events: deciphering climate variability from the geological record												

SYMPOSIUM	TITLE	TIME		MONDAY		TUESDAY		WEDNESDAY		THURSDAY		FRIDAY		
		1300-1500	1530-1730	1300-1030	1300-1500	0830-1030	1300-1500	0830-1030	1300-1500	0830-1030	1300-1500	0830-1030	1300-1500	1515-1700
THEME 6	Energy in a Carbon Constrained World													
6.1	CO2 geosequestration <i>Sponsored by CO2 CRC</i>	M1	M1	M1	M1	M1								
6.2	Geothermal resources <i>Sponsored by CO2 CRC</i>							M1	M1	M1				
6.3	Nuclear energy and waste disposal <i>Sponsored by CO2 CRC</i>									P5	P5	P5		
6.4	Clean energy: options and limitations <i>Sponsored by CO2 CRC</i>											P5		
THEME 7	Mineral Resources and Mining													
7.1	New age metals: the geology and genesis of ores required for a changing economy and a carbon constrained world [Society for Geology Applied to Mineral Deposits (SGA)]							M2	M2	M2				
7.2	Future sources of industrial minerals and construction materials				M2	M2								
7.3	Resource and reserve reporting, international codes and the valuation of mineral assets									M9	M9			
7.4	Resource modelling, estimation and visualisation for project and mine development												B1	
7.5	Mining geology, technology, geophysics and geometallurgy <i>Sponsored by Surtron</i>				P3	P3	P3							
7.6	The future mine and geoscience	P3	P3											
7.7	Qualitative and quantitative methods of assessing undiscovered mineral resources									M9				
THEME 8	Mineral Exploration Geoscience													
8.1	Footprints of mineralised systems; new concepts and data for exploration <i>Sponsored by Rio Tinto</i>			M2	GH3	GH3								
8.2	The science of exploration targeting <i>Sponsored by Newcrest Mining</i>											M4	1245 start	M4
8.3	Probing the Earth from near-surface to the mantle - techniques, modelling software and case histories to aid mineral exploration							GH3	GH3	GH3				
8.4	Advances in geochemical exploration									M2	M2			

8.5	Exploration and discovery: diagnosis and prognosis - are we in need of cure? [Society for Geology Applied to Mineral Deposits (SGA)]	M2	M2																
THEME 9	Mineral deposits and Ore-forming Processes																		
9.1	Orogen to district-scale structural and tectonic controls on porphyry and epithermal deposits																		
9.2	Volcanic and basin-hosted ores (Fe, Zn-Pb, Cu, U)																		
9.3	Dating of ore deposits																		
9.4	Iron oxide copper-gold (IOCG) deposits; the unhappy family																		
9.5	Sediment and/or greenstone-hosted gold [Society of Economic Geologists]																		
9.6	Global sulfur cycle and impact on metallogenesis																		
9.7	Mineral deposits: episodes, accumulation of metals and related geodynamic processes in China and adjacent regions [IAGOD / IGCP-592]																		
9.8	Regional metallogeny, ore genesis and other mineral deposits																		
9.9	Giant and super giant orebodies [Society of Economic Geologists] <i>Sponsored by Rio Tinto</i>																		
THEME 10	Coal: a Myriad of Resources																		
10.1	Finding resources, making reserves <i>Sponsored by Rio Tinto</i>																		
10.2	Coal - a record of change																		
THEME 11	Petroleum Systems and Exploration																		
11.1	Petroleum prospectivity of divergent and transform passive margin basins of North and South Atlantic, Arctic, India and Australasia																		
11.2	Pacific rim petroleum system architecture																		
11.3	Petroleum system modelling; geochemistry, basins and source rock																		
11.4	Petroleum reservoir modelling, seals and enhanced oil recovery (EOR)																		
11.5	Petroleum exploration in frontier basins																		
11.6	Putting the geo into geophysics - adding clout through better datasets and joint interpretation																		

SYMPOSIUM	TITLE	MONDAY		TUESDAY		WEDNESDAY		THURSDAY		FRIDAY		
		1300-1500	1530-1730	0830-1030	1300-1500	1530-1730	0830-1030	1300-1500	1530-1730	0830-1030	1300-1500	1515-1700
THEME 12	Unconventional Hydrocarbons - Emerging Fuels											
12.1	Coal seam gas <i>Sponsored by QGC</i>			M4	M4	M4						
12.2	Shale and tight gas					M4	M4	M4				
12.3	Gas hydrates	M4	M4									
12.4	Heavy oil and oil shale							M4				
THEME 13	Sedimentation and Sedimentary Processes											
13.1	Continental depositional systems	BR	BR									
13.2	Deposits of coastal and shallow marine systems			P2	P2	BR						
13.3	Deepwater sedimentation					BR						
13.4	Depositional controls on reservoirs							BR				
13.5	Applied ichnology									P3		
13.6	Sedimentation in icehouse versus greenhouse epochs										B3	B3
13.7	Modelling sedimentary systems										B3	
13.8	Global controls on sediment accumulation										P10	
13.9	River-dominated shelf sediments in Asian seas								BR	BR		
THEME 14	Basin Formation and Continental Margin Processes											
14.1	Linking multiple scales of deformation for basin modelling		P6	P6								
14.2	Convergent margin sedimentary basins			P6	P6	P6						
14.3	Divergent and transform passive margins: observations, imaging and case studies						P6	P6	P6			
14.4	Passive to hyper-extended continental rift margins in the geological record: their recognition, diagnostic elements and comparison with present-day analogues								P6	P6		
THEME 15	A Dynamic Earth											
15.1	Plate tectonics, plate-mantle coupling and associated deformation	GH12	GH12	GH12	GH12							
15.2	Large asteroid impacts and crustal evolution								P8	P8	P8	P8
15.3	Evolution and dynamics of the Indo-Australian Plate										BR	BR

SYMPOSIUM	TITLE	TIME		MONDAY		TUESDAY		WEDNESDAY		THURSDAY		FRIDAY		
		1300-1500	1530-1730	0830-1030	1300-1500	0830-1030	1300-1500	1530-1730	0830-1030	1300-1500	1530-1730	0830-1030	1300-1500	1515-1700
THEME 20	Planetary Sciences													
20.1	Terrestrial Planets and Habitability									M5				
20.2	Radar in planetary exploration									M5	M5			
20.3	Lunar research and exploration in the 21st century												A2	
THEME 21	Magmatism - Settings, Compositions and Processes													
21.1	Felsic magmas: petrogenesis to metallogenesis									P9	P9			
21.2	Granite versus orogenic style												P6	
21.3	Subduction zone magmatism including a special session on magmatism in the SW Pacific					P9	P9							
21.4	Magmatism in extensional environments (continental rifts and MORB)	P9	P9											
21.5	Intraplate magmatism, including ocean island basalts, continental basalt provinces, kimberlites and lamproites							P9	P9					
21.6	Large Igneous Provinces and their impact on the lithosphere, atmosphere and biosphere												P9	
THEME 22	Metamorphic Rocks and processes													
22.1	From ocean floor to subduction zone metamorphism	P10	P10											
22.2	Rates of metamorphic processes												P10	P10
22.3	Mechanisms of metamorphic reactions and fluid-rock interaction				P10	P10	P10							
22.4	Quantification of extreme metamorphism and implications for tectonics									P10	P10	P10		
22.5	Anatexis							P10	P10					
22.6	Accessory phases and trace elements in metamorphic processes								P10				P7	
THEME 23	Evolution of the Biosphere													
23.1	Martin Glaessner Symposium: The Ediacaran and the Cambrian Explosion			M5/6	M5/6	M5/6								
23.2	General Palaeontology											QMT	M5/6	M5/6

SYMPOSIUM	TITLE	MONDAY		TUESDAY		WEDNESDAY			THURSDAY		FRIDAY	
		1300-1500	1530-1730	0830-1030	1300-1500	1530-1730	0830-1030	1300-1500	1530-1730	0830-1030	1300-1500	1515-1700
THEME 29	Surficial Processes and Landscape Evolution											
29.1	Landscape response to climate change: quantifying present and ancient rates of Earth-surface processes			B2	B2							
29.2	Karst: processes, environments and paleoenvironmental records (IGCP/SIDA 598)	B2	B2									
29.3	Regolith/landform evolution								A1	A1		
29.4	Deep weathering through deep time: regolith processes and ore deposits					P3	P5					
THEME 30	Geohazards											
30.1	Subaerial and submarine landslide hazards [IGCP585]	SR	SR	SR	SR							
30.2	Natural hazards and climate change					SR		SR	SR			
30.3	Improving the interaction between natural/physical and social sciences to increase the effectiveness of natural disaster risk reduction										B2	B2
30.4	Geohazards in subduction zones							MS1	MS1			
30.5	Geohazard risk analysis: the state of the art								PT	PT		
30.6	Earth monitoring for improved forecasting of natural hazards				MS1		MS1					
30.7	Advances in Earthquake Hazard Assessment	MS1										
THEME 31	Engineering Geology and Geomechanics											
31.1	Engineering geological challenges for our ever growing cities	P4	P4									
31.2	Engineering geology in major infrastructure developments		M7/8	M7/8								
31.3	Engineering geology in mining					P4	P4					
31.4	Engineering geology in managing risk from geohazards and impacts of climate change										P4	P4
31.5	Improving the development of geological models for engineering studies				B2							
31.6	Interaction of engineering geology and geomechanics								P4	P4		
THEME 32	Geoscience Information from Proximal and Remote Sensing Technologies											
32.1	Mineral exploration					TR		TR		TR		

SYMPOSIUM		TITLE	MONDAY		TUESDAY		WEDNESDAY		THURSDAY		FRIDAY	
THEME 36			Regional, Thematic and Specialist Symposia									
36.1	Environmental change and ancient societies [IGCP 567, INQUA 0501 and IGCP 521]							BA				
36.2	Environmental change and sustainability in karst systems: relations to climate change and anthropogenic activities (2011-2016) [IGCP/SIDA Project 598]		B1									
36.3	Greater Altai – a unique rare-metal-gold-polymetallic province in Central Asia [National Committee of Kazakhstan Geologists]									M1	M1	
36.4	Geoscience challenges in the 21st century: an early-career perspective [YES Network]								P2		M4	
36.5	Inclusions in minerals [International Mineralogical Association Working Group on Inclusions in Minerals]								TR		A1	
36.6	Minerals and related phases								P5			
36.7	Geoscience research and concepts from Asia and environs				P7	P7						
THEME 37			Alternative Concepts									
37.1	Expanding Earth (Sam Carey Memorial)											P2
37.2	Pursuit of a new global geodynamic paradigm										M6	HL1
Other Major Forums												
F1	Young Earth Scientists (YES) Congress											A2
F2	International GeoSurveys' Forum: Applying geoscience to address the world's major challenges (by invitation)				BR	BR						
F3	Global Geoscience Initiative									P1		
F4	Earth Science Matters - successor to the International Year of Plane Earth (IYPE)			P2								

Monday Program

MONDAY 6 AUGUST 0900 - 1300

0900 - 1030	OPENING CEREMONY
1030 - 1100	BREAK
1100 - 1200	<i>Plenary Session 1: Resourcing Tomorrow: Meeting the needs of a growing population</i> Great Halls 1 & 2 Chair: Dr Neil Williams (Australia) Minister Shaoshi Xu (China) Mr Marcio Luis Silva Godoy (Brazil) Professor Steve Gorelick (USA)
1200 - 1300	LUNCH

MONDAY 6 AUGUST 1300 - 1500

1.4 - Session 1 - Forensic geoscience: Criminal and Environmental

1300 - 1530 Plaza Meeting Room 7

Time		
1300	#1000	<i>Recent advances in search and the geological (trace) evidence aspects of forensic geology for police and law enforcement investigations</i> Laurance Donnelly (Keynote)
1330	#1001	Forensic geosciences - a reintroduced 'species' for forensic science laboratories James Robertson (Invited)
1345	#1002	Key aspects relating to land searches for shallow burial items Mark Harrison (Invited)
1400	#1003	Spatial sampling approaches in forensic geosciences: critique, challenges and case studies Jennifer McKinley
1415	#1004	Forensic Palynology - its value to criminal investigation Dallas Mildenhall
1430	#1005	Some recent case studies in forensic geology in Tasmania Ralph Bottrill (Invited)
1445	#1006	Forensic geoscience examinations using advanced laboratory source and synchrotron X-ray diffraction techniques Robert Fitzpatrick
1500	#1007	Catahoula Basin, Louisiana: Floodplain or Lake in 1812? George C. Flowers
1515	#1008	The Diamond "DNA" Project Emiliano Oliveira

1.6 - Session 1 - Framing the Issue: Academia - Industry Linkages, some examples

1300 - 1500 Arbour Meeting Room 2

Time		
1300	#1009	<i>Facilitating integration between fundamental and applied geosciences</i> Peter Bobrowsky (Keynote)
1330	#1010	<i>Earth sciences academic community involvement in the regulated profession of geoscience - Canada's win-win outcome: graduate advancement and competent practitioners.</i> Oliver Bonham (Keynote)
1400	#1011	Linking University Research with Industry; a Two-Way Communication for Maximum Benefit Ross Large
1415	#1012	The South Australian PACE Initiative: An Example of Government-Industry-University Applied Geoscience Partnerships Martin Fairclough

MONDAY 6 AUGUST 1300 - 1500 continued

1430	#1013	Starting out professionally: students and classified programs in geosciences Wayne Pennington (Keynote)
2.1 - Session 1 - Ground Water Management for Improving rural health and mitigating rural poverty 1300 - 1500 GeoExpo Hospitality Room 2		
Time		
1300	#1014	Importance of Sustainable Management of Ground Water Through Watershed Development and Percolation Tanks in Semi-Arid Basaltic Terrain in Western India - Role of UNESCO-IUGS-IGCP Project "GROWNET". Shrikant Daji LIMAYE (Keynote)
1330	#1015	Assessment of groundwater quality of Banki subdivision, Cuttack district, Orissa, India Madhumita Das
1345	#1016	Village water budgeting: An effective tool of community preparedness to mitigate water scarcity Bhagyashri Maggirwar
1400	#1017	Role of rainwater harvesting structures in sustainability of groundwater based drinking water sources in hard rock terrain Bhavana Umrikar
1415	#1018	The study on The application of 2D Electrical Resistivity Imaging Array to determine depth and distribution of shallow aquifer in Managed Aquifer Recharge (MAR) Project in Ban Nong Khao Kuai, Phitsanulok, Thailand. Ocpasorn Occarach (Invited)
1430	#1019	Shallow-Aquifer Determination for Managed Aquifer Recharge, Application of 2D Electrical Resistivity Imaging Array Ocpasorn Occarach
1445	#1020	The effect of Main Drain and Al-Dalmaj lake water salinity on the soil salinity /Middle Iraq Moutaz Al-Dabbas
5.1 - Session 1 - OneGeology and National Geoscience Information Systems Sponsored by IHS Global Limited 1300 - 1500 Boulevard Meeting Room 3		
Time		
1300	#1021	OneGeology Web Services: progress and enhancements Tim Duffy
1315	#1022	OneGeology backstage - the technical viewpoint Francois Robida
1330	#1023	Updates to the Swedish OneGeology services and future improvements Lars Kristian Stölen
1345	#1024	Geological map for the CIS countries territory at 1:1,000,000 scale in OneGeology international project Grigory Brekhov
1400	#1025	OneGeology 6 years on - has it delivered its promises? Ian Jackson (Keynote)
1430	#1026	The "Référentiel Géologique de la France", a new geological national program for France Didier Bonijoly
1445	#1027	Database of the State geological maps for the territory of Russia and its continental shelf Victor Snezhko

MONDAY 6 AUGUST 1300 - 1500 continued

5.6 - Session 1 - Crystallographic Preferred Orientation and Anisotropy of Rocks

1300 - 1500

Boulevard Auditorium

Time		
1300	#1028	Calculation of anisotropic physical properties using the MTEX open-source toolbox David Mainprice
1315	#1029	Calculation of seismic velocity in serpentinites: importance of grain shape of antigorite Tohru Watanabe
1330	#1030	<i>Mantle wedge olivine or subducting slab serpentinite: what is responsible for supra-subduction zone seismic anisotropy?</i> Steven Reddy (Keynote)
1400	#1031	The anisotropy of magnetic susceptibility in fine-grained, siliciclastic natural and experimental rocks: a critical assessment of its relationship to tectonic strain Manuel Sintubin
1415	#1032	Topotaxial growth of olivine and the formation of b-type CPO Simon Wallis
1430	#1033	The development of CPO by single slip Bruce Hobbs
1445	#1034	Mantle deformation during rifting in East African (Marsabit - Kenya) Mary-Alix Kaczmarek

6.1 - Session 1 - Storage 1 Sponsored by CO2 CRC

1300 - 1500

Mezzanine Room 1

Time		
1300	#1035	CO ₂ Storage capacity of the Basal Aquifer that underlies the Prairies region of Canada Stefan Bachu (Invited)
1315	#1036	Evaluation of the potential sites for geological storage of CO ₂ in Saskatchewan Mohammad Derakhshanfar
1330	#1037	Carbon dioxide-rich coals of the Oaky Creek area, central Bowen Basin: a natural analogue for carbon sequestration in coal systems Suzanne Golding
1345	#1038	First assessment of carbon capture and geological storage potential in Morocco Abdelkrim Rimi
1400	#1039	Storage of CO ₂ offshore Norway Eva Halland
1415	#1040	<i>The Gorgon Carbon Dioxide Injection Project - From Concept to Reality</i> Mark Trupp (Keynote)

7.6 - Session 1 - The future mine and geoscience

1300 - 1500

Plaza Meeting Room 3

Time		
1300	#1041	World mining production till 2025 Irina Egorova
1315	#1042	<i>Really Remote Geoscience: In Situ Planetary Exploration Using Autonomous Robots</i> Alberto Elfes (Keynote)
1345	#1043	Geological factors affecting a future autonomous, narrow, tabular ore-body miner in South Africa George Henry
1400	#1044	The future of narrow reef mining in South Africa Jeannette McGill
1415	#1045	Russia on the world markets of raw materials - long-term outlook Anatoly Stavskiy

MONDAY 6 AUGUST 1300 - 1500 continued

8.5 - Session 1 - Exploration and discovery: diagnosis and prognosis -- are we in need of cure? [Society for Geology Applied to Mineral Deposits (SGA)]

1300 - 1500

Mezzanine Room 2

Time		
1300	#1046	<i>Recent trends in copper exploration - are we finding enough?</i> Richard Schodde (Keynote)
1330	#1047	'Real Life' Mineral Exploration in Mongolia Trevor Ellice
1345	#1048	Territorial ecological planning and soil mining aptitude. The case of the Baja California Peninsula, Mexico Eduardo Flores Campos
1400	#1049	Adaptive management as the basis of an effective development for low-investigated oil and gas regions Dmitriy Milyaev
1415	#1050	Gold mineral potential of Russia Boris Benevolskiy

9.3 - Session 1 - Dating of Ore Deposits

1300 - 1500

Great Hall 4

Time		
1300	#1051	Late Paleozoic tectonics, magmatism and metallogenesis and Late Mesozoic Exhumation of Balkhash – West Junggar metallogenic belt in Central Asia Xuanhua Chen
1315	#1052	Mesozoic magmatism and its metallogenesis related to destruction of the North China Craton: Evidence from the Mujicun porphyry Cu-Mo deposit in Taihang Mt., China Guochen Dong
1330	#1053	Secular evolution of lead isotope of Mississippi Valley-type deposits Mahmoud Fard
1345	#1054	Geochronology of gold, magmatism, and metamorphism at the Lupa goldfield, SW Tanzania Christopher Lawley
1400	#1055	Age of the Neoproterozoic Urucum deposit through hematite dating Thiago Piacentini
1415	#1056	Geochronology of the Olympic copper-gold province, eastern Gawler Craton, South Australia Anthony Reid
1430	#1057	Timing of intrusions and associated skarn deposit in the southeast Hubei Province, Middle - CLower Yangtze River belt (MLYRB), East China and its tectonic implication Guiqing Xie

9.9 - Session 1 - Giant & super giant orebodies Sponsored by Rio Tinto

1300 - 1500

Great Hall 3

Time		
1300	#1058	<i>Discovery of the high-grade Golpu Au-Cu porphyry deposit, Morobe Province, Papua New Guinea</i> Fraser Maccorquodale (Keynote)
1330	#1059	The geology and genesis of the telescoped Wafi-Golpu porphyry-epithermal system, Papua New Guinea Marc Rinne
1345	#1060	A recipe for giant porphyry deposit formation Simon Richards

MONDAY 6 AUGUST 1300 - 1500 continued

1400	#1061	Geology of the Namosi porphyry Cu-Au district, southeastern Viti Levu, Fiji Evan Orovan
1415	#1062	History of discovery of Sungun, a world-class porphyry copper deposit, NW Iran Hashem Etminan
1430	#1063	The isotope geochemistry of tourmaline at the giant Cadia East porphyry Au-Cu deposit, NSW: An indicator of hydrothermal fluid origin and evolution Nathan Fox
1445	#1064	The Palaeoproterozoic Aitik porphyry Cu-Au-Ag deposit, Lappland, Sweden Roger Nordin

11.1 - Session 1 - Petroleum prospectivity of divergent and transform passive margin basins of North and South Atlantic, Arctic, India and Australasia 1300 - 1500 Mezzanine Room 3

Time		
1300	#1065	<i>Kinematics of the Cretaceous rift along the Eastern Brazilian margin: implications for petroleum exploration</i> Luciano Magnavita (Keynote)
1330	#1066	Diagenetic evolution paths of the Middle Miocene sandstones, the Carpathian foredeep basin, Poland-Ukraine Katarzyna Jarmolowicz-Szulc
1345	#1067	Out of Gondwana - the petroleum prospectivity of Australia's marginal basins Marita Bradshaw
1400	#1068	<i>Petroleum prospectivity of frontier basins on Australia's southern rifted margin</i> Jennifer Totterdell (Keynote)
1430	#1069	Late Aptian rift-related shear zone systems and the eastward migration of the São Paulo Plateau: new insights on the evolution of the Santos basin. Nolan Dehler

12.3 - Session 1 - Gas Hydrates 1300 - 1500 Mezzanine Room 4

Time		
1300	#1070	<i>Decades of gas hydrate exploration: Has the dream come true?</i> Ryo Matsumoto (Keynote)
1330	#1071	A sampling technology for gas hydrates by borehole bottom freezing Wei Guo
1345	#1072	Variation of gas-hydrates along seismic lines constrained from well data in the KG basin, eastern Indian offshore Kalachand Sain
1400	#1073	Microscopic simulation of migration and deposition of fine particles in packed beds Shinichiro Hirabayashi
1415	#1074	Shallow gas hydrate is not feasible for energy resource? Ryo Matsumoto
1430	#1075	Constraints on gas hydrate reservoir quality on the Hikurangi Margin, New Zealand, from seismic analyses and production modelling Ingo Pecher

13.1 - Session 1 - Continental Depositional Systems: 1 1300 - 1500 Boulevard Room

Time		
1300	#1076	Variability of pre-vegetation fluvial architecture: testing the sheet-braided model Renato Paes De Almeida
1315	#1077	Climatic and autogenic controls on pre-vegetation floodplains Andre Marconato

MONDAY 6 AUGUST 1300 - 1500 continued

1330	#1078	<i>Fluvial Systems of the Lake Eyre Basin</i> Kathryn Amos (Keynote)
1400	#1079	Catastrophic outburst flooding from Lake Baikal to Lena River Alexei Ivanov
1415	#1080	Before diagrams for lightweight plastic in open channel flow Miwa Yokokawa
1430	#1081	The depositional sequence and Evolution in Jurassic of Dameigou section, Northern Qaidam Basin Feng Qiao
14.1 - Session 1 - Linking regional plate kinematics and paleostress to basin formation and modelling 1300 - 1500 Plaza Meeting Room 6		
Time		
1300	#1082	<i>Asymmetric crustal thinning of non-volcanic rifted margins formed by sequential normal faulting.</i> Marta Perez-Gussinye (Keynote)
1330	#1083	<i>Geologic and Geophysical Constraints on Crustal Type and Tectonic Evolution of the Gulf of Mexico</i> Malcolm Ross (Keynote)
1400	#1084	Numerical modeling of temporal sequence of fault development in the Cathaysian Block during the Late-Mesozoic crustal extension Xuran Zuo
1415	#1085	Analysis of Songpan-Ganzi plateau-Longmen Mountain-West Sichuan Basin Structure coupling mechanism, China Zhongquan Li
1430	#1086	Structure and kinematics of the Møre-Trøndelag Fault Complex, Mid Norway Christophe Pascal
1445	#1087	A mechanical model of brittle faulting with pre-existing weakness(es) Hengmao Tong
15.1 - Session 1 - Plate kinematic reconstructions and oceanic gateways 1300 - 1500 Great Hall 1&2		
Time		
1300	#1088	<i>The Hawaii-Emperor Bend and The Absolute Motion of the Pacific Plate</i> Paul Wessel (Keynote)
1330	#1089	A regional tectonic model for the Enderby Basin, East Antarctica, suggests a later breakup between India and Antarctica but an earlier breakup for India and Madagascar Ana Gibbons
1345	#1090	New constraints on the tectonic evolution of the Perth Abyssal Plain Simon Williams
1400	#1091	Intraplate deformation and the early opening of the South Atlantic Stuart Clark
1415	#1092	Cenozoic tectonics and paleogeography of continental fragments between Australia, New Caledonia, and New Zealand Rupert Sutherland (Invited)
1430	#1093	Plate reconstructions and paleobiology in GPlates Sabin Zahirovic (Invited)
1445	#1094	Plate tectonics and the Scotia Portal Graeme Eagles (Invited)

MONDAY 6 AUGUST 1300 - 1500 continued

17.1 - Session 1 - Building Planet Earth- the first 500 million years

1300 - 1500

Plaza Meeting Room 5

Time		
1300	#1095	Isotopic Evidence for a Very Early "Late Veneer" Addition of Highly Siderophile Elements to the Earth Vickie Bennett
1315	#1096	<i>Hafnium isotopes in Archaean mantle plumes: a Hadaean message in a (big) bottle</i> Oliver Nebel (Keynote)
1345	#1097	<i>Making and breaking the oldest crust - Greenland's 3.9-3.6 Ga Itsaq Gneiss Complex: Quantum-tectonics juvenile crustal growth followed by recycling during post-collisional crustal extension</i> Allen Nutman (Keynote)
1415	#1098	Mantle oxygen fugacity and early life Christopher Hatton
1430	#1099	Early Extraterrestrial Impact Signatures in Hadean Jack Hills Zircons Mark Harrison
1445	#1100	Detailed geochronological traverse along the Jack Hills Metasedimentary Belt, Western Australia Qian Wang

21.4 - Session 1 - Magmatism in extensional environments (continental rifts and MORB)

1300 - 1500

Plaza Meeting Room 9

Time		
1300	#1101	<i>Patterns in mid-ocean ridge volcanism and MORB composition from local and regional melt supply variations</i> Kenneth Rubin (Keynote)
1330	#1102	The nature of the lithosphere-asthenosphere boundary (LAB) beneath ocean basins Yaoling Niu
1345	#1103	Off-axis mantle melting beneath the East Pacific Rise at 9°30'N: discovery by a magnetotelluric survey and dynamical constraints from flow modeling. Anne Pommier
1400	#1104	Gabbro-norites in fossil extensional environments (Alpine ophiolites) and modern oceanic analogues Giovanni B. Piccardo
1415	#1105	The Kermanshah ophiolitic complex (Zagros belt, Iran): A key area for understanding the geodynamic evolution of the eastern Tethys Khalil Allahyari

22.1 - Session 1 - From ocean floor to subduction zone metamorphism

1300 - 1500

Plaza Meeting Room 10

Time		
1300	#1106	Chemical modifications of subducting oceanic crust at the shallow forearc: Evidence from Mariana blueschists Thomas Zack
1315	#1107	Oblique subduction through 3D numerical models Cristina Malatesta
1330	#1108	U-Pb dating and tectonic implication of ophiolite and eclogite in the Song-Ma suture zone, Southeast Asia Ru Yuan Zhang
1345	#1109	Linking zoned garnet Sm-Nd geochronology and thermodynamic analysis to constrain subduction zone dehydration flux Ethan Baxter

MONDAY 6 AUGUST 1300 - 1500 continued

1400	#1110	The role of Subduction-related Serpentinites in Chemical Recycling and Arc Magmatism Jeffrey Ryan
1415	#1111	The redox state of sub-arc mantle Katy Evans
1430	#1112	Lawsonite pseudomorphs in UHP talc-garnet-chloritoid schist of Makbal Complex, northern Tien-Shan, Kyrgyzstan Rustam Orozbaev
23.4 - Session 1 - Proterozoic Life 1300 - 1500 Plaza Meeting Room 8		
Time		
1300	#1113	Evolution of geological processes on the early Earth and their impact on the early biosphere Evgenii Sharkov
1315	#1114	Biotic events during Lomagundi-Jatulian carbon isotope anomaly Pavel Medvedev (Invited)
1330	#1115	^{13}C -depleted carbonaceous matter in a Paleoproterozoic Zaonega Formation, Karelia, Russia: global or regional controls? Aivo Lepland
1345	#1116	<i>A Magnetotactic Origin for the Mitochondria (and organelle-bearing Eukaryotes) at ~ 2Ga: in the Aftermath of the Cyanobacterial Radiation and the Great Oxygenation Event, Causing the end of the Lomagundi-Jatuli Carbon Isotope Excursion and paving the way for the rest of Proterozoic Time</i> Joseph Kirschvink (Keynote)
1415	#1117	Affinity, life cycle and cytoskeletal complexity of Mesoproterozoic organic-walled microfossils from Shanxi, China Heda Agic
1430	#1118	<i>The Proterozoic record of early eukaryotes</i> Emmanuelle Javaux (Keynote)
23.7 - Session 1 - Origin and evolution of marsupials 1300 - 1500 F1 - Training Room		
Time		
1300	#1119	<i>Darwin's unfolding epiphany: 174 years of Australian marsupial evolution</i> Michael Archer (Keynote)
1330	#1120	Bearing up well: The Koala's 24 million-year-old family tree Karen Black
1345	#1121	Tale of two sabretooths: Biomechanical comparison of the placental <i>Smilodon fatalis</i> and marsupial <i>Thylacosmilus atrox</i> Stephen Wroe
25.1 - Session 1 - Integrated Ocean Drilling Program (IODP) 1300 - 1500 Plaza Meeting Room 1		
Time		
1300	#1122	<i>The role of Australian and New Zealand scientists in IODP science</i> Neville Exon (Keynote)
1330	#1123	Mission Specific Platforms - Past, Present and Future Carol Cotterill
1345	#1124	<i>Onset, evolution and effects of the Mediterranean Outflow: Preliminary Results of IODP Expedition 339 in the Gulf of Cadiz</i> Dorrik A.V. Stow (Keynote)
1415	#1125	Stratigraphy of contourite depositional systems in the Gulf of Cadiz: MIS7 to Holocene Craig Sloss

MONDAY 6 AUGUST 1300 - 1500 continued

1430	#1126	IODP Expedition 325 to the Great Barrier Reef: unlocking the history of reef growth and demise since the Last Glacial Maximum Jody Webster
1445	#1127	Relationship between Milankovitch-scale sea-level change and formation of sequence boundaries in the cores from the IODP site U1352 offshore Canterbury in New Zealand Koichi Hoyanagi
28.1 - Session 1 - Groundwater resources and sustainable management 1300 - 1515 Plaza Terrace Room		
Time		
1300	#1128	<i>Groundwater Challenges and Opportunities</i> Craig Simmons (Keynote)
1330	#1129	Direct simulation of groundwater age and transit time: application to the Lake Rotorua catchment Chris Daughney
1345	#1130	Hydro-chemical methods for the delineation of freshwater bodies and groundwater flow patterns in multilayered aquifer-systems. An example from Groundwater Systems in the Cuvelai-Etoshia Basin, Namibia Christoph Lohe
1400	#1131	A decade's urban geology in Beijing Jiurong Liu
1415	#1132	The Namibian coastal Aquifer "Omdel": From hydro-chemical groundwater fingerprinting to the development of a conceptual and numerical groundwater model. Braam Van Wyk
1430	#1133	Formation waters of Pre-Jurassic rocks in West-Siberian plate Olga Shiganova
1445	#1134	The strategy of drinking groundwater resources use for water supply of Ukrainian population Georgii Rudko (Invited)
1500	#1135	Priorities hydrogeology, engineering geology and geoecology in Uzbekistan Botirjon Abdullaev
29.2 - Session 1 - Karst: processes, environments and paleoenvironmental records (IGCP/SIDA 598) 1300 - 1500 Boulevard Meeting Room 2		
Time		
1300	#1136	Remnants of dune systems on the Nullarbor Plain, Australia Shannon Burnett
1315	#1137	Carbon fluxes and sinks: the consumption of atmospheric and soil CO ₂ by carbonate rock dissolution Jianhua Cao
1330	#1138	Differences between sodium fluorescein and rhodamine B in tracing karst conduit flow Yudao Chen
1345	#1139	Multi-archive approaches to reconstruct Quaternary paleoenvironments using cave deposits. The case-study of the Peștera cu Oase, Romania. Silviu Constantin (Invited)
1400	#1140	<i>The Dissolution of 2600 million year old Karst, Transvaal Supergroup: South Africa</i> Greg Heath (Keynote)

MONDAY 6 AUGUST 1300 - 1500 continued

30.1 - Session 1 - Subaerial and Submarine Landslide Hazards

1300 - 1500

Sky Room

Time		
1300	#1141	Weak or weakened layers ? Understanding the link between sediment characteristics and their response to environmental forcing during slide initiation Jacques Locat
1315	#1142	Role of fluid overpressure on triggering submarine landslides along transform margins: Insights from sandbox modelling France Pattier
1330	#1143	<i>Giant mass-transport deposits: Process variability associated with emplacement dynamics, recurrence of occurrence and slope morphological response</i> Geoffroy Lamarche (Keynote)
1400	#1144	PRESENTATION CANCELLED
1415	#1145	Landslide hazards in Gansu Province, China - Pre-conditioning and triggering factors Shibiao Bai
1430	#1146	Failure Mechanism of Sunjiayuanzi Landslide under Wenchuan Earthquake Xinli Hu

30.7 - Session 1 - Advances in Earthquake and Tsunami Hazard Assessment

1300 - 1500

Meeting Room S1

Time		
1300	#1147	<i>Western Australia's mega-tsunami of 2900 years BP</i> Phillip Playford (Keynote)
1330	#1148	Earthquake Recurrent Intervals of Active Faults In China Mainland Furen Xie
1345	#1149	Slip compensation at fault damage zones and its implication for earthquake propagation Jin-Hyuck Choi
1400	#1150	Current scenario of Seismic Microzonation in India Mithila Verma

31.1 - Session 1 - Engineering Geological Challenges For Our Ever Growing Cities

1300 - 1500

Plaza Meeting Room 4

Time		
1300	#1151	<i>Resilient cities: 3D geoscience for sustainable subsurface management</i> Simon Price (Keynote)
1330	#1152	Urban spatial and land use planning - the geoscience input. Brian Marker
1345	#1153	Aggregate requirements in Ýstanbul, existing problems and their solutions Atiye Tugrul
1400	#1154	Rehabilitation of a closed aggregate quarry in São Paulo Metropolitan Area, Brazil - engineering geology contribution to urban planning and development Francisco De Jorge
1415	#1155	Voids and subsidence: their associated geotechnical risks in and around Abu Dhabi and Dubai, United Arab Emirates Laurance Donnelly
1430	#1156	Environmental geophysics and the 21st century city Peter Styles
1445	#1157	Geotechnical GIS: a desk study tool for Glasgow, UK Martin Culshaw

MONDAY 6 AUGUST 1300 - 1500 continued

33.1 - Session 1 - Biographical Studies of Eminent Geologists-A Symposium in Honour of David Branagan 1300 - 1500 GeoExpo Hospitality Room 1

Time		
1300		Introduction: Presentation of Vallance Medal to David Branagan by Mrs Hillary Vallance
1315	#1158	Biographical and autobiographical work in studies of the history of geology David Oldroyd
1330	#1159	"Living Fossil" - "Fossilized Life"? - Reflections on Biography in the History of Science Marianne Klemun
1345	#1160	The life and geological contributions of eighteenth-century Russian polymath Mikhail Lomonosov Stephen Rowland
1400	#1161	A peculiarly personal encyclopedia: What Desmarest's 'Géographie Physique' tells us about his life Kenneth Taylor
1415	#1162	Alexandre Brongniart's rich life (1770-1847) and multifaceted contributions to geoscience and ceramic art. Kennard Bork
1430	#1163	Grigory (Gotthelf) Fischer von Waldheim (1771-1853): author of the first scientific works on Russian geology and paleontology. Zoya Bessudnova
1445	#1164	The amazing Mr. Kirwan (1733-1812) Sally Newcomb

34.3 - Session 1 - SinoProbe-Deep Exploration in China 1300 - 1515 Plaza Meeting Room 11

Time		
1300	#1165	<i>Progress of SinoProbe - Deep exploration in China 2008-2012</i> Shuwen Dong (Keynote)
1330	#1166	Uplifting of the Longmenshan range from crustal horizontal shortening: New insight from Wenchuan Seismic Fault Scientific Drilling, East Tibet Zhiqin Xu (Invited)
1345	#1167	SinoProbe Seismic deep reflection profiling survey (CMP)- to reveal continental deformation and geodynamics and experiment technique Rui Gao
1400	#1168	Experiments of continental China magnetotelluric observation network and study on three-dimensional electrical structure of North China lithosphere Wenbo Wei
1415	#1169	Lithospheric conductivity structure of North China block -- a 1D study case with SINOPROBE MT data Gaofeng Ye
1430	#1170	Experimental study on water rock interactions at temperatures up to 435°C corresponding to the mid-crust conditions and its application significance Ronghua Zhang
1445	#1171	Geophysical evidence to geological properties of the typical basins in the northeastern China Qi Lu
1500	#1172	Aerodynamics optimization for aeromagnetic air-pod Yanchao Qiao

MONDAY 6 AUGUST 1300 - 1500 continued

36.2 - Session 1 - Environmental change in karst systems

1300 - 1515

Boulevard Meeting Room 1

Time		
1300	#1173	<i>Study progresses on capacity of atmospheric CO₂ sink in karst of China</i> Zhongcheng Jiang (Keynote)
1330	#1174	Impact of forest degradation on epikarst zone's water production in the case of Yunnan Shilin, China Yu Hui Li
1345	#1175	<i>Effect of climatic changes on the quality of adjacent karst aquifers of the Konarsiah Salt Diapir</i> Ezzat Raeisi (Keynote)
1415	#1176	Status of Lihu subterranean river contamination and capacity of self-purification evaluation Fang Guo (Invited)
1430	#1177	Solutes origin in karst groundwater in Chongqing, China: A combined sulfate and strontium isotope approach Junbing Pu
1445	#1178	Bicarbonate daily variations in a karst river: the carbon sink effect of subaquatic vegetation photosynthesis Cheng Zhang
1500	#1179	Investigating large sinkholes and tiankengs in the Three Gorges Dam area Mingtang Lei
1500 – 1530		BREAK

MONDAY 6 AUGUST 1530 - 1730

1.6 - Session 2 - Cross Communication in Geoscience

1530 - 1730

Arbour Meeting Room 2

Time		
1530	#1180	<i>Communicating what geologists do - the role of professional geoscience organizations</i> Barbara Murphy (Keynote)
1600	#1181	Strengthening communication between geoscientists and public through demonstrating applied geosciences Luca Demicheli
1615	#1182	Partnering and Experiential Learning in Support of Career Pathways in Natural Resource Science: Examples from the U.S. Geological Survey Suzette Kimball
1630	#1183	Students and Geoscience Societies William Siok
1645	#1184	International Earth Science Olympiad - IESO as a tool to increase Geosciences' awareness school and public Roberto Greco
1700	#1185	<i>The need for a task group on strengthening communication between fundamental and applied geosciences</i> Ruth Allington (Keynote)

MONDAY 6 AUGUST 1530 - 1730 continued

2.1 - Session 2 - Ground Water Management for Improving rural health and mitigating rural poverty 1530 - 1730

GeoExpo Hospitality Room 2

Time		
1530	#1186	Impact of Poverty, Waste management on Groundwater (a case of Kaliyeka area, Lilongwe City, Malawi, South Eastern Africa) Benjamin Kamanga
1545	#1187	Application of Ground Penetration Radar in exploration of groundwater around Popawas-Agolai area if Indian desert Kanhaiya Lal Shrivastava
1600	#1188	The role of Women in the development and management of water resources in Sub-Urban Areas - A case study Rama Raju Hanumana Hally Kamba
1615	#1189	Water Hardness, fluoride and aetiology of endemic Chronic Kidney Disease in the dry zone of Sri Lanka Rohana Chandrajith
1630	#1190	GIS based Groundwater Quality mapping in Aurangabad district industrial and city area of Maharashtra, India. Ashok Tejankar

3.1 - Session 1 - Climate variability in the Holocene

1530 - 1745

Boulevard Meeting Room 1

Time		
1530	#1191	<i>The climate variability during the Holocene: a perspective based on sea-level, solar insolation and irradiance forcings</i> Edouard Bard (Keynote)
1600	#1192	Saharian input and humidity in two alpine lake sediments during the Holocene: offsets, cyclicity and biogeochemical impacts (Sierra Nevada, south-eastern Spain). Francisco J. Jimenez-Espejo
1615	#1193	Eastern Mediterranean Sapropel S1: Its Synchronous Basin-Wide Formation and Redox-Controlled Preservation Gert J De Lange
1630	#1194	Holocene benthic responses to saline water inflows to the Baltic Sea Joonas Virtasalo
1645	#1195	Multi-decadal to centennial climate variability during the fourth millennium BC as recorded from Templevanny Lough, Co. Sligo, Ireland Susann Stolze
1700	#1196	Climate change and the delayed spread of agriculture into Europe Scott Mooney
1715	#1197	Interdecadal variability in coralline algal calcification rates in response to the Pacific Decadal Oscillation Phoebe Chan
1730	#1198	How Short-term Trees, Shrubs and Grass Replacement impacts 13C Distribution Characteristics of Soil Profiles Yating Shen

5.1 - Session 2 - Geoscience Spatial Data Infrastructure *Sponsored by IHS Global Limited*

1530 - 1730

Boulevard Meeting Room 3

Time		
1530	#1199	INSPIRE - SDI : an new paradigm to develop geoscientific services Francois Robida
1545	#1200	A geology data specification for INSPIRE John Laxton

MONDAY 6 AUGUST 1530 - 1730 continued

1600	#1201	EGDI-Scope: Developing a pan-European Geological Data Infrastructure Tirza Van Daalen
1615	#1202	Geo-Seas - building a unified e-infrastructure for marine geoscientific data in Europe Helen Glaves
1630	#1203	EUROGEOSOURCE: A showcase of future data management and dissemination for energy and minerals Stephan Gruijters
1645	#1204	Strategic Roadmap for the U.S. Geoscience Information Network Lee Allison
1700	#1205	Enabling interoperable earth sciences data exchange across the nation Pavel Golodoniuc
1715	#1206	Earth science data - cyberinfrastructure, education, and multi-organizational collaborations Michael Frame

5.6 - Session 2 - Crystallographic Preferred Orientation and Anisotropy of Rocks; Soft Computing and Intelligent Methods; Remote Sensing 1530 - 1730 Boulevard Auditorium

Time		
1530	#1207	Graphical representation and analysis of second-order tensor anisotropy David Durney
1545	#1208	The input of advanced EBSD/EDS integration in the characterization of mineralogical samples Laurie Palasse
1600	#1209	Variable Lag Variography Using k-means Clustering Ioannis Kapageridis
1615	#1210	Improving geological estimation using soft-computing models with hints Rodney Wolff
1630	#1211	Hybrid expert systems for forecasting and estimation of ore deposits Irina Chizhova
1645	#1212	Global Fiducials Program Imagery - Opportunities For Monitoring Climate Change, Observing Earth's Dynamic Processes, Performing Geospatial Research, And Supporting Education Bruce Molnia (Invited)
1700	#1213	Phase preserving tone mapping of high dynamic range geoscientific images Peter Kovesi
1715	#1214	Dynamics of the 2008-2011 and 1993-1995 Surges of Bering Glacier, Alaska Bruce Molnia

6.1 - Session 2 - Storage 2 + Geochemistry *Sponsored by CO2 CRC* 1530 - 1730 Mezzanine Room 1

Time		
1530	#1215	Site specific geo-characterization for CO ₂ storage: depleted gas field versus saline aquifer storage at the CO2CRC Otway Project. Tess Dance (Invited)
1545	#1216	Evaluation of porosity/permeability and characteristics of reservoir rocks over Miaoli area, Western Foothill Belt of NW Taiwan Louis Loung-Yie Tsai
1600	#1217	PRESENTATION CANCELLED
1615	#1218	Four years on, fluid sampling at the CO2CRC Otway Stage 1 Storage Project Linda Stalker (Invited)

MONDAY 6 AUGUST 1530 - 1730 continued

1630	#1219	Measurements of carbonate reaction rates at carbonated and bicarbonated springs as a natural analogue field of CO ₂ geological sequestration Masao Sorai
1645	#1220	Geochemical modelling of experimental and natural analogue carbon storage using modified reaction rate equations Dirk Kirste (Invited)
1700	#1221	<i>Safe and effective geological storage of CO₂</i> Charles Jenkins (Keynote)
7.6 - Session 2 - The future mine and geoscience 1530 - 1730 Plaza Meeting Room 3		
Time		
1530	#1222	<i>Towards the intelligent future mine: the case for the Common Mine Model.</i> Stephen Fraser (Keynote)
1600	#1223	The comprehensive utilization of Non-metallic minerals in Metallic tailings in China Ziguo Hao
1615	#1224	Radar-based Sensing for Real-time Mining Machine Control Jonathon Ralston
1630	#1225	LASC Open Systems Interoperability: Boosting Effective Mining Automation David Reid
8.5 - Session 2 - Exploration and discovery: diagnosis and prognosis -- are we in need of cure? [Society for Geology Applied to Mineral Deposits (SGA)] 1530 - 1730 Mezzanine Room 2		
Time		
1530	#1226	The Hawsons Iron Deposit, NSW - Eastern Australia's new magnetite resource John Donohue
1545	#1227	A truly multi-commodity mineral belt in Western Tasmania, Australia Simon Tear
1600	#1228	Structural development and architecture of part of the Morondava Basin interpreted from airborne geophysical data and a 3D integrated inversion model of gravity (Falcon), magnetic, seismic and well data Jurriaan Feijth
1615	#1229	Introducing Dali Cu-Au deposit as the first type of diorite porphyry in Central Iran Sara Yousefifar
9.3 - Session 2 - Dating of Ore Deposits 1530 - 1730 Great Hall 4		
Time		
1530	#1230	SHRIMP zircon U-Pb age and tectonic implications of Heishan Cu-Ni sulfide deposit in Beishan area, NW China Haiping Yan
1545	#1231	Re-Os isotopic system of sulfides in the Jiama Cu-Mo deposit of Tibet, China Lijuan Ying
1600	#1232	Growth rates of ferromanganese concretions from the Gulf of Finland (the Baltic Sea) Vladimir Zhamoida
1615	#1233	Geology, geochemistry and age constraints on the copper skarn deposit of Yangla, Yunnan Province, China Jing-Jing Zhu

MONDAY 6 AUGUST 1530 - 1730 continued

9.9 - Session 2 - Giant & super giant orebodies *Sponsored by Rio Tinto* 1530 - 1730 Great Hall 3

Time		
1530	#1234	<i>Geologic evolution of the supergiant Pebble porphyry Cu-Au-Mo deposit, southwestern Alaska, USA</i> Karen Kelley (Keynote)
1600	#1235	The geochemical footprint of the Central Zone alkaline Cu-Au porphyry deposit, Galore Creek district, northwestern British Columbia, Canada Janina Micko
1615	#1236	The high grade Mo-Re Merlin deposit, Cloncurry region, Northern Queensland: Insights from sulfur isotope and trace element geochemistry. Joao Babo
1630	#1237	Effect of Contamination on PGE-hosted Sulphides Dave Hutchinson
1645	#1238	The role of halogens in sulfide melting at Broken Hill, New South Wales, Australia Paul Millsteed
1700	#1239	Comparison of giant uranium provinces in the internal Variscides (Saxony, Thuringia) and Streltsovsky caldera (Siberia) - indications for mantle-derived U mineralization Thomas Seifert
1715	#1240	Molecular-level understanding of metal transport in hydrothermal ore fluids: in situ experiments and ab initio molecular dynamic simulations. Weihua Liu

11.1 - Session 2 - Petroleum prospectivity of divergent and transform passive margin basins of North and South Atlantic, Arctic, India and Australasia 1530 - 1730 Mezzanine Room 3

Time		
1530	#1241	Petroleum prospectivity of the offshore northern Perth Basin; an integrated stratigraphic, geochemical and basin modelling study Andrew Jones
1545	#1242	The Gulf of Mexico origin based on the existence of a hot spot (sensu J. Tuzo Wilson, 1963) with triple junction, its evolution, and implications Jaime Rueda-Gaxiola
1600	#1243	Petroleum potential of the central Beagle Sub-basin, Northern Carnarvon Basin, North West Shelf, Australia Megan Lech
1615	#1244	Laptev Sea and Southern Eurasia Basin in the Arctic Ocean, Russia: unique tectonics and giant prospects for hydrocarbon exploration. Sergey Sekretov
1630	#1245	<i>Undiscovered petroleum resources on the Norwegian Continental Shelf</i> Abryl O. Ramirez (Keynote)
1700	#1246	Experimental physical modelling of release faults in extensional systems and implications for hydrocarbon exploration Nivaldo Destro

12.3 - Session 2 - Gas Hydrates 1530 - 1730 Mezzanine Room 4

Time		
1530	#1247	<i>Recent Modeling Studies of Gas Production From Hydrate Deposits and of the Corresponding Geomechanical System Response</i> George Moridis (Keynote)

MONDAY 6 AUGUST 1530 - 1730 continued

1600	#1248	Investigating potential gas hydrate release structures on the Chatham Rise using angular range analysis to model seafloor lithology. Jess Hillman
1615	#1249	Research on formation model of gas hydrate deposits at Shenhu Area, northern South China Sea Nengyou Wu
1630	#1250	Undrained shear behaviour of soil samples recovered from seafloor in eastern Nankai Trough Shin'ya Nishio
1645	#1251	Methane seepage in pockmark CN03, Nyegga, mid-Norwegian margin Yifeng Chen
1700	#1252	The relationship between tectonic subsidence and BSR of Upper Neogene in the deep-water area of the northern continental slope, South China Sea Xinghe YU (Invited)

13.1 - Session 2 - Continental Depositional Systems: 1

1530 - 1730

Boulevard Room

Time		
1530	#1253	Sediments and process environments of a tectonically active, perhumid, temperate glacial system: a New Zealand case study James Shulmeister
1545	#1254	<i>Tributary, distributary and other fluvial styles: what really represents the norm in the continental rock record?</i> Christopher Fielding (Keynote)
1615	#1255	Late Quaternary history of Laguna Llanqueto area, Argentina Adriana Garcia
1630	#1256	Palaeoenvironmental record of Laguna Llanqueto, Argentina, since the Late Pleistocene Débora Sabina D'Ambrosio
1645	#1257	Clastic provenance as a climate change indicator of the Neocomian to Aptian transition in fluvial deposits of the Tucano Basin, NE-Brazil Felipe Figueiredo
1700	#1258	A new case study of alluvial fans with Ground Penetration Radar(GPR) method Sepideh Samimi Namin
1715	#1259	Quaternary depositional environment study of ZK05 borehole in Dalangtan, northwest Qaidam Basin, China Linfeng Shi

14.1 - Session 2 - Regional basin models- present status and future challenges

1530 - 1745

Plaza Meeting Room 6

Time		
1530	#1260	<i>Which factors controls final depth of continental rifts?</i> Hans Thybo (Keynote)
1600	#1261	<i>Presalt Evolution of the South Atlantic Conjugate Margins</i> Patrick Unternehr (Keynote)
1630	#1262	Conductive versus convective heat transport in sedimentary basins Mauro Cacace (Invited)
1645	#1263	Coupled lithospheric mantle thickening in the NW-Moroccan margin and mantle thinning beneath the Atlas Mountains Manuel Fernandez
1700	#1264	Deep structure of the Southwest African continental margin based on results of lithosphere-scale 3D gravity and thermal modelling Yuriy Maystrenko

MONDAY 6 AUGUST 1530 - 1730 continued

1715	#1265	Seismo-stratigraphy and numerical basin modeling of the Campos, Santos, and Pelotas basins, offshore Brazil Jorham Contreras
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15.1 - Session 2 - Plate kinematics reconstructions and the coupled mantle-lithosphere system 1530 - 1730 Great Hall 1&2

Time		
1530	#1267	<i>Migrating uplift-subsidence, volcanism and deep seismicity in continental interiors due to a convective edge instability</i> Tim Stern (Keynote)
1600	#1268	The asthenosphere and plate tectonics Adrian Lenardic
1615	#1269	Multi-Scale Dynamics and Rheology of Mantle Flow With Plates Michael Gurnis
1630	#1270	Control of trench migration and slab-induced mantle flow on overriding plate deformation: Insights from dynamic numerical models of subduction Wouter P. Schellart
1645	#1271	New constraints of subducted mantle lithosphere on plate-tectonic reconstructions John Suppe
1700	#1272	Refining the space-time strain path of the Central Basin and Range through low temperature thermochronology: Implications for geodynamic controls on Cenozoic intraplate deformation Tandis Bidgoli
1715	#1273	The 100 Ma plate reorganisation event: scale and potential driving mechanisms Kara Matthews

17.1 - Session 2 - Building Planet Earth- the first 500 million years 1530 - 1730 Plaza Meeting Room 5

Time		
1530	#1274	China's oldest rock is near Beijing: Recognition of 3.89-3.55 Ga orthogneiss migmatite in E. Hebei province Allen Nutman
1545	#1275	<i>Deep Earth recycling in the Hadean</i> Craig O'Neill (Keynote)
1615	#1276	Lutetium-Hafnium isotopic systematics of the metavolcanic rocks from 2.7 Ga Gadwal greenstone terrane, Dharwar craton, India: Implications for the evolution of the Eoarchean mantle Tarun Chander Khanna

21.4 - Session 2 - Magmatism in extensional environments (continental rifts and MORB) 1530 - 1730 Plaza Meeting Room 9

Time		
1530	#1277	⁴⁰ Ar/ ³⁹ Ar dating and geochemistry of the Woranso-Mille Pliocene basalts, central Afar, Ethiopia Mulugeta Alene-Araya
1545	#1278	Magmatism of the Tibetan Plateau and implications for mantle dynamics Xuanxue Mo
1600	#1279	Geochemistry and petrogenesis of mafic magmatic rocks of Bhandara-Balaghat Granulite Belt, Central India: Significance of tectonic setting and age Meraj Alam

MONDAY 6 AUGUST 1530 - 1730 continued

1615	#1280	Il'meno-Vishnevogorsky Alkaline Complex (IVAC) from Urals, Russia: age, sources and origin Elena Belousova
1630	#1281	SHRIMP U-Pb zircon geochronological, geochemical and Sr-Nd isotopic study of a mid-Cretaceous bimodal composite dyke complex in the Jiamusi Block, NE China, and its geodynamic implication Mingdao Sun

22.1 - Session 2 - From ocean floor to subduction zone metamorphism

1530 - 1730

Plaza Meeting Room 10

Time		
1530	#1282	<i>Monitoring Phase Transformation and Crustal Flow During Deep Subduction with Titanite U-Pb Ages</i> Bradley Hacker (Keynote)
1600	#1283	Two contrasting HP/LT and UHP metamorphic belts: constraint on Early Paleozoic orogeny in the Qilian-Altun orogen, northwestern China Jianxin Zhang
1615	#1284	High-Ti phengite in eclogitic rocks at Yangkou from the Sulu ultrahigh pressure metamorphic belt, China Jingbo Liu
1630	#1285	Trace element composition of polyphase inclusions constrain partial melting in the Shuanghe UHP eclogite (Dabie Shan) Joerg Hermann
1645	#1286	Multiple exsolution of orientated thin lamellae in clinopyroxene, its relation to the PT evolution of Archaean eclogite complex Salma, Russia Xiaoli Li

23.4 - Session 2 - Proterozoic Life

1530 - 1730

Plaza Meeting Room 8

Time		
1530	#1287	Precambrian terrestrialization and the transition to the modern carbon cycle Martin Kennedy (Invited)
1545	#1288	Neoproterozoic stromatolite biostratigraphy Kathleen Grey
1600	#1289	Biogeochemical evolution of the Neoproterozoic Amadeus Basin, Australia Amber Jarrett
1615	#1290	A glimpse of the syn- and post-glacial biosphere recorded in the late Neoproterozoic Pocatello and Perry Canyon formations, Southeastern Idaho and Northern Utah, USA Robin Nagy
1630	#1291	Paleoceanographic variations during the Marinoan glaciation interval evidenced by organic geochemistry from the East Kimberley region, northwestern Australia Atena Shizuya
1645	#1292	Microfossils in the end Cryogenian glaciogenic Elatina Formation of South Australia? Daniel Le Heron
1700	#1293	Ediacaran acanthomorph acritarchs of South China: stratigraphy, SHRIMP U-Pb constraints and correlation with Australia Linzhi Gao (Invited)
1715	#1294	Algal affinities of the Ediacaran organic-walled microfossils with reproductive internal bodies Malgorzata Moczydlowska (Invited)

MONDAY 6 AUGUST 1530 - 1730 continued

23.7 - Session 2 - Origin and evolution of marsupials

1530 - 1730

F1 - Training Room

Time		
1530	#1295	<i>A comprehensive genus-level phylogeny of living and extinct marsupials based on craniodental and molecular data</i> Robin Beck (Keynote)
1600	#1296	Pliocene paleoenvironments of southeastern Queensland, Australia inferred from stable isotopes of marsupial tooth enamel Shaena Montanari
1615	#1297	Occurrence and variety of marsupial and other vertebrate trace fossils in the Pleistocene of Australia Stephen Carey
1630	#1298	Niche diversity and evolution of Australia's megaherbivores - the diprotodontoids (Marsupialia: Diprotodontidae, Palorchestidae) Karen Black (Invited)

25.1 - Session 2 - Integrated Ocean Drilling Program (IODP)

1530 - 1745

Plaza Meeting Room 1

Time		
1530	#1299	Biomarkers in offshore Canterbury Basin sediments, New Zealand: organic matter input and thermal maturity Simon George
1545	#1300	Global monsoon components in $\delta^{18}\text{O}$ and $\delta^{13}\text{C}$ records from low latitude ocean drilling Qianyu Li
1600	#1301	<i>Exploring for the Deep Hot Biosphere: drilling an active hydrothermal system in the Okinawa Trough, IODP Expedition 331</i> Michael Mottl (Keynote)
1630	#1302	Actively forming Kuroko-style massive sulfide mineralisation and hydrothermal alteration at Iheya North, Okinawa Trough - key petrological results of IODP Expedition 331 Christopher Yeats
1645	#1303	Dating seawater alteration from the Shatsky Rise basalts from IODP Expedition 324, using U-Pb isotope geochemistry Irina Romanova
1700	#1304	Dating of seismites, IODP Expeditions 319 and 334, Nankai Trough and Costa Rica Gary J. Huftile
1715	#1305	Spatial and time variations in stress state in the Costa Rica subduction margin, IODP Expedition 334 Yuzuru Yamamoto
1730	#1306	Applications of anelastic strain recovery measurement for determining in-situ stress state in IODP NanTroSEIZE stage II expeditions Weiren Lin

28.1 - Session 2 - Groundwater resources and sustainable management

1530 - 1745

Plaza Terrace Room

Time		
1530	#1307	Aquifer characterisation and groundwater resources of Dili, East Timor and an assessment of their susceptibility to climate change Sarah Marshall
1545	#1308	Assessment of climate change impacts on groundwater in East Timor Luke Wallace

MONDAY 6 AUGUST 1530 - 1730 continued

1600	#1309	Climate change impacts on the groundwater system of volcanic Jeju island, S. Korea Sung-Ho Song
1615	#1310	Assessing seawater intrusion vulnerability at a national-scale using theoretically based vulnerability indicators Adrian Werner
1630	#1311	Development of river basin management plan based on principles of integrated water resources management (IWRM) and requirements of European Water Framework Directive (EWFD) for transboundary river catchments Ivan Alferov
1645	#1312	Cause and effect geochemical studies on toxic trace elements in groundwater from Patancheru industrial zone, Hyderabad, southern India Dasaram Banothu
1700	#1313	Potential of freshwater reserves under Kuwait territorial water Amitabha Mukhopadhyay
1715	#1314	Hydro-geophysical parameter estimation for aquifer characterization in hardrock environments: Case study of Ibadan, Southwestern Nigeria Michael Oladunjoye
1730	#1315	Groundwater resources and sustainability in Canada Alfonso Rivera

29.2 - Session 2 - Karst: processes, environments and paleoenvironmental records (IGCP/SIDA 598) 1530 - 1730

Boulevard Meeting Room 2

Time		
1530	#1316	The formation of the pinnacles in Nambung National Park, Western Australia Matej Lipar
1545	#1317	An experimental study of limestone dissolution as a function of hydrodynamic pressure from 0 to 2 MPa and temperature from 15 to 85 degrees C Qi Liu
1600	#1318	<i>A new direction in effective accounting for the atmospheric CO₂ budget</i> Zaihua Liu (Keynote)
1630	#1319	<i>Invertebrate fossils as new proxy for the study of paleoclimate and karst evolution</i> Oana Moldovan (Invited)
1645	#1320	Seasonal variations in delta18O values of the modern endogenic travertines deposited in travertine-depositing pools at Baishuitai, Yunnan, SW China and their paleotemperature implications Hailong Sun
1700	#1321	Predicting induced sinkhole based on real-time monitoring of karst water pressure in Guangzhou, China Mingtang Lei

30.1 - Session 2 - Subaerial and Submarine Landslide Hazards 1530 - 1730

Sky Room

Time		
1530	#1322	Case study of debris flow: a giant debris flow in Wenjia Gully, Sichuan province, China on August 13th, 2010 Bin Yu
1545	#1323	Numerical simulation on failure process of Qianjiangping Landslide triggered by water level rise and rainfall in the Three Gorges Reservoir Wenxing Jian
1600	#1324	Modelling of debris flows starting from shallow landslides in the Kathmandu area, central Nepal Martin Mergili

MONDAY 6 AUGUST 1530 - 1730 continued

1615	#1325	Rock weathering and its role on the formation of Sangrumba landslides in Higher Himalaya of Nepal Amar Deep Regmi
1630	#1326	A 'failure' to recognize tsunamis in Darwin's theory of atoll formation James Goff
1645	#1327	Submarine Landslides on the Slope and Rise, Southern New England Continental Margin, USA Jason Chaytor
1700	#1328	Submarine landslides on the upper southeast Australian passive continental margin Samantha Clarke
1715	#1329	A conceptual model for the onset and occurrence of submarine landsliding on the southeastern Australian continental margin Tom Hubble

31.1 - Session 2 - Engineering Geological Challenges For Our Ever Growing Cities

1530 - 1730

Plaza Meeting Room 4

Time		
1530	#1330	Geological risk assessment for St. Petersburg City area Dmitry Frank-Kamenetsky
1545	#1331	Study of geology and Carboniferous roof topography upon engineering geological mapping of Moscow territory Olga Eremina
1600	#1332	Why are the potential benefits of urban geology ignored? Martin Culshaw (Invited)

33.1 - Session 2 - Biographies of eminent geologists

1530 - 1730

GeoExpo Hospitality Room 1

Time		
1530	#1333	<i>A novice's biography of George G. Simpson (1902-1984), Paleontologist, Evolutionist. Léo F. Laporte (Keynote)</i>
1600	#1334	Dorothy Hill, A.C., C.B.E., FRS, FAA - Brisbane's distinguished geologist John Jell
1615	#1335	William Noel Benson: His geological work in Australia and New Zealand in the first half of the 20th century Wolf Mayer
1630	#1336	Ralph Tate (1840-1901): Pioneering Australian Geologist Barry Cooper
1645	#1337	The Woodward factor: Arthur Smith Woodward and geology in Australia Susan Turner
1700	#1338	Science and life of a geologist through his papers: the personal archive of Giovanni Capellini Francesco Gerali
1715	#1339	Vasiliy Mikhailovich Severgin: a notable Russian mineralogist Tatiana Ivanova

34.3 - Session 2 - SinoProbe-Deep Exploration in China

1530 - 1730

Plaza Meeting Room 11

Time		
1530	#1340	Gravity field characteristics and its tectonic significance of China based on EGM 2008 Xiaohong Meng

MONDAY 6 AUGUST 1530 - 1730 continued

1545	#1341	Crustal structure of the Solonker collision zone: geological interpretation of a deep seismic reflection profile in North China Shihong Zhang
1600	#1342	Joint evaluation of EM wave and elastic wave for fracture characteristics Xuan Feng
1615	#1343	Develop of 10km Continental Scientific Drilling Rig in China Youhong Sun
1630	#1344	Study of magnetotelluric inversions on array dataset from Ordos and adjacent area Hao Dong
1645	#1345	Seismic exploration method to detect the molybdenum mine goaf area Junqiu Wang
1700	#1346	The Development of Coupling Bionics Impregnated Diamond Bit Ke Gao
1715	#1347	Numerical simulation of seismic wave-field on Phased-array Vibrator System in mineral exploration Tao Jiang
1730 – 1830		POSTER SESSION & HAPPY HOUR
1830 - 1930		Public Forum 1: Professor Steve Gorelick (USA) “Global Freshwater: Identifying Vulnerable Regions and Solutions for Sustainability”

All posters are located throughout the Mezzanine Level. Poster sessions will be held on Monday to Thursday from 5.30pm to 6.30pm.

Poster Session - Monday - Mezzanine Level

Symposium #	Poster Board	Presenter	Title
1.4	#001	Thomas Monecke	Application of combined cathodoluminescence and automated scanning electron microscopy in forensic soil investigations
	#002	Susann Stolze	Palynomorph distribution in a simulated crime scene in New Zealand: implications for palynological profiling
2.1	#003	Siyan Malomo	Adverse effects of solid waste dumping on groundwater quality in some urban centres in Nigeria
	#004	Vyacheslav Zavaley	Genesis, resources and directions of perspective industrial water flows complex usage in Kazakhstan
	#005	Vyacheslav Zavaley	Methodics of hydrogeological small-scaled mapping using GIS systems
	#006	Vyacheslav Zavaley	Assessment the impact of 'hydraulic jump' in hydrogeological wells on the design parameters of an aquifer
3.1	#007	Gert J De Lange	High-Resolution Basin-Wide 14C-Dated Records of Formation and Preservation of the Most-Recent Eastern Mediterranean Sapropel
	#008	Sandro Demuro	Atlas of the marine and transitional Holocene terraces - Eastern Straits of the Magellan Coasts - Patagonia and Tierra del Fuego (Chile)
	#009	Gabriel Habiyaemye	Effect of climate change on food security in Rwanda
	#010	Francisco J. Jimenez-Espejo	The early Holocene deglaciation of the East Antarctic margin (~11.5 ka-8.0 ka cal BP): a high resolution geochemical study from Site U1357 (Adélie Land).
	#011	Justine Kemp	Holocene lake salinity changes in the Wimmera, southeastern Australia, provide evidence for millennial scale climate variability
	#012	Boo-Keun Khim	High-resolution paleoproductivity change during the Holocene in the Adélie Basin, Wilkes Land, East Antarctica (IODP Exp 318 Site U1357)
	#013	Dianbing Liu	Cyclic variability of the early Holocene Asian monsoon from annually-laminated stalagmites, central China
	#014	Patrick Nunn	Climate-driven sea-level fall causes food crises and forces radical settlement-pattern change: examples from the Fiji Islands (Southwest Pacific)
	#015	Fresia Ricardi-Branco	Quaternary paleoenvironmental analysis of an ecotone area of Wood Savanna/Tropical Rain Forest in the center of São Paulo State, SE, Brazil.*
	#016	Susann Stolze	Evidence for climatic variability and its impact on human development during the Neolithic from Loughmeenaghan, County Sligo, Ireland
5.1	#017	Jiangying Wu	Changes in East Asian summer monsoon during the Holocene recorded by stalagmite delta18O records from Liaoning Province
	#018	Lee Allison	U.S. Geothermal Data System
	#019	Leonid Chesalov	Information system for providing of state services in the field of geology and mineral resource management
	#020	Gerold Diepolder	Interconnection and web-based visualization of geological 3D models with GST – prototypical implementations at the Bavarian State Geological Survey

Poster Session - Monday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
	#021	Tim Duffy	Why is the OGC WMS 1.3.0 standard important for OneGeology?
	#022	Tim Duffy	Why is the ISO/OGC Web Feature Service (WFS) 2.0 standard important for serving GeoSciML version 3.0 within OneGeology?
	#023	Jonggyu Han	Construction of the integrated management system on drilling core data and geological maps of metal mines in Taebaegsan ore deposit zone of eastern part of Korea
	#024	Soren-Nils Haubrock	Serving geological data and maps as part of a New Zealand spatial data infrastructure
	#025	Ian Jackson	OneGeology goes provincial!
	#026	Katsumi Kimura	Information system for borehole data in Japan
5.6.01	#027	June Hill	Using conditional probability to combine data sets for gold exploration
	#028	Chunxue Liu	Simulating the distribution of water quality in Dianchi lake with space-time multivariate geostatistics
5.6.02	#029	Jörn H. Kruhl	Fractal-geometry-based anisotropy quantification of complex fabrics
	#030	Qinglin Xia	Application of Multifractal Singularity Theory to Identify the Weak Geochemical Anomalies Caused by Buried Sources in Dalaimiao District, Inner Mongolia (China)
5.6.03	#031	Yosoon Choi	Comparing geostatistical algorithms implemented in 3D geological modelling software: a case example of intercomparison among geostatistical algorithms for characterizing hydrocarbon reservoirs
	#032	Sanjeev Jha	Using high-resolution bathymetry and Direct Sampling to characterise sedimentary evolution in large rivers
	#033	Yongchang Tian	Quantitative evaluation of the uniformity of diamond distribution on bit crown based on image processing
5.6.04	#034	Anatoly Dmitrievskiy	Increasing the cognitive efficiency in geology
	#035	Thomas Landgrebe	A palaeo-geographic pattern-matching approach for opal exploration in Australia
	#036	Juxing Tang	The program development and application research of BP neural network in the classification of mineral resources assessment data
5.6.06	#037	Yumiko Harigane	Ductile shear zone(s) developed in a hydrated oceanic crust: an example from the Godzilla Megamullion, Parece Vela Rift, Philippine Sea
	#038	Helmut Schaebe	MTEX for texture analysis and beyond
	#039	Ivan Zibra	Microfabric evolution during crystallization of synkinematic plutons
6.1	#040	Sorin Anghel	Romania CCS Demo Project- Preliminary monitoring plan
	#041	Ramon Carbonell	Passive Seismic Monitoring of an Experimental CO ₂ Geological Storage Site in Hontomín (Northern Spain)
	#042	Ramon Carbonell	3D Seismic Results from the Hontomin Site for Geological Storage of CO ₂ (Spain)
	#043	Ramon Carbonell	Hontomin, the Spanish CO ₂ geologic storage site: results from 2D seismic survey
	#044	Chun Chang	Experimental study of irreducible water saturation and residual CO ₂ saturation of reservoir rocks in the Erdos basin in China

Poster Session - Monday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
	#045	Shun Chiyonobu	Geological modeling and its application of Nagaoka Pilot Site, implications for reservoir heterogeneity
	#046	Christopher Consoli	Late Cretaceous turbidites of the North West Shelf and their potential for CO ₂ Storage
	#047	Richard (Ric) Daniel	Diagenetic factors controlling reservoir quality in the Paaratte Formation, Otway Basin, SE Australia
	#048	Grant Dawson	Mobilisation of elements from coal during batch reactor experiments with deionised water and CO ₂ at 40°C and 9.5 MPa
	#049	Patrice De Caritat	Monitoring groundwater composition in aquifers overlying a CO ₂ storage demonstration project in a depleted natural gas reservoir: demonstrating preservation of groundwater quality
	#050	Vijay Prasad Dimri	CO ₂ – EOR in an Indian oil field: A feasibility study
	#051	Kaori Endo	Evaluation of CO ₂ sorption and dimensional change of rocks under CO ₂ environments for CO ₂ geological sequestration
	#052	Susan Farquhar	Mineralogical variation in target CO ₂ geosequestration reservoirs in the eastern Surat Basin, Queensland, Australia
	#053	Takashi Fujii	Measurements of CO ₂ sorption capacity of sandstones in different water saturation states using the manometric method
	#054	Charles Gorecki	Overview of the Fort Nelson CCS Project
	#055	Stephen Greb	Structural influences on the Cambrian Mount Simon Sandstone and overlying strata: Insights from carbon sequestration research in the Midwest United States
	#056	Micaela Grigorescu (Preda)	Application of self-organising maps to clustering of groundwater chemical data
	#057	Nigel Hicks	Carbon Capture and Storage in a South African context: Specific emphasis on the storage potential of the onshore Mesozoic Algoa Basin, South Africa.
	#058	Alan Jones	Preliminary 3D geoelectrical model of the Research Laboratory on Geological Storage of CO ₂ in Hontomin (Burgos, Spain)
	#059	Nyeon Keon Kang	Seismic interpretation of gas reservoir and saline aquifers for CO ₂ geological storage Ullung Basin, offshore Korea
	#060	Junzo Kasahara	Generation of simultaneous vertical and horizontal vibrations by synthetic method for time Lapse monitoring
	#061	Junzo Kasahara	Injected air diffusion and influence of rain fall in the near surface ground near the Nojima Fault in Awaji Island
	#062	Bumsuk Lee	CO ₂ storage capacity of structural closures in the southern Jeju Basin, off southern Korea, northern East China Sea
7.6	#063	Sungchan Oh	Development of mine transportation managing system in underground limestone mine, Korea
8.5	#064	Vasily Aristov	Type chemistries of native gold from deposits of various styles
	#065	Konstantin Garanin	JINDAL DRC Sprl Company exploration activity in DR Congo
	#066	Zhaojun Meng	Discovery and characteristics of Chalukou giant porphyry molybdenum polymetallic deposit in forest-covered area of northeastern Greater Hinggan Mts, NE-China
	#067	William Mercer	Health and Safety in the Field – a study by the Prospectors and Developers Association of Canada
	#068	Neil Wilkins	The Rannes gold and silver discovery - opening up the Bowen Basin as a precious metal province

Poster Session - Monday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
	#069	Tai Tian Zhu	Space exploration - a new trend to be about to swept geoscience and the mining industry
9.3	#070	Guochen Dong	Zircon U-Pb dating and geochemical constraints on evolution of the Paleo-Tethys: Evidences from the Lincang granite in Western Yunnan, China
	#071	Teodoro Isnard Ribeiro De Almeida	LAICPMS U/Pb zircon ages from host rocks of Curral Novo do Piauí iron formation, PI (Brazil).
	#072	Zhiqiang Kang	40Ar-39Ar Geochronology of Muscovite from Shuiyanba Tungsten-tin Ore Field in Northeastern Guangxi, Southern China: Geological Significance and Relationships with the Yanshanian Metallogenic Explosion
	#073	Kalin Kouzmanov	Timing of porphyry emplacement in the Miocene Morococha district, central Peru: U-Pb and Ar-Ar geochronological record
	#074	Alexander Kremenetskiy	Provenance and formation model of Ti-Zr placers of Murray basin (southeastern Australia) from SHRIMP data on dating recrystallization crystals
	#075	Alexander Kremenetskiy	Zircon recrystallization rims as an indicator of U-Pb age of ore formation processes
	#076	Neng-Ping Shen	Sr and Pb Isotopic Study of the Carbonate-hosted Xujiashan Antimony Deposit from Hubei Province, South China: Implications for its Origin
	#077	Junfeng Shen	Timing and genesis of the Beiminghe iron deposit, south of the Taihang Mountain(TM), Hebei province, eastern China
	#078	Bailin Wu	The Hydrothermal Zircon Geochemistry, LA-ICP-MS U-Pb Dating in DaChang Gold Deposit, QingHai Province
	#079	Da Zhang	Geochronology of Diagenesis and mineralization of the Luoyang Iron Deposit in Zhangping City, Fujian, China, and its Geological Significance
	#080	Da Zhang	LA-ICPMS Zircon U-Pb dating of Granitoid Porphyry in the Jiaochong Gold and Sulfide deposit, Tongling, China, and Its Significance
	#081	Da Zhang	Rb-Sr Dating of Sphalerite from the Lengshuikeng Ag-Pb-Zn Deposit, Jiangxi, China, and Its Geological Significances
	#082	Yan Zhang	Application of thermodynamics pH — Eh to metal mineral zoning of sandstone-hosted copper deposits in Chuxiong basin, central Yunnan
9.9	#083	Alexei Aleshin	Revealing of deep structures of the Streltsovsky ore field (Eastern Transbaikalia, Russia) by microseismic sounding for elaboration of genetic model of giant Mo-U deposits.
	#084	Nelson Angeli	Bauxitic ore associated to charnockitic rocks in the eastern region of Brazil
	#085	Peter Laznicka	Lithothèque-style national databases as part of a global information system on mineral deposits
	#086	Chunhui Li	Behaviors of mantle fluid during mineralizing process: Jinding super-large Pb-Zn Deposit, Yunnan Province, China
	#087	Taochang Liu	Occurrence of arsenic and its influence on precipitation of gold in the Jinlongshan gold deposit, southern Qinling Mountains, China
	#088	Siqi Shu	A case study on rational exploration and development of large and super-large deposits

Poster Session - Monday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
	#089	Anatoly Zhirnov	The new gold-iron ore giant in Russia in the Jewish Autonomic Region (Far East)
11.1	#090	Anatoly Dmitrievskiy	Geological and environmental challenges in the development of Arctic hydrocarbon resources
	#091	Peter Japsen	Episodic, post-rift burial and exhumation along Atlantic passive margins: implications for hydrocarbon prospectivity
	#092	Grzegorz Lesniak	An attempt of reinterpretation of oil system in the Carpathians
	#093	Natalia Nassonova	The affect of regional geologic features of the south-eastern part of the West Siberian basin on Upper Jurassic and Upper Cretaceous petroleum potential
	#094	Alessandra Negri	Carbonate conduits linked to hydrocarbons enriched seepages
	#095	Yamin Zhang	Petroleum System and oil Exploration in the Dongpu Depression of Bohaiwan Basin, Eastern China
12.3	#096	Zhong Chen	Characteristics and implications of magnetic susceptibility and carbonate minerals of sediments in core 08CF7 from the Baiyun sag in the northern South China Sea
	#097	Masayo Kakumoto	Basic study on frictional strength between sediment and methane hydrate production well
	#098	Seong-Pil Kang	Spectroscopic identification on molecular behaviors of binary gas hydrates in the presence of ethanol
	#099	Yongwon Seo	Sequestering carbon dioxide into naturally occurring gas hydrates
	#100	Xin Su	Late Quaternary sediment Core 973-5 record turbidity currents and methane venting in the abyssal cold seep Haiyang 4 area , the northern South China Sea
	#101	Tomoya Tsuji	Estimation of thermal conductivity and heat transfer for hydrate sediment by use of a explicit numerical calculation
	#102	Tatsuya Yokoyama	Seafloor deformation monitoring for methane hydrate production test
	#103	Jun Yoneda	Prediction of long-term seabed deformations due to methane hydrate production in turbidite reservoir
	#104	Yongqin Zhang	Research progress of drilling coring and mining on the permafrost natural gas hydrates in China
	#105	Alessandro Batezelli	Systems tracts and palaeoenvironmental changes of neocretaceous continental basins in the southeast of South American Plate
	#106	Bruno Boito Turra	Modes of mud preservation in a pre-vegetation sandy perennial fluvial system: the Tombador Formation, Mesoproterozoic of Central Brazil
	#107	Isabelle Cojan	Climatic control on from paleosol development in a fluvial succession during the lower to middle Miocene (Digne Valensole Basin, France)
	#108	Marc De Batist	Multibeam swath bathymetry of a large, tectonically active, intra-continental rift lake: Lake Baikal, Russian Federation
	#109	Bernardo Freitas	A Neocomian to Aptian big river in NE-South America?
	#110	Yury Golubev	Peculiarities of transportation of debris material in till based on tracking local holes of indicator minerals
	#111	Stephen Hasiotis	A deep-time perspective of organisms as a major soil-forming factor, ecosystem geoengineers, and their significance to the evolution of the critical zone

Poster Session - Monday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
	#112	You Liang Ji	Effects of Paleo-topography to The Distribution of Sedimentary System In Cretaceous of Hailaer Rift Basin, China
	#113	Inna Kozhevnykh	Regularities in sedimentation of Upper Paleozoic of Siberia (facial-genetic analysis, sedimentation model)
	#114	Chang Woo Kwon	Basin-forming volcanic activities in the Miocene Eoil Basin, SE Korea: differential tectonic-volcanic processes for volcanic geometry
	#115	Hao Liu	Establishing the sequence stratigraphic framework of depressed lacustrine basin in its shrinking period using multi-method and technology: A case of the Neogene of Huanghekou Sag, Baohai Bay Basin, China
	#116	Luciana Orlando	Analysis of active sedimentary process in the lower coarse of the Tiber river (Rome, Italy) through high-resolution geophysical data and samples
	#117	Silvia Beatriz Alves Rolim	2D geophysical modeling of the Rift Guaritas, southern Brazil
	#118	Yuanfu Zhang	Sedimentary characteristics and controlling factors of lacustrine beach-bars reservoir
	#119	Junfeng Zhao	Reconstruction of the original sedimentary boundary in the Bathonian-Callovian of middle Jurassic of the Ordos Basin, China
14.1	#120	Laurent Beccaletto	Jurassic palaeogeography of the Poitou high (western France), influence of the variscan orogene structural inheritance on the onset of a mesozoic sedimentary basin
	#121	Jörg Ebbing	Lithospheric structure of the North-East Atlantic margin from modelling of gravity gradients, gravity and the geoid
	#122	Bizhu He	Unconformity of the Middle-Late Caledonian in Tarim Basin and its response to tectonic movement of periphery orogen belts, northwest China
	#123	Yiquan Li	3D strain restoration and paleomagnetic analysis of fault-related folds: An example from the Yanjinggou anticline, southern Sichuan Basin
	#124	Zhongquan Li	Evolution of Fengshunchang and Tianjingshan structures in the Northern section of the Longmen Mountain, China
	#125	Aline Saintot	Fracture sets, kinematics and ductile fabric inheritance of the Møre-Trøndelag Fault Complex, Mid Norway
	#126	Li-Jun Song	U-Pb Chronological Characteristics of Late Triassic Sediment in Southwestern Ordos Basin and its Tectonic Significance
	#127	Jianqiang Wang	Cenozoic sedimentary and tectonic migration characteristics in Qikou depression of Bohai basin, China
	#128	Hongge Zhao	Characteristics of later different reformation and its significance in occurrence of multi-energy deposits in Ordos Basin
15.1.01	#129	Francois Bache	Paleogeographic evolution of the Northern Lord Howe Rise: evidence of land between New Caledonia and Australia during the Cenozoic
	#130	Adilkhan Baibatsha	Geological structure and geodynamic development of Kazakhstan Territory
	#131	Grace Barber	Innovative plate reconstruction + 3D slab model = Evidence for slab detachment beneath the North Fiji Basin from 5Ma.

Poster Session - Monday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
	#132	Yang Chu	Early Mesozoic tectonic evolution of the Xuefengshan intracontinental belt in the South China Block, East Asia: Effect of the Paleo-Pacific subduction?
	#133	Carmen Gaina	Cretaceous Evolution of the Indian Plate and Consequences for the Formation, Deformation and Obduction of Adjacent Oceanic Crust
	#134	Sara Istekova	An assessment of upper mantle heterogeneity beneath Southern Kazakhstan based on geological-geophysical data
	#135	Michelangelo Martini	The accretion of the Guerrero terrane to North America and its possible relationship to the Mexican Laramide orogeny
17.1	#136	Christopher Hatton	Constant mantle oxygen fugacity and the evolution of the crust
	#137	Kazuyasu Shindo	Two types of Cr-spinels in serpentinites from the Barberton granite-greenstone terrain – implications for tectonic setting
21.4	#138	Jianhui Cai	Geochronology and lithogeochemistry of Indosinian alkaline intrusive rocks in the northern margin of North China Craton
	#139	Brigida Castro De Machuca	New finding of peralkaline volcanism in the eastern margin of the Sierra de Valle Fértil, Western Sierras Pampeanas, NW Argentina
	#140	Yaron Finzi	The initiation of rifting: Interaction between melt and shear bands in pure shear extension
	#141	Carlos Eduardo Ganade De Araujo	Geochemical constraints on the Cr/PGE-bearing Tróia Unit from the Cruzeta Complex, Ceará Central Domain, Borborema Province (NE-Brazil): a sanukitoid connection?
	#142	Kirsten Nicholson	The Nouméa Basin, New Caledonia: three phases of volcanism from the Late Cretaceous to the Oligocene.
	#143	You-Qiang Qi	Geochemical and isotopic compositions of Mesozoic mafic rocks from the Gan-Hang tectonic belt, South China: Constrains on their petrogenesis and geodynamic significance
	#144	Jiansheng Qiu	Geochronology and geochemistry of the Mesozoic potassic and sodic volcanic rocks in Tangtou basin, Shandong Province: Implications for lithospheric thinning beneath the North China Craton
	#145	Jiansheng Qiu	Petrogenesis of the Zhangpu composite granite pluton in the southeast coast of Fujian, South China: Evidence from in situ zircon U-Pb ages, Hf isotopes and whole-rock geochemistry
	#146	Excelso Ruberti	Petrological evidences of magma mixing/mingling between potassic SiO ₂ -undersaturated series from the Banhadão alkaline complex, SE Brazil
	#147	Excelso Ruberti	Post-Paleozoic magmatism in Angola and Namibia: a review
	#148	Excelso Ruberti	Chemical composition of eudialyte from Buzios Island alkaline massif, Southeastern Brasil
	#149	Excelso Ruberti	An olivine gabbro-norite occurrence associated with the Jacupiranga mafic-ultramafic alkaline-carbonatite complex (SE, Brazil)
	#150	Tao Sun	The discovery, Petrogenesis and Tectonic Significance of an Indosinian granite: Luoguyan pluton from Fujian Province in South China
	#151	Koichi Terasaki	Low viscosity structures of the rhyolite lava robe like basaltic pillow lobes on the Yahiko seaside in the Central Japan

Poster Session - Monday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
	#152	Haijin Xu	Late Mesozoic Fangshan mafic dykes, high-Mg adakitic enclaves and low-Mg adakitic host in the North China Craton: petrogenesis and implications for crust-mantle interaction
	#153	Xuehui Yu	The mantle and crustal xenoliths in Cenozoic alkaline igneous, Western Yunnan: implication to lithospheric structure of Western Yunnan
22.1	#154	Monica Erdman	A possible unified model for the exhumation of HP and UHP metamorphic rocks with insights from the Franciscan complex, California
	#155	Fiona Mothersole	Geochemistry of serpentinization and geological setting
	#156	Elena Negulescu	Chromian nodules hosted in eclogitized picritic basalts in the Leaota Massif (South Carpathians)
	#157	Burenjargal Ulziiburen	High-T metamorphic rocks and exhumation process: P-T path deduced from metapelites from the Tseel terrane, Southwestern Mongolia
	#158	Guibin Zhang	From oceanic subduction to continental collision, an overview of the tectonic evolution of the North Qaidam UHPM belt, NW China
23.4	#159	Vivien Cumming	Re-Os geochronology of lacustrine organic-rich rocks: Insights into the Mesoproterozoic terrestrial environment
	#160	Kathleen Grey	Mesoproterozoic biostratigraphy of the Beetaloo Sub-basin, Northern Territory, Australia
	#161	Kathleen Grey	The Lomagundi-Jatulia event in the Bubble Well Member, Juderina Formation, Yerrida Basin, Western Australia
25.1	#162	Marina Ciummelli	Evolution of calcareous nannofossil genus Discoaster in the Miocene: data from equatorial Pacific deep-sea sediments (IODP Expedition 320/321, Site U1338)
	#163	Carol Cotterill	Expedition 347: Paleoenvironmental evolution of the Baltic Sea Basin through the last glacial cycle.
	#164	Nianqiao Fang	Hydrous Transmagmatic Fluid Contribution to the Formation of Oxide Gabbros in Unit 4, ODP 735B Core, Southwest Indian Ridge
	#165	Yuki Kobayashi	Fluctuations of stable carbon isotope ratio in organic matter - example from the IODP Site U1352 offshore Canterbury, New Zealand -
	#166	Megumi Nakamura	Vertical sea-level changes of the Plio-Pleistocene sediments in Canterbury Basin, off New Zealand based on fossil ostracode assemblages
28.1	#167	Keshav Aradhi	Investigation of hydrochemical factors and groundwater quality assessment in an industrial area using multivariate statistical techniques
	#168	Peter Dahlqvist	A non-monetary relative evaluation of Sweden's aquifers: method and results
	#169	Kunio Furuno	Management of the Kanto Groundwater Basin, including Tokyo Metropolitan Area, Japan
	#170	Frederic Huneau	Hydrogeochemical and isotopic characterization of the carbonate aquifers of the Bangui urban area (Central African Republic)
	#171	Renata Kadlecova	Review of groundwater resources in the Czech Republic

Poster Session - Monday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
	#172	Atsushi Kagawa	Groundwater basin and land subsidence monitoring system in Chiba Prefecture, Japan
	#173	Dulat Kalitov	Thermal waters of South-Eastern part of Kazakhstan
	#174	Martin Labadz	Simulation of land use impacts on water balance of a subtropical ungauged catchment using the Soil and Water Assessment Tool (SWAT), Elimbah Creek, southeast Queensland, Australia
	#175	Yen-Tsu Lin	Ground-water exploration in regolith-bedrock aquifer: a case study in the basins of Upper-Jhuoshuei River and Dajia River, Central Taiwan
	#176	Christoph Lohe	Combination of user friendly Decision Support Systems with numerical solutions for groundwater flow and water balance for effective water resource management on basin scale in the Cuvelai-Etoshia Basin, Namibia
	#177	Martin Quinger	Digging Deeper: from modern exploration to sustainable groundwater management in Northern Namibia.
	#178	Sueli Yoshinaga Pereira	The actual situation of groundwater quality downstream of an old vinasse storage tank, in Serra Azul municipality, São Paulo State, Brazil
	#179	Vyacheslav Zavaley	Ground waters of Caspian depression suprasalt complex
29.2	#180	Greg Heath	The Dissolution of 2600 million year old Karst, Transvaal Supergroup: South Africa
	#181	Relu Dumitru Roban	Clastic cave sediments: facies and hydrodynamic characteristics. Examples from the Romanian Carpathians
	#182	William Sallun Filho	Karst geology and geomorphology of the André Lopes carbonate plateau, southeastern Brazil
30.7	#183	Haunan Afif	Shear wave velocity (Vs) mapping in Salakan, Yogyakarta using CMPCC MASW for lithology delineation and geotechnic
	#184	Chang-Bock Im	Review on probabilistic approach of seismogenic potential for faults in Korea
	#185	Arun Kumar	Micro Deformations Evidences along Strike Slip Fault in Manipur, India
	#186	Weiping Lian	Shallow structural features of the Longmenshan fault zone and the mechanical relationship among the major faults
	#187	David Love	Earthquake depths in Australia
	#188	Alexandr Salnikov	Studies of the fractured zone of the Chuya earthquake and their results applied to problem solving of petroleum geology of the Siberian Platform
	#189	Devesh Walia	Radon Variation in Soil-Gas and Seismotectonics of the Shillong Plateau
	#190	Zhixian Yang	The hypocenter and origin time of the MW7.9 Wenchuan earthquake of May 12, 2008
31.1	#191	Nadezda Anisimova	Karst sinkhole database for Moscow territory
	#192	Ivan Brazhnik	Geotechnical and engineering-geological conditions into consideration during constructions design
	#193	Jose Gabriel Salminci	Geotechnical characterization of rocks for housing construction in Zapala, Neuquen Province, Argentina.
	#194	Ekatherina Wagenknecht	Applications of Geophysical Technologies at Sensitive Terrestrial and Coastal Sites in Massachusetts, USA

Poster Session - Monday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
34.3	#195	Ke Gao	The design and research of the winch structure in the automatic feed drilling system with a low power motor
	#196	Ke Gao	The technical characteristics and casing program of the Former Soviet Union's ultradeep drilling in Kola Peninsula, the German KTB ultra-deep drilling, and the CCSD in China
	#197	Ke Gao	Innovation development of pipe handling system in 10 km Drilling Rig project
	#198	Ke Gao	Wind-induced response analysis of Derrick of 10 km Drilling Rig
	#199	Ke Gao	Modeling and Simulation of Brake mechanism of New auto-driller system based on AMESim
	#200	Lianghui Guo	New gravity and magnetic data interpretation on seafloor spreading model of the ocean basin, the South China Sea
	#201	Lu Han	SinoProbe data sharing and Application Integration
	#202	Qingye Hou	Characteristics on lower crust in North China Craton (NCC) by deep-seat xenoliths: A review
	#203	Guoming Jiang	Study on the structure of crust and mantle beneath the middle and lower Yangtze region
	#204	Jialin Liu	A real-time risk assessment model for super deep scientific drilling
	#205	Baochang Liu	Drilling performances of polycrystalline diamond compact drill bit inspired by claw of mole cricket
	#206	Baochang Liu	Experimental analysis on WC matrix composites prepared by hot-pressing sintering
	#207	Qingtian Lu	Crustal Structure of Tongling Ore District and its Control on Mineral Genesis, as Revealed by Integrated Geophysical Profiles
	#208	Youhong Sun	High Speed And High Torque Hydraulic Topdrive for SinoProbe
	#209	Jiahao Wang	Pseudo-random Sequence for EM-MWD Applications
	#210	Xuechun Xu	Geochemistry Characteristics and Geological Significance of Late Palaeozoic Granitoids in North Margin of the North China Plate
	#211	Changli Yao	Research on iteration method used in potential field transformations
	#212	Wenlan Zhang	Window of insidious wolfram-bearing granite--- A case study of tungsten mineralized granitic xenolith in Dajishan granite, South Jiangxi Province, China
	#213	Xuetong Zhang	Experimental study on syenite -water interactions at temperatures up to 435°C and at 23 to 36 MPa

Tuesday Program

TUESDAY 7 AUGUST 0830 - 1045

1.2 - Session 1 - Geoscience education

0830 - 1045

Arbour Meeting Room 2

Time		
0830	#1348	The process of middle school students' model construction in earth science learning Min-Suk Kim
0845	#1349	Visitors' expectations of learning effects in the science museum Youjin Jung
0900	#1350	<i>Opening worlds with open content</i> Mary Marlino (Keynote)
0930	#1351	An Issues on Geoscience Education of Middle School Level in Japan: Before and After the Big Earthquake Norihito Kawamura
0945	#1352	International Earth Science Olympiad - IESO 2011: analysis of students tests results Roberto Greco
1000	#1353	Using Minecraft as a vehicle to facilitate student engagement and learning. Steven McClean
1015	#1354	Geological component of the Russian school Evgeny Nesterov
1030	#1355	How to improve teachers' motivation to educate in Geology within the Swedish school system Vivi Vajda

2.5 - Session 1 - Mineral and energy resources, construction and industrial minerals and the role of women in resource development

0830 - 1030

GeoExpo Hospitality Room 2

Time		
0830	#1356	<i>Role of mineral resources in development of low income countries</i> Md. Nehal Uddin (Keynote)
0900	#1357	The Geological GIS Project - building a free open source, integrated, geoscience software package with new information quality and visualisation capabilities Robert Barnes
0915	#1358	Mapping for sustainable futures - in mining and gas developments in Australia as applied to low income countries Jennifer Joi Field
0930	#1359	Geology and Minerals of Ukraine in Brief Borys Maliuk
0945	#1360	Integrated Prospecting of "Calcrete Type Uranium Deposit" in The Thar Desert, India Kanhaiya Lal Shrivastava

3.3 - Session 1 - Monsoons, droughts and extreme weather events: deciphering climate variability from the geological record

0830 - 1030

Boulevard Meeting Room 1

Time		
0830	#1361	The Late Triassic (Carnian) wet intermezzo caused by plate tectonics and monsoonal shift Gerhard H. Bachmann
0845	#1362	Tectonic and Climatic influences on the Erosion of Eastern Loess Plateau in Quaternary Hongming He
0900	#1363	Palaeoenvironmental conditions during the formation of intrabasaltic bole beds from the part of Deccan Traps, India Uday Kulkarni

TUESDAY 7 AUGUST 0830 - 1045 continued

0915	#1364	Geochemical indicators of the variations in the palaeoclimate in lateritic profile: A case study from western Deccan Volcanic Province. Mohammed Rafi Sayyed
0930	#1365	Climatic imprints studied from the geochemistry of different laterite profiles from the Deccan basalts of India Irfan Shaikh
0945	#1366	Magnetic fabric of red clay from the Lingtai profile in the Chinese Loess Plateau: Evidence for paleowind and paleocurrent directions Rui Zhang
1000	#1367	Influence of ENSO on distributions of sedimentary GDGTs in the Qinzhou Bay, Southwest China Jianfang Hu
1015	#1368	The dimension figure of dust particle on different underlying in Minqin oasis Kejie Zhan

4.1 - Session 1 - Environmental aspects of mining

0830 - 1030

Plaza Meeting Room 4

Time		
0830	#1369	Strategic Environmental Assessment (SEA) and a Strategic Environmental Management Plan (SEMP) for the Central Namib Uranium Rush in Namibia Gabi Schneider
0845	#1370	The Nigeria Mining Sector: An overview of Economic Implications, Environmental Degradation and Impact on Climate Change. Abbas AbdulRafiu
0900	#1371	Elements - admixtures as an ecological risk factor induced by mining operations Armen Saghatelian
0915	#1372	The Importance of Metal Speciation in Risk Assessment William Stiebel
0930	#1373	3D regional model of the Arc Basin (South of France) to respond to after-mining needs Sunsearé Gabalda
0945	#1374	<i>Sustainability in metal mining: from exploration, over processing to mine waste management</i> Bernhard Dold (Keynote)
1015	#1375	Environmental disturbance characterised through spillage from underwater dredging/mining cutting Neil Bose

5.1 - Session 3 - Geoscience spatial data infrastructure *Sponsored by IHS Global Limited*

0830 - 1030

Boulevard Meeting Room 3

Time		
0830	#1376	<i>AEGOS - The Spatial Data Infrastructure for Georesources in Africa</i> Marc URVOIS (Keynote)
0900	#1377	AEGOS - Common strategies for capacity building and training programmes Bernd Torchala
0915	#1378	AEGOS - Technical architecture for multilingual web access to georesources information in Africa Dana Capova
0930	#1379	AEGOS - Data, products, services and examples of innovative spin-off projects based on AEGOS SDI Imasiku Nyambe

TUESDAY 7 AUGUST 0830 - 1045 continued

0945	#1380	The Geoscience InfoRmation in Africa Network (GIRAF): A Contribution to a Sustainable Improvement of Prosperity and Health in Africa Kristine Asch
1000	#1381	Contributions to a New Zealand spatial data infrastructure Soren-Nils Haubrock
1015	#1382	Federating hydrogeological data to visualise Victoria's groundwater Peter Dahlhaus
5.6 - Session 3 - Geoscience information synthesis for mineral prospectivity mapping 0830 - 1030 Boulevard Auditorium		
Time		
0830	#1383	Prospectivity analysis for magmatic nickel deposits using fuzzy logic data integration method and receiver operating characteristics (ROC) model validation in the Central Lapland Greenstone Belt, northern Finland Vesa Nykanen
0845	#1384	<i>Addressing challenges with exploration datasets to generate usable mineral potential maps</i> Arianne Ford (Keynote)
0915	#1385	Modelling uncertainty of mineral prospectivity maps - an application to fuzzy logic prospectivity analysis Vladimir Lisitsin
0930	#1386	<i>Fuzzy inference systems for predictive modelling of complex mineral systems</i> Alok Porwal (Keynote)
6.1 - Session 3 - CO₂ geosequestration Sponsored by CO₂ CRC 0830 - 1045 Mezzanine Room 1		
Time		
0830	#1387	Benchmark calibration and prediction of the Sleipner CO ₂ plume from 2006 to 2012 Andrew Cavanagh (Invited)
0845	#1388	The Collie South West Hub Project: static and dynamic models of CO ₂ storage in the Lesueur Sandstone Suzanne Hurter
0900	#1389	Numerical simulation of reactive transport in saline aquifers for CO ₂ geological storage: Italian case studies Barbara Cantucci
0915	#1390	PRESENTATION CANCELLED
0930	#1391	CO ₂ storage potential assessment through reservoir modelling: A case study of the Upper Campanian Caswell Fan, Browse Basin, Australia Liuqi Wang
0945	#1392	Large-scale numerical simulations for CO ₂ injection into a low permeability multiple-aquifer system Keni Zhang
1000	#1393	<i>The Pilot Site Ketzin in the European Framework of CO₂ Storage</i> Michael Kühn (Keynote)
1030	#1394	Baseline of Soil CO ₂ Flux in the Hontomin Site (Burgos, Spain) Barbara Nisi

TUESDAY 7 AUGUST 0830 - 1045 continued

7.5 - Session 1 - Geometallurgy Sponsored by Surtron

0830 - 1030

Plaza Meeting Room 3

Time		
0830	#1395	Using calculated mineralogy in geometallurgy Julie Hunt
0845	#1396	Mapping chemical speciation: Development of micro-XANES imaging techniques Stacey Borg
0900	#1397	Moving beyond the average! Geometallurgy - A key for resourcing tomorrow today John Jackson
0915	#1398	Mapping Crushing Hardness using RBT A*b Express Test Toni Kojovic

8.1 - Session 1 - Footprints of mineralised systems: new concepts and data for exploration

Sponsored by Rio Tinto

0830 - 1045

Mezzanine Room 2

Time		
0830	#1399	<i>New advances in geochemical exploration for porphyry deposits in green rock environments</i> David Cooke (Keynote)
0900	#1400	Exploring for buried porphyry and high-sulfidation epithermal deposits using signals in lithocaps: Implications from the Lepanto-FSE system, Philippines Zhaoshan Chang (Invited)
0915	#1401	Contribution of mantle components in juvenile lower-crust to collisional zone porphyry Cu systems in Tibet Zengqian Hou
0930	#1402	Multiple hydrothermal systems in coastal northern Chile and the footprints of IOCG systems Mark Barton (Invited)
0945	#1403	Characterisation of alteration related to iron oxide copper gold mineral systems on the eastern margin of the Gawler Craton, South Australia. Adrian Fabris
1000	#1404	Detection of Alteration Minerals Using Imaging Spectroscopy: Applications to the Afghanistan HyMap Data Set Todd Hoefen
1015	#1405	Use of Pearce element ratios to vector to basement-hosted uranium mineralization: Methodology, pitfalls, and examples from the Athabasca Basin, Canada Irvine Annesley
1030	#1406	High Ti/Zr Stream Sediments in a Sand Dune-dominated Environment Roger Fidler

9.2 - Session 1 - Volcanic and basin-hosted ores (Fe, Zn-Pb, Cu, U)

0830 - 1030

Great Hall 4

Time		
0830	#1407	Deciphering the hydrothermal evolution of a VMS deposit using trace elements in pyrite by laser ablation ICP-MS: an example from the Matagami mining camp, Abitibi, Canada Dominique Genna
0845	#1408	Radiogenic isotope ratios and their bearing on volcanic-hosted massive sulfide and komatiite-associated nickel sulfide endowment of Archean terranes David Huston
0900	#1409	<i>Volcanology of the giant Horne massive sulfide deposit, Rouyn-Noranda, Québec</i> Thomas Monecke (Keynote)

TUESDAY 7 AUGUST 0830 - 1045 continued

0930	#1410	Hurgledurgles as a guide to ore at Mt Morgan and the Dee Range, Central Queensland Alex Taube
0945	#1411	Occurrence of sulfides accompanied by abundant clay minerals revealed by shallow drilling in an active seafloor hydrothermal field in the Okinawa Trough, back-arc basin Jun-Ichiro Ishibashi
1000	#1412	Seafloor hydrothermal activity and associated mineralization at Clark cone volcano, Kermadec arc, New Zealand Cornel De Ronde

9.9 - Session 3 - Giant and super giant orebodies [Society of Economic Geologists]

Sponsored by Rio Tinto

0830 - 1030

Great Hall 3

Time		
0830	#1413	<i>The Carbon Leader Reef in the Witwatersrand Basin; Why is it such a Unique Supergiant Gold Deposit?</i> Ross Large (Keynote)
0900	#1414	Origin and geochemical evolution of the Ladolam Au low-sulfidation deposit, Lihir Island, PNG Mathieu Ageneau
0915	#1415	Metallogenic characteristics and formation mechanisms of the Zhaishang gold deposit, southern Gansu, China Jiajun Liu
0930	#1416	Marmato biggest Colombia gold deposit: geological evolution and resources Vicente Mendoza Sanchez
0945	#1417	Iron Ores: Firing the Chinese Dragon Martin Wells
1000	#1418	The characteristics and genesis of the massive nitrate deposits in the Turpan-Hami basin of Xinjiang, China Wensheng Ge
1015	#1419	Giant metallic deposits: the past twenty years Peter Laznicka

11.5 - Session 1 - Onshore Frontier Basins

0830 - 1030

Mezzanine Room 3

Time		
0830	#1420	<i>Architecture of Australian frontier onshore sedimentary basins, as imaged by new deep seismic reflection profiles</i> Lidena Carr (Keynote)
0900	#1421	São Francisco Basin: New Perspectives to Exploration of the Brazilian Precambrian Ivo Trosdorf Junior
0915	#1422	Planetary and regional aspects of development and structure of northern Siberia oil and gas bearing clinoform complexes Sergey Karpukhin
0930	#1423	Interpretation and Modeling of the Pedirka Basin (central Australia) using Magnetism, Gravity, Welllog and Seismic data Christopher Bishop
0945	#1424	Seismic survey reveals Paleozoic regional occurrence in Central Brazil Kátia Da Silva Duarte
1000	#1425	A regional scale 3D geological model of the Fitzroy Trough Canning Basin, Western Australia Gilberto Sanchez

TUESDAY 7 AUGUST 0830 - 1045 continued

12.1 - Session 1 - Coal seam gas *Sponsored by QGC*

0830 - 1030

Mezzanine Room 4

Time		
0830	#1426	<i>Petroleum systems elements of world class coal seam gas plays in the Taroom Trough and Surat Basin in Queensland, Australia</i> Robbert Willink (Keynote)
0900	#1427	The law and reality of the Coal Seam Gas (CSG) industry in NSW & Queensland Adam Edwards
0915	#1428	Update on the character, resource and activity of Indonesian coalbed methane Tim Moore
0930	#1429	Description of a CO ₂ enhanced coal bed methane field trial using a multi-lateral horizontal well Luke Connell
0945	#1430	Preliminary evaluation of the coalbed methane reservoir characteristics and its geological factors in Jungar Coalfield, Inner Mongolia Yongkai Qiu
1000	#1431	Microbial Methane Formation in Abandoned Coal Mines in Germany Sabrina Beckmann

13.2 - Session 1 - Recent to Modern Coastal and Shallow Marine Systems (1)

0830 - 1030

Plaza Meeting Room 2

Time		
0830	#1432	<i>Sedimentary infill of incised valley systems and geomorphological change on the southeast coast of Australia over the last glacial cycle</i> Craig Sloss (Keynote)
0900	#1433	Upper Pleistocene to Holocene coastal apron-fan system of NW Sardinia (Mediterranean Sea, Italy): evolution and architecture Vincenzo Pascucci
0915	#1434	Autogenic Process Change in Modern Deltas: Lessons for the Ancient Cornel Olariu
0930	#1435	Distributary channels of the Mitchell River delta, Australia: sedimentology, architecture and their relation to delta morphology Tessa Lane
0945	#1436	High resolution stratigraphy of the Holocene Volga delta, a response to rapid sea level change. Robert Hoogendoorn
1000	#1437	Late Holocene evolution of the Plymouth Bay system, Massachusetts, USA Allen Gontz

14.2 - Session 1 - Fold and Thrust Belts

0830 - 1030

Plaza Meeting Room 6

Time		
0830	#1438	<i>Retro-Arc Fold and Thrust Belt Systems of the Andean Cordillera</i> Ken McClay (Keynote)
0900	#1439	<i>Foothills: drilling blind, side-tracking and desperately struggling with seismic.</i> Jean-Claude Ringenbach (Keynote)
0930	#1440	2D and 3D structure of the Papua New Guinea Fold Belt Kevin Hill
0945	#1441	Tectonic expression of a retreating subduction boundary in Sicily along the SIRIPRO crustal seismic profile Raimondo Catalano

TUESDAY 7 AUGUST 0830 - 1045 continued

1000	#1442	Contributions from offshore seismic data to understanding the evolution of the New Zealand continent Chris Uruski
15.1 - Session 3 - Slab Windows, Gaps and Tears 0830 - 1030 Great Hall 1&2		
Time		
0830	#1443	<i>Upper Mantle Flow in the Vicinity of Slab Windows and Slab Tears</i> Raymond Russo (Keynote)
0900	#1444	Displacement of the mantle wedge by upwelling anhydrous asthenosphere: the Northern Cordilleran slab window beneath western Canada Derek Thorkelson
0915	#1445	Slab Windows of the American Cordillera: What caused Farallon plate fragmentation? Stephen Johnston
0930	#1446	Mesozoic ridge subductions and copper mineralization in eastern China Weidong Sun
0945	#1447	Sub-parallel ridge-trench intersection along east Asia Maria Seton
16.3 - Session 1 - The crust-mantle lithosphere system 0830 - 1030 Plaza Meeting Room 1		
Time		
0830	#1448	The end of the Hadean: A global revolution William Griffin
0845	#1449	Crust - mantle relationships in the early Earth and the stabilization and preservation of cratons Stephen Foley (Invited)
0900	#1450	<i>Secular change and the crust-mantle lithosphere system: The view from the top down</i> Michael Brown (Keynote)
0930	#1451	Crust and mantle lithosphere relationships in the central Slave craton Sonja Aulbach (Invited)
0945	#1452	Nature of the crust-mantle boundary in diverse geodynamic settings: evidence from xenolith studies Jean-Yves Cottin (Invited)
1000	#1453	Destruction timing of the North China Craton Jin-Hui Yang (Invited)
1015	#1454	Tracking coupling and decoupling during lithosphere evolution with geochemistry and geochronology: a case history from Arctic Norway. Suzanne O'Reilly (Invited)
1030	#1455	Gold mobility in the mantle: Constraints from sulfides in variably metasomatised peridotites J. Edward Saunders
17.2 - Session 1 - Rates and mechanisms of Archean crust formation – the relative contribution of plume versus plate tectonics 0830 - 1030 Plaza Meeting Room 5		
Time		
0830	#1456	Zircon Hf-isotope record for the evolution of the Continental crust since 4.5 Ga Elena Belousova (Invited)
0845	#1457	Archean cratons and early Archean plate tectonic processes Dallas Abbott

TUESDAY 7 AUGUST 0830 - 1045 continued

0900	#1458	Geochemistry of exceptionally well preserved Eoarchean Mt Ada Basalts from the Pilbara, West Australia David Murphy
0915	#1459	Earth's changing thermal regime between 3 and 2.5 Ga: a primary control of planetary evolution? Kent Condie
0930	#1460	Archean crustal accretion processes and continental growth in the Dharwar craton: Implications for secular changes in geodynamic processes Mudlappa Jayananda
0945	#1461	3 Ga onset of the supercontinent cycle and modern-style subduction and hydrological weathering. Martin Van Kranendonk
1000	#1462	Structural and geochronological evidence from the Superior craton for the Neoarchean being a period of transition from vertical to horizontal tectonism Shoufa Lin
1015	#1463	Archaean asteroid impact clusters and the origin of c.3.2 Ga tectonic-magmatic-thermal events Andrew Glikson
1030	#1464	Neoarchean rock associations, structures and metamorphism of the Eastern Block, North China Craton: plate tectonics dilemma Guochun Zhao

18.1 - Session 1 - Building the Australian continent

0830 - 1030

Plaza Meeting Room 8

Time		
0830	#1465	Two collisions, two sutures: punctuated pre-1950 Ma assembly of the West Australian Craton during the Ophtharmian and Glenburgh Orogenies Simon Johnson
0845	#1466	The Albany-Fraser Orogen: redefinition of its significance through understanding Paleoproterozoic and Mesoproterozoic events Catherine Spaggiari
0900	#1467	<i>Geophysical constraints for unravelling the Proterozoic evolution of Australia</i> Russell Korsch (Keynote)
0930	#1468	<i>Mineral deposits as indicators of tectonic processes: some examples from Proterozoic Australia</i> David Huston (Keynote)
1000	#1469	Hf isotopic evolution of the North Australian Craton: constraints on crustal growth models. Russell Smits
1015	#1470	A Mesoproterozoic suture in northeastern Australia inferred from detrital zircon ages in Neoproterozoic metasedimentary rocks of the Thomson Orogen Christopher Fergusson

21.3 - Session 1 - Subduction zone magmatism including a special session on magmatism in the SW Pacific

0830 - 1030

Plaza Meeting Room 9

Time		
0830	#1471	<i>Magmatism along the Northern Margin of the Lau Basin</i> Richard Arculus (Keynote)
0900	#1472	Influence of arc proximity on back-arc seafloor spreading Fernando Martinez
0915	#1473	Non-traditional trace element investigations into arc magmatism Matthew Bliss

TUESDAY 7 AUGUST 0830 - 1045 continued

0930	#1474	The pyroxene sponge: amphibole signatures and controls on water in arc magmas Daniel Smith
0945	#1475	Evidence of deep lithospheric refertilization in a continental arc root from multiple generations of garnet and clinopyroxene in Sierra Nevada, CA mantle xenoliths Emily Chin
1000	#1476	Petrological evolution of the Stannett Creek Gabbro, Ravenswood Batholith, Queensland: An example of complex magmatic processing (including orbicule genesis) at the roots of a continental arc Mike (Michael) Rubenach
1015	#1477	A volcano-sedimentary succession with albitite layers in the pre-Variscan basement of NE Sardinia: a petrographical and geochemical study. Mariano Puxeddu

22.3 - Session 1 - Mechanisms of metamorphic reactions and fluid-rock interaction

0830 - 1030

Plaza Meeting Room 10

Time		
0830	#1478	<i>Earthquakes and high grade metamorphism</i> Håkon Austrheim (Keynote)
0900	#1479	Do externally-derived fluids influence the large-scale reactivation of continental interiors? Tom Raimondo
0915	#1480	Open grain and phase boundaries as fluid pathways in metamorphic and magmatic rocks Jörn H. Kruhl
0930	#1481	Evolution of textures of metapelites and deformation Kazuhiro Miyazaki
0945	#1482	Metamorphic density changes as key process to form anorogenic plateaus Roland Oberhänsli
1000	#1483	Dissolution-precipitation and reaction softening and hardening in the Red River shear zone, Yunnan Province, China. Robert Wintsch
1015	#1484	Surface modifications of some silicate mineral reacted with water at high temperatures above 300°C Shumin Hu

23.1 - Session 1 - Martin Glaessner Symposium: The Ediacaran and the Cambrian Explosion

0830 - 1030

Mezzanine Room 6

Time		
0830	#1485	<i>The legacy of Martin F. Glaessner to Earth history and the status of the Ediacara biota.</i> James GEHLING (Keynote)
0900	#1486	The evolutionary success: Sponges (Porifera) as living metazoan witnesses from the Neoproterozoic Werner E.G. Müller
0915	#1487	A two-step rise of oxygen concentration in shallow seas coinciding with the rise of animal life in the Ediacaran and Cambrian Kunio Kaiho
0930	#1488	New Ediacara-type organisms from black laminated microbial carbonates of the Shibantan Member of the Three Gorges Area (Dengying Formation, Hubei, China) Joachim Reitner
0945	#1489	Reconstructing Rangea from the Ediacaran of Namibia Guy Narbonne

TUESDAY 7 AUGUST 0830 - 1045 continued

1000	#1490	Fossil lagerstätten evidence of Ediacaran and Cambrian explosion from the Marwar Supergroup, Rajasthan, India Mukund Sharma
1015	#1491	Paleoecological reconstruction of the Late Vendian benthic Metazoan communities from the White Sea (Russia) Maria Zakrevskaya

25.2 - Session 1 - Palaeoceanography and sea-level records

0830 - 1045

Qld Museum Theatre

Time		
0830	#1492	<i>Sea level chronology and the rapidity of ice-volume changes in climate change</i> Felco J. ROHLING (Keynote)
0900	#1493	A global archive of Quaternary sea level highstands from the Coorong Coastal Plain, southern Australia Colin Murray-Wallace (Invited)
0915	#1494	Quaternary palaeoshorelines and patterns of biodiversity on the Australian continental shelf Brendan Brooke
0930	#1495	Peru margin palaeoceanography since the Last Glacial Maximum and the long-term implications for El Nino-Southern Oscillation Greg Skilbeck
0945	#1496	Comparing delta 13C of <i>G. ruber</i> and <i>G. sacculifer</i> sheds light on the carbonate ion concentration of the surface ocean. Ryan Owens
1000	#1497	Neodymium isotope reconstruction of glacial water mass structure in the SW Pacific Ocean Taryn Noble (Invited)
1015	#1498	Sea level change over the past 2500 years from northeastern Australia Stephen Lewis
1030	#1499	The application of marine geophysics to understanding late Quaternary palaeoenvironments and early modern human dispersal in the southern Cape, South Africa Hayley Cawthra

28.2 - Session 1 - Groundwater processes: interactions, dynamics and response

0830 - 1045

Plaza Terrace Room

Time		
0830	#1500	Groundwater changes of the selected basins in northern China in the past fifty years Zongyu Chen
0845	#1501	Identification of groundwater-dependent terrestrial vegetation: an integrative approach in a semi-arid floodplain landscape, western NSW, Australia Laura Gow (Invited)
0900	#1502	TLERT: A Hydrogeophysical prospective to unsaturated zone Tanvi Arora
0915	#1503	Quantifying impacts of competing pore space usage in the Gippsland Basin aquifers Elise Bekele
0930	#1504	Groundwater dynamics in a coastal aquifer: combined effects of tides and beach profile Ying Zhang
0945	#1505	Difficulty in characterising fractured rock aquifer Katarina David

TUESDAY 7 AUGUST 0830 - 1045 continued

1000	#1506	Understanding groundwater recharge: the risks of relying on basic direct recharge models in floodplain settings Laura Gow
1015	#1507	A quantitative study on accumulation of age mass around stagnation points in nested flow systems Xiaowei Jiang
1030	#1508	Occurance and Origin of Fluoride and Arsenic in Groundwater of the Central Ethiopian Rift (CER) Basin, Ethiopia Stefan Wohnlich

29.1 - Session 1 - Landscape response to climate change: quantifying present and ancient rates of Earth-surface processes 0830 - 1030 Boulevard Meeting Room 2

Time		
0830	#1509	<i>10-Be, a powerful tool for quantifying present and ancient rates of Earth-surface processes</i> Paul Bierman (Keynote)
0900	#1510	Prolonged flooding by irrigation changes the geochemistry of Plintosols in Central Brazil Alfredo De-Campos
0915	#1511	A global view on chemical weathering considering supply limitation and soil shielding Nils Moosdorf
0930	#1512	The influence of climate on erosion rates in the central Andes Nadja Insel
0945	#1513	Linking orography, climate, and exhumation across the central Andes Jason Barnes
1000	#1514	Quantifying weathering and climate interactions with mass-independent uranium isotope fractionations Christa Placzek
1015	#1515	Past changes in sediment dynamics in the Himalayas inferred from uranium-series isotopes Anthony Dosseto

30.1 - Session 3 - Subaerial and submarine landslide hazards [IGCP585] 0830 - 1030 Sky Room

Time		
0830	#1516	Study on tsunami-causing huge landslide in Japan Yoshihiko Ito
0845	#1517	<i>Landslide Inventory and Susceptibility Zoning across Southeastern Australia</i> Phil Flentje (Keynote)
0915	#1518	Technical guidelines for Canadian landslide practitioners Peter Bobrowsky
0930	#1519	Landslide susceptibility zonation mapping, scale 1:200.000, for Ha Giang, Cao Bang, Tuyen Quang, Bac Kan provinces in the North-Eastern Vietnam Long Nguyen Thanh
0945	#1520	Landslide susceptibility mapping by two-class support vector machine: a case study in Hong kong Xin Yao
1000	#1521	Landslide Susceptibility Assessment Tools for ArcGIS 10 and their application. Jewgenij Torizin

TUESDAY 7 AUGUST 0830 - 1045 continued

31.2 - Session 1 - Engineering geology in major infrastructure developments

0830 - 1030

Mezzanine Room 8

Time		
0830	#1522	Contributions to engineering geology from the Snowy Mountains Hydro-electric development Robert Goldsmith
0845	#1523	<i>Multi-scale hydro-mechanical properties of crystalline basement rocks</i> Simon Loew (Keynote)
0915	#1524	An on-the-go Engineering Geological Assessment for Underground Unlined Rock Cavern Storage Facilities Ranjit Rath
0930	#1525	Quantitative assessment and zonation of regional crustal stability along the Yunnan-Tibet Railway line, China Yongshuang Zhang
0945	#1526	The new Romanian railways in a focal point in Transylvania: the importance of the geognostic surveys and laboratory tests. Adriano Fiorucci

32.3 - Session 1 - Earth's environment 1

0830 - 1030

F1 - Training Room

Time		
0830	#1527	Welcome and overview to Theme 32 "Geoscience Information From Proximal and Remote Sensing Technologies" Thomas Cudahy
0845	#1528	<i>Imaging Spectroscopy in the 21st Century for Remote Measurement and/or Monitoring of Geology, Ecosystems and Inland/Coastal Water Environments</i> Robert Green (Keynote)
0915	#1529	Quantifying The Uncertainties In The Use Of Remotely-Sensed Hyperspectral Imagery For Mineral Mapping Cindy Ong
0930	#1530	Utilization of ASTER VIS/SWIR/TIR time series data for mapping dynamics of desert sediment Veronika Kopackova
0945	#1531	National ASTER Geoscience Map Matilda Thomas
1000	#1532	Application of remote sensing and GIS mapping to Quaternary to Recent surficial sediments of the Central Uranium district, Namibia Kombada Mhopjeni

33.1 - Session 3 - Biographical studies of eminent geologists: a Symposium in honour of David Branagan

0830 - 1030

GeoExpo Hospitality Room 1

Time		
0830	#1533	Alexander von Mörk and Poldi Fuhrich - The conception of heroes in cave exploration in the early 20th century Johannes Mattes
0845	#1534	Carl Gustav Hedberg (1774-1827) and the beginnings of metallurgy of iron in Brazil Pedro Goncalves
0900	#1535	'A time for engineers and a time for geologists': scientific lives and different pathways in the history of Portuguese geology Teresa Mota

TUESDAY 7 AUGUST 0830 - 1045 continued

0915	#1536	Boris Sergeevich Sokolov: Russian Academician, geoscientist, naturalist, philosopher, historian and humanitarian in the 20th and 21st centuries. Patricia Vickers-Rich
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33.4 - Session 1 - Geology in tropical regions

0830 - 1030

Arbour Meeting Room 1

Time		
0830	#1537	<i>Problems and achievements of geology in tropical regions: a viewpoint from Brazil.</i> Silvia Figueiroa (Keynote)
0900	#1538	Encounters with Charles Hartt, Louis Agassiz, and the diamonds of Bahia: The geological activities of the Reverend Charles Grenfell Nicolay in Brazil, 1858-1869 Peter Downes (Invited)
0915	#1539	Prospecting Imperial Mexico (1864-1867) Luz F. Azuela
0930	#1540	From 1800 to 1900: Explorers by sea and land and the growth in knowledge of the geology of Australia's tropical regions Edmund Bernard Joyce (Invited)

35.1 - Session 1 - GSSPs (Global boundary-stratotype section and point) as global geostandards

0830 - 1030

Mezzanine Room 9

Time		
0830	#1541	Naming igneous units - more options needed? Catherine Brown
0845	#1542	Chronostratigraphic units for 21st century Earth system science Stanley Finney
0900	#1543	<i>Cretaceous Chronostratigraphy requires an interdisciplinary approach</i> Isabella Premoli Silva (Keynote)
0930	#1544	A new U-Pb zircon age for an ash layer at the Pliensbachian-Toarcian boundary, Argentina Alberto Riccardi
0945	#1545	Towards the definition of the GSSP of the Norian Stage (Upper Triassic): integrated stratigraphy and correlation of the two candidate sections Black Bear Ridge (BC, Canada) and Pizzo Mondello (Italy) Marco Balini

36.7 - Session 1 - Geoscience research and concepts from Asia and environs

0830 - 1030

Plaza Meeting Room 7

Time		
0830	#1546	Features of coal and engineering influence on the yield of coal seam gas drilling Xiaoming Wu
0845	#1547	Precious Metals in the Oil of the Oil Deposits of Western Part of Orenburg Region Ivan Alferov
0900	#1548	Study on the Devonian Tectonic-Lithofacies Palaeogeography in Tibet and its adjacent areas Yang Jiao
0915	#1549	Stratigraphic Classification and Sedimentary Characteristics of Early Carboniferous Hei Shantou group of Santanghu area, Xinjiang, NW China Zhou Xiaohu
0930	#1550	Grain size characteristics and their environmental indication of sediments in Beibu Gulf, the South China Sea Yaohong Shi

TUESDAY 7 AUGUST 0830 - 1045 continued

0945	#1551	Upper Palaeozoic Sedimentary Facies Types and Basin-Fill Succession in Zhaishang Area, Min County, Gansu Province, China Xunlian Wang
1000	#1552	Three modes of mantle plume ascension to form picrite flows, ophiolites and alpine peridotite intrusions Akira Ishiwatari
1015	#1553	Exploration of Regional surface average Heat Flow from Meteorological Geothermal Series Zhentian Sun
1030 - 1100		BREAK
1100 - 1200		Plenary Session 2: Energy in a carbon-constrained world Great Halls 1 & 2 Chair: Dr Peter Cook (Australia) Lord Ron Oxburgh (UK) Professor Scott Tinker (USA) Professor Sally Benson (USA)
1200 - 1300		LUNCH

TUESDAY 7 AUGUST 1300 - 1500

1.2 - Session 2 - Geoscience education 1300 - 1515 Arbour Meeting Room 2

Time		
1300	#1554	Deep learning through fieldwork in senior secondary earth science programs Bronte Nicholls
1315	#1555	Geoscience education across the globe - a comparative survey Chris King (Keynote)
1345	#1556	The Teacher Earth Science Education Programme: A Professional Development programme for Teachers making a difference in the classroom. Greg McNamara
1400	#1557	Acquiring map capabilities by means of hands-on and computer-based Geoscience activities Celso Carneiro
1415	#1558	Concept of Continuing Education Program as a "Gesamtkunstwerk". The successful Certificate of Advanced Studies (CAS) in Applied Earth Sciences at ETH Zürich, Switzerland Björn Oddsson
1430	#1559	The International Advisory for Geoscience Diversity (IAGD): Advancing access and inclusion to the geosciences for students with disabilities Christopher Atchison
1445	#1560	Earthquake and Tsunami Disasters Prevention Education for Children in Indonesia Motohiko Shibayama
1500	#1561	Introducing Earth Science Olympiad at secondary schools is a key to promote geoscience education at tertiary education in Sri Lanka Ashvin Wickramasooriya

TUESDAY 7 AUGUST 1300 - 1500 continued

2.5 - Session 2 - Mineral and energy resources, construction and industrial minerals and the role of women in resource development

1300 - 1500

GeoExpo Hospitality Room 2

Time		
1300	#1562	<i>Women Geoscientists in Resource Development</i> Afia Akhtar (Keynote)
1330	#1563	21st Century and Pakistani Women Geoscientist Shahina Tariq
1345	#1564	African Association of Women in Geosciences "AAWG" Challenges and perspectives Ezzoura Errami
1400	#1565	Could systematic geological studies carried out in Sri Lanka expand the phlogopite mica mining industry ? Sarathchandra Weerawarnakula
1415	#1566	Implementation of the procedure for environmental impact assessment in Ivory Coast Constant N'zebo
1430	#1567	Environmental degradation in the gravel and sand quarry areas in the north-eastern part of Bangladesh Md. Nehal Uddin

3.4 - Session 1 - Climate in a warmer world: Late Quaternary evidence from land, sea and ice records

1300 - 1500

Boulevard Meeting Room 1

Time		
1300	#1568	<i>Greenland ice cores tell tales on the extent of the Greenland Ice Sheet during the warm climate Eemian period 120.000 years BP.</i> Dorthe Dahl-Jensen (Keynote)
1330	#1569	Southwest Pacific Ocean response to a warmer world - what happened during Marine Isotope Stage 5e? Giuseppe Cortese
1345	#1570	Plankton productivity in the Southwest Pacific: lessons from the past for the future Mike Hannah
1400	#1571	Reduction in coastal marine productivity during warm MIS11, offshore West Coast, New Zealand Joe Prebble
1415	#1572	350 thousand years of climate change and environmental perturbations in Queensland, Australia Gilbert Price
1430	#1573	<i>Evidence of a warmer world (MIS 5) from terrestrial archives in New Zealand</i> Marcus Vandergoes (Keynote)

4.1 - Session 2 - Environmental aspects of mining

1300 - 1500

Plaza Meeting Room 4

Time		
1300	#1574	Acidity testing in ARD prediction is only applicable to weathered sulphidic rock Taryn Noble
1315	#1575	Mineralogical and textural controls on acid rock drainage formation: A case study from northern Queensland Anita Parbhakar-Fox
1330	#1576	An Experimental Study on Extraction Methods of Arsenic Species in Soils and Sediments Ximing Luo

TUESDAY 7 AUGUST 1300 - 1500 continued

1345	#1577	Potential candidates for arsenic storage: scorodite, hydrous ferric oxide, basic ferric arsenate-sulfate, bukovskyite - a thermodynamic and structural perspective Juraj Majzlan
1400	#1578	Trace metals concentration in tailing dumps of Chadak gold ore area, Uzbekistan Obidjon Kodirov
1415	#1579	Neutralization capacity and acidification potential of carbonate-rich sulfide tailings (south China) Liangqi Lei
1430	#1580	Kinetic development of oxidation zones in tailings dams with specific reference to the Witwatersrand gold mine tailings dams Bisrat Yibas
1445	#1581	Geology, Mining and Design Criteria for Safe Disposal of Radioactive Waste in an Existing Underground Mine Shankar Ghose

5.1 - Session 4 - National Geoscience Information Systems Sponsored by IHS Global Limited 1300 - 1500

Boulevard Meeting Room 3

Time		
1300	#1582	Geological Atlas of Colombia Jorge Gomez Tapias
1315	#1583	Development of China 1:50,000 scale geological map special database Rongmei Liu
1330	#1584	Cataloguing and Dissemination of Namibian National Geo-scientific Data Anna-Karren Nguno
1345	#1585	GTK's bedrock databases - a step towards standardized geological information Hannu Idman
1400	#1586	National system of monitoring, registering and prediction of ground instabilities in the Czech Republic (REGIN) Zuzana Krejci
1415	#1587	The Geoscientific Potentials of the German North Sea: Building a Geodatainfrastructure for the German North Sea Kristine Asch
1430	#1588	Towards the 24/7 online geological data access at Geological Survey of Slovenia Marko Komac

5.6 - Session 4 - Geoscience information synthesis for mineral prospectivity mapping 1300 - 1500

Boulevard Auditorium

Time		
1300	#1589	Mapping of mineral prospectivity in greenfields Emmanuel John Carranza
1315	#1590	Prospectivity mapping for multi-stage epithermal gold mineralization in Argentina Arianne Ford
1330	#1591	The spatial relationships between different types of mineral deposits: implication for mineral exploration Renguang Zuo
1345	#1592	Integration of information extracting techniques for mineral prospectivity mapping under virtual reality environment Lingqing Yao

TUESDAY 7 AUGUST 1300 - 1500 continued

6.1 - Session 4 - CO₂ geosequestration Sponsored by CO₂ CRC

1300 - 1500

Mezzanine Room 1

Time		
1300	#1593	4D seismic monitoring of complex CO ₂ injection effects in geosequestration projects David Lumley (Invited)
1315	#1594	Monitoring and Characterization activities associated with CO ₂ -EOR: the IEAGHG Weyburn-Midale Monitoring and Storage Project Steve Whittaker
1330	#1595	Time lapse experiment in Awaji Island using stable and long term seismic sources and air-injection Junzo Kasahara
1345	#1596	Sensitivity analysis of geochemical simulations - a geostorage perspective Micaela Grigorescu (Preda)
1400	#1597	Soil gas and groundwaters characterization in the frame of CO ₂ geological storage site selection Alessandra Sciarra
1415	#1598	Signal processing of hydrographs for the long term monitoring and verification of freshwater aquifers in the vicinity of a CCS project Allison Hortle (Invited)
1430	#1599	<i>CO₂ Storage Projects in Canada: The Weyburn-Midale Project and Beyond</i> Donald White (Keynote)

7.2 - Session 1 - Future sources of industrial minerals and construction materials

1300 - 1500

Mezzanine Room 2

Time		
1300	#1600	<i>The local scene: the quarry industry in south-east Queensland</i> Kyle Waye (Keynote)
1330	#1601	Phasing out the use of natural gravel for the benefit of crushed rock - The Swedish case Bjorn Schouenborg
1345	#1602	Sustainable Aggregates Resource Management: lessons learnt from SARMa project Slavko Solar
1400	#1603	Selection of rock aggregates as a construction material on the basis of aggregate impact values of different rock types in Sri Lanka Upali De Silva Jayawardena

7.5 - Session 2 - Geometallurgy continued Sponsored by Surtron

1300 - 1500

Plaza Meeting Room 3

Time		
1300	#1604	Fast XRD iron ore analysis for grade and impurity control: the key to reduce CO ₂ emission Karsten Knorr
1315	#1605	Mineralogy and beneficiation studies of low grade iron ores of Sandur schist belt, Karnataka Craton, India. Makanahalli Veeranna Rudramuniyappa
1330	#1606	Mineral fractionation during crushing: examples from copper sulphide ores Julie Hunt (Invited)
1345	#1607	Geometallurgy of Australian uranium deposits Mark Pownceby

TUESDAY 7 AUGUST 1300 - 1500 continued

1400	#1608	Planning and optimization of large diameter drill holes for metallurgical characterisation Adel Vatandoost
1415	#1609	Quantitative ore characterisation using micro X-ray computed tomography Ying Gu

8.1 - Session 2 - Footprints of mineralised systems: new concepts and data for exploration

Sponsored by Rio Tinto

1300 - 1515

Great Hall 3

Time		
1300	#1610	<i>Detecting the distal footprints of giant ore systems under cover in Australia</i> Robert Hough (Keynote)
1330	#1611	Regional Scale Hydrogeochemistry for the observation of Mineral System Footprints David Gray (Invited)
1345	#1612	Distal alteration signatures related to IOCG deposits Caroline Forbes
1400	#1613	Expanding the footprint: recognising common elemental and mineralogical associations in a series of orogenic Au deposits with highly variable host lithologies and alteration assemblages. Louise Fisher
1415	#1614	Tracking oxidized fluids in an Archaean gold deposit using fluorine and stable isotopes Adam Bath
1430	#1615	Kinematic framework of Neoproterozoic gold mineralization in Finland - constraints from bedrock mapping and numerical simulations Peter Schaub
1445	#1616	The significance of periods of tectonic inversion in low-permeability, mid-crustal environments with respect to ore genesis Manuel Sintubin
1500	#1617	Groundwater flow in fractures: a key to the genesis of nickel ores of New Caledonia. Jean-Lambert Join

9.2 - Session 2 - Volcanic and basin-hosted ores (Fe, Zn-Pb, Cu, U)

1300 - 1500

Great Hall 4

Time		
1300	#1618	Additional insight into ore formation from biological markers in the kerogen-mineral matrix of the Here's Your Chance lead-zinc-silver deposit Alex Holman
1315	#1619	<i>Origins of hyperenriched metalliferous black shales</i> Raymond Coveney (Keynote)
1345	#1620	Exploration criteria for SEDEX deposits of the Canadian Cordillera Suzanne Paradis
1400	#1621	The Central Namibian Copper Trend: a range of deposit styles related to two metallogenic events Ken Maiden
1415	#1622	Alkohl-Alqalanah sedimentary-hosted lead-zinc hypogene sulfides at Wadi Al-Masilah Basin, Mahrah province, Yemen Orlando Vaselli

TUESDAY 7 AUGUST 1300 - 1500 continued

11.5 - Session 2 - Offshore Frontier Basins

1300 - 1500

Mezzanine Room 3

Time		
1300	#1623	<i>Tectono-stratigraphic setting and petroleum systems of the Falkland Islands offshore basins</i> Phil Richards (Keynote)
1330	#1624	Oil and gas resources of Russian continental shelf: current state and problems of research and development Oleg Suprunenko
1345	#1625	Trap integrity studies in the offshore northern Perth Basin - implications for hydrocarbon trap preservation Chris Nicholson
1400	#1626	Natural hydrocarbon seepage in the frontier Houtman Sub-basin: Evidence for an extension of active Perth Basin petroleum systems Nadege Rollet
1415	#1627	Maykop reservoir rocks make a challenge for the Black Sea exploration: Subbotin oilfield case study, Ukraine Alexander Kitchka

12.1 - Session 2 - Coal seam gas Sponsored by QGC

1300 - 1500

Mezzanine Room 4

Time		
1300	#1628	<i>Basin modelling of biogenic gas formation</i> Chris Clayton (Keynote)
1330	#1629	Geochemical and microbiological evidence for degradation of heavy hydrocarbons in Australian CBM reservoirs Mohinudeen Faiz
1345	#1630	Microbially Enhanced Coal Seam Methane (MECSM): Biogenic gas production from coals from the Sydney, Surat, Gunnedah and Bowen basins. Nai Tran-Dinh
1400	#1631	Real-time biogenic methane production from non-producing coals Song Jin
1415	#1632	Pathways of coal biodegradation and methane production William Orem
1430	#1633	Biogenic Gas in Brown Coal—a Shifting Paradigm Simon Maher
1445	#1634	Acetoclastic methanogenesis in a microbial community associated with a sub-bituminous coal seam in NSW, Australia Michael Manefield

13.2 - Session 2 - Recent to Modern Coastal and Shallow Marine Systems (2)

1300 - 1500

Plaza Meeting Room 2

Time		
1300	#1635	Preservation of a Pleistocene-Holocene aeolian, fluvial and marine sedimentary Complex off a major Desert Belt (Arguin Shelf off Mauritania) Till Hanebuth
1315	#1636	Geoindicators of late Holocene storm levels (NW coastal zone of Portugal) Helena Granja
1330	#1637	Post-glacial infilling of a semi-enclosed basin forced by climate changes and strong offshore aeolian sediment input: the Banc d'Arguin (Mauritania) Raphael Certain

TUESDAY 7 AUGUST 1300 - 1500 continued

1345	#1638	Tidal Effects on the Shoreface: Towards a Conceptual Framework Shahin Dashtgard
1400	#1639	Formation of sorted bedforms in the Southern North Sea Klaus Schwarzer
1415	#1640	Microfacies and geochemistry of the Ilam Formation in the Tang-E Rashid area, Izeh, S.W. Iran Mohammad Hossein Adabi
1430	#1641	Quantitative modelling of mesoscale shoreline migration and shallow-marine sedimentation: reconciling shoreface morphodynamics and shelf kinematics Michael Kinsela

14.2 - Session 2 - Compressional Basins

1300 - 1500

Plaza Meeting Room 6

Time		
1300	#1642	Forearc extension coeval with subduction complex accretion in the mid-Paeozoic Mossman Orogen Bob Henderson
1315	#1643	Variation and transformation of forearc basin configurations and depositional styles through the Cenozoic along the Japan arcs: role of trench slope break and strike slip tectonics Osamu Takano
1330	#1644	Evolution and crustal architecture of inverted back arc basin, Niigata, central Japan Hiroshi Sato
1345	#1645	Geotectonic History of the Tethyan Chains within the Central and South-East Europe Mircea Sandulescu
1400	#1646	The effects of tectonics, basin connectivity and sea level fluctuations on sedimentation in a large semi-enclosed basin: a case study from the western Dacian basin (Eastern Paratethys, Europe) Marten Ter Borgh
1415	#1647	The Appalachian Basin: Compressional Tectonic Controls on the Development and Sedimentary Infill of a Composite Foreland Basin due to Paleozoic Convergence Frank Ettensohn
1430	#1648	Late Cretaceous-Cenozoic foreland basin development in the United Arab Emirates Tim Pharaoh
1445	#1649	Thermochronological constraints on detrital sediments of the late Permian Karoo Basin: Insights into uplift history of the Cape Fold Belt. Eric Tohver

15.1 - Session 4 - Plate reconstructions and lithospheric deformation cycles

1300 - 1500

Great Hall 1&2

Time		
1300	#1650	<i>Structural evolution of the Kohistan intra-oceanic collision system</i> Jean-Pierre Burg (Keynote)
1330	#1651	Orogenesis in the Tasmanides, vertical axis rotations, and the rate of Gondwana's Palaeozoic drift Robert Musgrave
1345	#1652	FIA trends along the PreCambrian Rocky Mountains: a new approach to timing continental docking Hui Cao
1400	#1653	Southward transition of arcuate troughs during the Upper Paleozoic-Lower Mesozoic in mid-west Korea: Implications to the South-North Chinese collision Pom-Yong Choi

TUESDAY 7 AUGUST 1300 - 1500 continued

1415	#1654	Unraveling the paleomagnetic record of King George Island, South Shetlands, Antarctica Sarah Slotznick
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16.3 - Session 2 - The crust-mantle lithosphere system

1300 - 1515

Plaza Meeting Room 1

Time		
1300	#1655	Os isotopes in mantle-derived minerals: what can they really tell us? José María González-Jiménez
1315	#1656	Tracing the origins of southern Zealandia using Os isotopes in mantle xenoliths Alex McCoy-West
1330	#1657	Dating the geological history of the northwestern North American plate: Re-Os isotopic analyses of sulfides from western Yukon ultramafic complexes Monica Escayola
1345	#1658	Multi-stage origin of Roberts Victor eclogites: Progressive metasomatism Jinxiang Huang
1400	#1659	Origin of depleted mantle xenoliths from South Africa Svetlana Tesselina
1415	#1660	Arc Evolution and its Implications for the Generation, Modification and Destruction of Lithosphere Julian Pearce (Invited)
1430	#1661	Detrital zircon U-Pb and Hf isotopic constrains on generation and reworking of continental crust of Cathaysia Block, South China: A synthesis Xian-Hua Li (Invited)
1445	#1662	Coupled formation of continental crust and lithospheric mantle during continental arc magmatism: insights from cratons and modern examples Cin-Ty Lee (Invited)
1500	#1663	A review of seismic and electrical properties of granulites and peridotites: implications for the crust-mantle boundary Qin Wang

17.2 - Session 2 - Rates and mechanisms of Archean crust formation – the relative contribution of plume versus plate tectonics

1300 - 1500

Plaza Meeting Room 5

Time		
1300	#1664	Water-present eclogite melting to form Earth's early continental crust: Implications for the secular change in granitoid chemistry towards the end of the Archaean Eon Angelique Laurie (Invited)
1315	#1665	Adakites of diverse compositions: implications on Neoproterozoic subduction zone processes from the Dharwar Craton, India Chakravadhanula Manikyamba
1330	#1666	Recycling of lead at Neoproterozoic continental margins Jaana Halla
1345	#1667	P-T modelling and geochronology of the Barberton Granite Greenstone Belt, South Africa: Investigating the presence of polymetamorphism in the Archaean. Kathryn Cutts
1400	#1668	Cratonic Source Codes: a new tool in Archean plate reconstructions? Neal McNaughton
1415	#1669	Growth and evolution of the westernmost part of the Karelian Province, in Finland Esa Heilimo

TUESDAY 7 AUGUST 1300 - 1500 continued

1430	#1670	The Early Archaean TTG complex of the Kola Peninsula: Isotope U-Pb dating of the Ingozero massif. Elena Nitkina
1445	#1671	Crustal architecture of the Archean Youanmi Terrane. What do granitic plutons tell us? Ivan Zibra
18.1 - Session 2 - Building the Australian continent		
1300 - 1500		
Plaza Meeting Room 8		
Time		
1300	#1672	Geophysical investigation of the tectonic evolution of the SE Mount Isa Inlier Giovanni Spampinato
1315	#1673	<i>Tectonic models for Proterozoic Australia: implications from the magmatic record</i> David Champion (Keynote)
1345	#1674	The >6-km thick Capricorn ridge shear zone: evidence of Paleoproterozoic NNE-SSW extension in the southern North Australian Craton Cheryl Waters-Tormey
1400	#1675	Continental, shoreface and platformal environments in the 1760-1750Ma transgressive Mary Kathleen Group - a key to understanding Mt Isa Inlier stratigraphy and geological history Geoff Derrick
1415	#1676	Geological, geometric and geochronological constraints on the Proterozoic northern and eastern margins of the Gawler Craton, South Australia Geoff Fraser
1430	#1677	New geochemical and geochronological insights into the crustal evolution of the eastern Musgrave Province, South Australia Rian Dutch
1445	#1678	Tectonic mode switches at the Australian Mesoproterozoic Boundary - tectonic events at the same scale lengths as modern tectonic systems. Peter Betts
21.3 - Session 2 - Subduction zone magmatism including a special session on magmatism in the SW Pacific		
1300 - 1500		
Plaza Meeting Room 9		
Time		
1300	#1679	Arc magmatism in Kyushu and western Honshu controlled by along-arc H ₂ O variations Georg Zellmer
1315	#1680	Major and trace elements studies of volcanic rocks: Genesis and evolution of volcanic rocks in Dahalajunshan Group, Chinese Western Tian Shan Zhenjie Zhang
1330	#1681	Magma origin and evolution of Tengchong Cenozoic volcanic rocks from west Yunnan, China: evidence from whole rock geochemistry and Nd-Sr-Pb isotopes Dapeng Li
1345	#1682	Convergent continental marginal volcanism across the Permian-Triassic boundary: Evidence from petrology, zircon trace element and Hf-isotope composition of volcanic ash beds at the Daxiakou section, South China Qiuling Gao
1400	#1683	Mesozoic detrital zircon U-Pb age distributions of modern river sediments in Korea: implications for migration of Mesozoic arc magmatism in the East Asian continental margin Taejin Choi

TUESDAY 7 AUGUST 1300 - 1500 continued

1415	#1684	Geochemical indicators of magma source, depth, mixing, alkalinity, and extent of differentiation in the Coastal Batholith near Ica in southern Peru Benjamin L Clausen
1430	#1685	The nascent Caribbean-North America plate boundary in southwestern Mexico: Early Tertiary bimodal magmatism and scissor-like rifting accompanying the break away of the Chortis block Luca Ferrari
1445	#1686	Zircon O-Hf isotopic evidence for changing magmatic sources related to the regional 'K-T' contraction in Northern Chile (24°-26° S). Felipe Espinoza

22.3 - Session 2 - Mechanisms of metamorphic reactions and fluid-rock interaction

1300 - 1500

Plaza Meeting Room 10

Time		
1300	#1687	<i>Influence of reaction affinity on metamorphic processes</i> David Pattison (Keynote)
1330	#1688	Reaction mechanisms as controls on equilibration in metamorphic systems William Carlson
1345	#1689	The generation and evolution of metamorphic fluid and melt in an UHP terrane: zirconological constraints from pegmatite veins and UHP gneisses in the Sulu orogen Wan-Cai Li
1400	#1690	Dissolution of carbonate minerals and release of CO ₂ during subduction zone metamorphism Jay Ague
1415	#1691	Fluid flow during exhumation of deeply subducted continental crust: Geochemical constraints from zoisite-quartz vein and host metabasite in the Dabie orogen Ren-Xu Chen
1430	#1692	The role of lawsonite in controlling the fluid activity in the cold Ganghe HUP eclogite, Dabieshan, Eastern China Kai Ye
1445	#1693	Were Ca-Al-rich inclusions from the Allende meteorite open to fluxes of Ca during metamorphic recrystallization? Timothy J. Fagan

23.1 - Session 2 - Martin Glaessner Symposium: The Ediacaran and the Cambrian Explosion

1300 - 1500

Mezzanine Room 6

Time		
1300	#1694	<i>U-turn if you want to: patterns of earliest Cambrian evolution and the origin of the bilaterians</i> Graham Budd (Keynote)
1330	#1695	A dalliance with Dailyatia: significant new information on an enigmatic lophotrochozoan animal from the lower Cambrian of Australia and Antarctica Glenn Brock
1345	#1696	Resolving the position of problematic lower to middle Cambrian Lophotrochozoa: a critical appraisal of tommotiid and stem-brachiopod character homologies Aodhán Butler
1400	#1697	Cambrian lobopodians: ancestor of Panarthropoda? Jianni Liu
1415	#1698	Digging around the base of the Billingsellida; the evolution and phylogenetic relationships of early rhynchonelliform brachiopods Timothy Topper

TUESDAY 7 AUGUST 1300 - 1500 continued

1430	#1699	Perturbation of eukaryotic life and ocean redox around the Precambrian-Cambrian boundary Minori Kikuchi
1445	#1700	Small carbonaceous fossils (SCFs) and a cryptic Cambrian radiation of crustaceans Thomas Harvey
25.3 - Session 1 - Physical processes of coastal and shelf sedimentation 1300 - 1515 Qld Museum Theatre		
Time		
1300	#1701	<i>Temporal and Spatial Scales of Processes operating on Continental Shelves and at the Coastline</i> Michael Collins (Keynote)
1330	#1702	Centennial Scale Shoreface Bathymetric and Sand Transport Change in Response to Tasman Sea Wave Climate Variability Ian Goodwin
1345	#1703	Natural electric field as factor of the formation alluvial deposits on a shelf Mikhail Kholmyansky
1400	#1704	Interaction between terrestrial and coastal sediments in huge tsunami events - Geochemical investigation of tsunami sediments on March 11, 2011 - Takeshi Komai
1415	#1705	Applying Remote Sensing Methods to monitor Changing of Mangrove Distribution in Beibu Bay, Southwestern China Xuejie Li
1430	#1706	Sediment dynamics and depositional controls for the western seaboard of the Cape Peninsula, South Africa Michael MacHutchon
1445	#1707	Sediment dynamics under the influence of dense shelf water flows and Eastern storms, Roses continental shelf, NW Mediterranean Sea Aaron Micallef
1500	#1708	Dense shelf water cascades: a mechanism for offshore dispersal of sediment Charitha Pattiaratchi
28.2 - Session 2 - Groundwater processes: interactions, dynamics and response 1300 - 1500 Plaza Terrace Room		
Time		
1300	#1709	Determination of recharge processes in an alluvial system by integration of environmental tracer analyses and hydrological data, Cressbrook Creek catchment, southeast Queensland Adam King
1315	#1710	Integrating hydrochemistry to better understand groundwater processes in the alluvial aquifers of the Darling River floodplain, NSW, Australia Ross Brodie
1330	#1711	Hydrologic control of groundwater salinity in an arid basin from a stable isotope perspective - a case study of the Fortescue Marsh, northwest Australia Grzegorz Skrzypek
1345	#1712	Using $\delta^{34}\text{S}$ and $\delta^{18}\text{O}_{\text{SO}_4}$ isotopes to identify the source of dissolved sulphate in groundwater of the Pilbara region, Western Australia Laura McLean
1400	#1713	New insights into the hydrodynamics of the Surat Basin. Andrew Moser
1415	#1714	The behaviour of natural radionuclides in U-rich granitic basement hosted groundwater of Vaalputs, in the semi-arid Namaqualand of western South Africa Huibrie Pretorius

TUESDAY 7 AUGUST 1300 - 1500 continued

1430	#1715	Radiocarbon analysis of bulk and fractionated dissolved organic carbon from ground and surface waters in remote NW Queensland Mira van der Ley
1445	#1716	The cause of salinity stratification in bores in central Victoria, southeastern Australia. John Webb

29.1 - Session 2 - Landscape response to climate change: quantifying present and ancient rates of Earth-surface processes 1300 - 1500 Boulevard Meeting Room 2

Time		
1300	#1717	Holocene glacial and interglacial sediment cycling the relationship between weathering, ice stream dynamics and climate: Insights from Osmium isotope data Alan Rooney
1315	#1718	A reconstruction of Holocene coastal change on a macrotidal coastline, Admiral Bay, north Western Australia. Peter Squire
1330	#1719	Buried, but not forgotten; reconciling climate dynamics with catchment evolution in the East Kimberley using ¹⁰ Be & ²⁶ Al Zach Swander
1345	#1720	An assessment of landscape change over the past 40,000 years in central Victoria, Australia Karen Kapteinis
1400	#1721	The Eurim Lake Sedimentary Deposits and History of Bank Construction in Korea Ju Yong Kim
1415	#1722	The time constraint of landform evolution in the eastern margin of Taihang Mountains, eastern China Yinsheng Ma
1430	#1723	Rate of crustal shortening and non-Coulomb behaviour of an active accretionary wedge: The folded fluvial terraces in Makran (SE, Iran) Negar Haghipour
1445	#1724	Geomorphological Evolution of the Canada Hill area of Miri, Northeastern Sarawak, Malaysia Yuniarti Ulfa

30.1 - Session 4 - Subaerial and submarine landslide hazards [IGCP585] 1300 - 1500 Sky Room

Time		
1300	#1725	Landslides hazards as a part of environmental condition's assessment. Diana Zakhidova
1315	#1726	Earthquake-induced Landslide Hazard Assessment in the Philippines Arturo Daag
1330	#1727	Rapid evaluation of rockfall risk scenarios for purpose of civil protection Stefano Morelli
1345	#1728	Criticisms of the landslide inventories following road use change in mountainous highways: Relocation, dimensions analysis and hazard zonation Shahram Nasiri

TUESDAY 7 AUGUST 1300 - 1500 continued

30.6 - Session 1 - Earth monitoring for improved forecasting of natural hazards

1300 - 1500

Meeting Room S1

Time		
1300	#1729	<i>Seafloor seismic/geodetic monitoring in the hypocentral area of the 2011 Great Tohoku Earthquake</i> Ryota Hino (Keynote)
1330	#1730	Investigating the spatial and temporal distribution of earthquakes and tremor along the Cholame segment of the San Andreas fault Danielle Sumy
1345	#1731	Samoa Seismic Network Lameko Talia
1400	#1732	Developing national seismic monitoring capability for regional earthquake and tsunami warning centre: the example of the New Caledonia-Vanuatu regional seismic network Esline Garaebiti
1415	#1733	<i>The Canterbury earthquakes of 2010-2011: the value of comprehensive monitoring</i> Ken Gledhill (Keynote)

31.2 - Session 2 - Engineering geology in major infrastructure developments

1300 - 1500

Mezzanine Room 8

Time		
1300	#1734	Assessing the Risk of Groundwater Contamination from Earthworks in Karst Terrain Jacqui Coleman
1315	#1735	An overview of rainfall patterns and geotechnical performance of the road transport network in the Darling Downs and Metropolitan regions following the January 2011 Queensland Floods Sarah Marsanich
1330	#1736	Geological and geotechnical setting of the Brisbane Cross River Rail Project Chris Huddy (Invited)
1345	#1737	Geological context of the tunnel collapse of January, 2005 in Barcelona, Spain Jordi Corominas (Invited)
1400	#1738	Methodological approach and geological analysis-geotechnical about the high-speed train - TAV BRASIL Noris Diniz
1415	#1739	The use of Finnish national geotechnical databases in geological modelling Ossi Ikavalko
1430	#1740	Using geology to minimize the prospection plan of soft soils for a sewage treatment plant Mário Quinta-Ferreira

32.3 - Session 2 - Disaster Management

1300 - 1500

F1 - Training Room

Time		
1300	#1741	<i>Remote sensing of volcanic hazards</i> Robert Wright (Keynote)
1330	#1742	Tiered remote sensing and geographic information system (GIS) based map products for improved earthquake response Fred Kruse
1345	#1743	Quality Assessment of Digital Elevation Model derived from ALOS PALSAR Interferometry Takumi Onuma

TUESDAY 7 AUGUST 1300 - 1500 continued

1400	#1744	Glacial lakes in the headwaters of the Amu Darya river, Central Asia: spatial distribution and temporal development Martin Mergili (Invited)
1415	#1745	Debris flow hazards in the Kayan River Valley between Du Ab and Doshi, Baghlan Province, Afghanistan James Springer
1430	#1746	Geomorphological survey of the deep-seated gravitational slope deformations (DSGSDs) of the Rodoretto Valley (NW Alps) through the Solid (True) Ortho-Photo (STOP) technology Stefano Lo Russo

33.3 - Session 1 - Major achievements in 20th century geology 1300 - 1500

GeoExpo Hospitality Room 1

Time		
1300	#1747	George Davenport Osborne and The Hunter Thrust David Branagan
1315	#1748	The first international meeting of geologists in Russia: Field excursions and feedback from participants at the 7th IGC, Saint-Petersburg on its 115th anniversary Leonid Kolbantsev
1330	#1749	The failed mission of Dmitry Mushketov: to the 75th anniversary of the 17th IGC (Moscow, 1937) Irena Malakhova
1345	#1750	<i>Retrospective on the plate tectonic revolution focusing on K/Ar dating, linear volcanic island chains and the geomagnetic polarity time scale</i> Ian McDougall (Keynote)
1415	#1751	Scientific Discoveries and Periodization of the History of Geology Gennadiy Trifonov
1430	#1752	The 'mass movement' for earthquake prediction during the period of the Chinese Cultural Revolution Jiuchen Zhang

34.2 - Session 1 - Geological and metallogenic responses to deep processes in eastern Asia and continental margins 1300 - 1500

Plaza Meeting Room 11

Time		
1300	#1753	<i>Recent progress of the research on J-K East Asian multi-direction convergent tectonic system</i> Shuwen Dong (Keynote)
1330	#1754	<i>International project "Atlas of Geological Maps of Central Asia and the Adjacent Territories at 1: 2,5M": progress and perspectives</i> Sergey Shokalsky (Keynote)
1400	#1755	<i>Precambrian to Mesozoic accretionary orogens and crustal evolution in the Korean Peninsula</i> Sung Won Kim (Keynote)
1430	#1756	Earth's Crust Thickness of North, Central and East Asia Evgeniya Milshteyn
1445	#1757	Geodynamic Evolution and Metallogeny of Mongol - Okhotsk Belt Delgertsogt Baljinnyam

TUESDAY 7 AUGUST 1300 - 1500 continued

35.1 - Session 2 - GSSPs (Global boundary-stratotype section and point) as global geostandards 1300 - 1500 Mezzanine Room 9

Time		
1300	#1758	Successive extinctions of muricate planktonic foraminifera (Morozovelloides and Acarinina) and defining the base Priabonian Bridget Wade
1315	#1759	The Early-Middle Pleistocene boundary: background and overview of potential Global Stratotype Sections and Points (GSSPs) Martin Head
1330	#1760	A 100 m-thick Tarentian succession from the subsurface of Po River plain, Italy Alessandro Amorosi
1345	#1761	The Tarentian Fronte Section (Taranto, Italy): a suitable Upper Pleistocene GSSP Alessandra Negri
1400	#1762	Combined glacial allo- and lithostratigraphy as a base for terrestrial chronostratigraphic and diachronic units Matti Räsänen

36.7 - Session 2 - Geoscience research and concepts from Asia and environs 1300 - 1500 Plaza Meeting Room 7

Time		
1300	#1763	Origin analysis of sublacustrine hydrothermal rocks characterized by analcime, sanidine, dolomite, quartz, etc. in Lucaogou Formation, Middle Permian, Santanghu Basin, Northern Xinjiang, NWChina Hong Li
1315	#1764	Authigenic pyrites in sediments from northern South China Sea and implication for potential mud volcano Jiasheng Wang
1330	#1765	Research on key problems of the fluid property of the earthquake rocks physical based on the nonlinear analysis method and dividing Advantageous Regions Si Guo
1345	#1766	Geophysical antenna for the acoustic emission sources location in the rock mass Igor Krivosheev
1500 - 1530		BREAK

TUESDAY 7 AUGUST 1530-1730

1.2 - Session 3 - Geoscience education 1530 - 1745 Arbour Meeting Room 2

Time		
1530	#1767	Geologic mapping: an acquired skill required for all geoscientists David Mogk
1545	#1768	Earth Science Education Initiative in Africa Sarah Gaines (Keynote)
1615	#1769	Assessment of pre-service teachers' conceptions in the geosciences using the Geoscience Concept Inventory Georgia Bracey

TUESDAY 7 AUGUST 1530-1730 continued

1630	#1770	Proposed new materials based on the renewed national curriculum standards of "Earth and Planetary Science" for primary and lower secondary schools students in Japan Hiroo Nemoto
1645	#1771	A global perspective on education programs Vicki Pow
1700	#1772	<i>Earth Science education in Australian schools: Where have we come from, where are we now and where are we going?</i> Greg McNamara (Keynote)
1730	#1773	Indian School Earthquake Laboratory Programme: an initiative towards education and awareness Mithila Verma

2.2 - Session 1 - Social awareness, geoplanning and and capacity-building for development and mitigation of geohazards 1530 - 1730

GeoExpo Hospitality Room 2

Time		
1530	#1774	Efforts to minimize earthquake and tsunami hazards in India Rajender Chadha
1545	#1775	Trans-boundary earthquake hazard mitigation in central Asia Derek Rust
1600	#1776	Enhancing natural hazard risk analysis capacity in the Asia-Pacific region: examples from Papua New Guinea, the Philippines and Indonesia Alanna Simpson
1615	#1777	Samoa Coastal Infrastructure Management Plans - linking coastal hazard information with land use policy for climate change adaptation and disaster risk reduction. Michele Daly
1630	#1778	Building capacity for natural hazard modelling in developing countries of the Asia-Pacific region Rikki Weber
1645	#1779	Analysis on the capacity building for mitigating volcanic hazards versus the 2010 eruption of Mount Merapi, Central Java, Indonesia Sari Bahagiarti Kusumayudha

3.4 - Session 2 - Climate in a warmer world: Late Quaternary evidence from land, sea and ice records 1530 - 1730

Boulevard Meeting Room 1

Time		
1530	#1780	Cold conditions in Antarctica during the Little Ice Age — Implications for abrupt climate change mechanisms Nancy Bertler
1545	#1781	Past migration of ocean fronts in the SW Pacific; insights from modern observations. Lionel Carter
1600	#1782	Cave sediment clay mineral ratios reflect Pleistocene palaeoclimate: pilot study at Mount Etna, Queensland Linda Nothdurft
1615	#1783	Grain size of lacustrine sediments in deep Qinghai-Tibetan Plateau, and its paleoclimatic implications since the Last Interglacial Hailei Wang

TUESDAY 7 AUGUST 1530-1730 continued

4.1 - Session 3 - Environmental aspects of mining

1530 - 1745

Plaza Meeting Room 4

Time		
1530	#1784	Long-term seepage chemistry of base metal mine tailings in a semi-arid subtropical climate, Mount Isa, Australia Bronwen Forsyth
1545	#1785	Assessment of mine water effects using stable isotope approaches Phong Pham
1600	#1786	Influence of mine effluent with high concentration of Fe and Zn on sea life along seashore in the Kii Peninsula, Central Japan Hiroyuki Ii
1615	#1787	Environmental assessment of legacy metalliferous mine sites, New England Orogen, Australia Bernd Lottermoser
1630	#1788	Pb, As and Cd Pollutions in Biogeochemistry Chain near a Lead-Zinc Mine Exploration Area Liqiang Luo
1645	#1789	Biogeochemical processes in metal-contaminated soils of Angren-Almalyk mining industrial area (Uzbekistan). Nosir Shukurov
1700	#1790	Classification, characteristics and case study on mining-related debris flow Huayong Ni
1715	#1791	Geochemical Environmental Effects of Metallic Sulfide Deposit and Its Mining in Dabaoshan, Northern Guangdong (China) Yongzhang Zhou
1730	#1792	The Investigation of Factors and Strategies Concerning the Environmental Problems in Mine Exploitation Lin Zhu

5.1 - Session 5 - Geoscience Data Delivery and Exploitation *Sponsored by IHS Global Limited*

1530 - 1730

Boulevard Meeting Room 3

Time		
1530	#1793	Integrated geoinformation system for providing information support in geological study of subsoil Evgenia Cheremisina
1545	#1794	Depth to crystalline basement dataset for South Australia Wayne Cowley
1600	#1795	Utilization and updating of World Magnetic Anomaly Map on country by country basis Juha Korhonen
1615	#1796	GIS technologies for geological mapping of urban territories Oleg Mironov
1630	#1797	What makes a good geological data set for coal resource assessment? David Green
1645	#1798	GeoMAP.WA: enhanced delivery, dissemination, and interrogation of geoscientific and resource information Darren Wallace
1700	#1799	Explanatory Notes for the 21st century Angela Riganti
1715	#1800	Visualization of seamless geomodels via a web portal Helmut Schaeben

TUESDAY 7 AUGUST 1530-1730 continued

5.6 - Session 5 - Stochastic characterisation of rock masses

1530 - 1730

Boulevard Auditorium

Time		
1530	#1801	<i>Influence of rock mass fracture system on REV and equivalent continuum behaviour and stability of a tunnel - a case study</i> Pinnaduwa Kulatilake (Keynote)
1600	#1802	Hydraulic Characterization of a Granitic Body by 3D Fracture Modeling, Groundwater Simulation and Rock Core Tests Taiki Kubo
1615	#1803	Simulation on the three dimensional distribution of fracture networks by GEOFRAC in Gejiu tin mine, China Chunxue Liu
1630	#1804	Stochastic and model uncertainty in characterisation of rock masses Marc Elmouttie (Invited)
1645	#1805	The influence of rock heterogeneity on fracture pattern formation Adriana Paluszny (Invited)
1700	#1806	Stochastic characterisation of enhanced geothermal systems Chaoshui Xu (Invited)

6.1 - Session 5 - CO₂ geosequestration *Sponsored by CO2 CRC*

1530 - 1730

Mezzanine Room 1

Time		
1530	#1807	The current global status of CCS Steve Whittaker (Invited)
1545	#1808	Portfolio analysis of carbon sequestration technologies and barriers to adoption: general methodology and application to geological storage Jillian Young-Lorenz
1600	#1809	The Plains CO ₂ Reduction (PCOR) Partnership: Carbon capture, utilization, and storage demonstration activities Charles Gorecki
1615	#1810	The South West CO ₂ Hub CCS Flagship; a new commercial scale project Linda Stalker
1630	#1811	The In Salah CO ₂ storage project: Lessons learned and knowledge transfer Kevin Dodds (Invited)
1645	#1812	<i>Progress Update on major monitored injections in the US--SECARB Cranfield project</i> Susan Hovorka (Keynote)
1715	#1813	Overview of the Bell Creek Combined CO ₂ Storage and CO ₂ EOR Project John Hamling

7.2 - Session 2 - Future sources of industrial minerals and construction materials

1530 - 1730

Mezzanine Room 2

Time		
1530	#1814	The Marirongoè pegmatite field in Mozambique: a new mining area for beryl and topaz João Marques
1545	#1815	Chemistry of pegmatite quartz: implications for the formation of high-purity quartz Axel Müller
1600	#1816	Geology and characteristics of metalimestone-hosted iron deposit near Negash, Tigray, northern Ethiopia Solomon Gebresilassie

TUESDAY 7 AUGUST 1530-1730 continued

1615	#1817	Pure illitic clay from Abakaliki area, SE Nigeria Jean-Frank Wagner
1630	#1818	PRESENTATION CANCELLED
1645	#1819	Carbonation processes affecting serpentinites: their implications in the characterization of these rocks as a dimension stone. Dolores Pereira
1700	#1820	Repair of a marble facade - a Swedish case study Bjorn Schouenborg (Invited)

7.5 - Session 3 - Grade control and deposit case studies *Sponsored by Surtron* 1530 - 1730 Plaza Meeting Room 3

Time		
1530	#1821	<i>Optimisation grade control procedures at the open pit mines considering samples quality, drill spacing and the project economics</i> Marat Abzalov (Keynote)
1600	#1822	Integration of Geological Controls in the Production Workflow for Surface Miners at FGM Cloudbreak. Sylvain Ayrault
1615	#1823	What's really in your low grade stockpiles - a case study in stockpile modelling and optimisation at Lihir Gold Operations Warwick Fortune
1630	#1824	Meeting the geology demands in a growing iron ore industry Ashok Doorgapershad
1645	#1825	The Copper Hill porphyry Cu-Au deposit story, Central NSW Australia David Timms
1700	#1826	The Merlin Molybdenum Rhenium Deposit, Mt Isa Inlier, Queensland Geoff Phillips

8.1 - Session 3 - Footprints of mineralised systems: new concepts and data for exploration *Sponsored by Rio Tinto* 1530 - 1745 Great Hall 3

Time		
1530	#1827	Geoscience Australia's airborne electromagnetic surveys and exploration of uranium, basemetal and gold deposits Ian Roach (Invited)
1545	#1828	The hunt for Oktyabrysky: understanding the camp to deposit scale footprint of mafic Ni-Cu sulfide deposits Steve Beresford (Invited)
1600	#1829	4D integrative-approach for target generation in the West Musgrave Province Aurore Joly
1615	#1830	Spatial variations in lithogeochemistry of Proterozoic Large Igneous Provinces of Canada: relationships to magmatic sulphide deposits and implications for Ni-Cu-PGE prospectivity Simon Jowitt
1630	#1831	Contact metamorphism, partial melting and fluid flow in the granitic footwall of the South Kawishiwi Intrusion, Duluth Complex, USA and their significance in Cu-NE PGE mineralization Zsolt Benko
1645	#1832	The trace metal chemistry of micas as an exploration pathfinder in giant magmatic Ni-Cu-PGE sulphide deposits Michael Warren

TUESDAY 7 AUGUST 1530-1730 continued

1700	#1833	Mapping Mineral Zonation in the Main and No.2 Skarns, Mt Lindsay, Western Tasmania Jenny Stein
1715	#1834	Discovery of the blind Odin albitite-type uranium deposit, Mount Isa, Queensland, Australia John Jory
1730	#1835	Spectral characterisation of alteration at Kalman, Cloncurry IOCG Province. Mal Jones

9.2 - Session 3 - Volcanic and basin-hosted ores (Fe, Zn-Pb, Cu, U)

1530 - 1730

Great Hall 4

Time		
1530	#1836	The geology and geochemistry of the Dales Gorge Member of the Brockman Iron Formation at the Flinders Mines' Pilbara Iron Ore Project - Implications for mineralisation and exploration targeting. Anna Petts
1545	#1837	New insights into sand-hosted uranium systems of the Paralana area, Lake Frome watershed: significance of present-day freshwater aquifers, saline aquifers and petroleum Bernd Michaelsen
1600	#1838	Faults and reservoir compartmentalization - the trapping of a roll front system? Insights from Lost Creek deposit, Wyoming Sophie Hancock
1615	#1839	Uranium mineralization related to Mesozoic volcanism in east China Xiaodong Liu
1630	#1840	Thermodynamic properties of aqueous phenanthrene and isomers of methylphenanthrene at high temperature Jeffrey Dick

11.5 - Session 3 - New Technology and Methodology

1530 - 1730

Mezzanine Room 3

Time		
1530	#1841	<i>Drilling below the salt in the Western Mediterranean</i> Marina Rabineau (Keynote)
1600	#1842	Use of new concepts for the validation and adjustment of prospect prognosis applicable to frontiers areas in new basins and mature plays in old basins. Richard Sinding-Larsen
1615	#1843	First 4C seismic survey in the Caspian Sea Sergey Nechkhaev
1630	#1844	Ordovician carbonate reservoir fracture characteristics and fracture distribution forecasting in the Tazhong Area of Tarim Basin, Northwest China Wenlong Ding
1645	#1845	The largest oil-bearing objects of sedimentary basins in Russia Vladimir Payrazyan

12.1 - Session 3 - Coal seam gas Sponsored by QGC

1530 - 1730

Mezzanine Room 4

Time		
1530	#1846	Modeling Methane Adsorption Capacity of Tertiary Coals from the United States and Other Countries: Reservoir Potential Romeo Flores

TUESDAY 7 AUGUST 1530-1730 continued

1545	#1847	Controls of Carbon Dioxide Adsorption Capacity of Coals from the United States and other Countries Gary D Stricker
1600	#1848	The Adsorption and Migration Characteristics of Methane and Carbon Dioxide in Anthracite Coal Jinchen, China Songhang Zhang
1615	#1849	Estimation of thinly bedded Coal Seam Gas (CSG) reservoir thickness using High-resolution Shallow Focused Electric Tool João Afonso
1630	#1850	Petrophysical properties of coal in 3D Alexandra Golab
1645	#1851	Estimation of gas in place in coal reservoirs using geophysical and geological data Kaydy Pinetown
1700	#1852	The CBM explorationist's toolbox: Quick uncertainty characterization for GIP and gas flow Tim Moore
1715	#1853	Biogenic Origins of coal seam gas in Indonesia - A natural analogue for bio-renewable energy in tandem with CO ₂ sequestration. Preliminary Assessment Rita Susilawati

13.2 - Session 3 - Ancient Clastic Coastal and Shallow Marine Systems

1530 - 1730

Plaza Meeting Room 2

Time		
1530	#1854	<i>Deposits of coastal and shallow marine systems: recent advances</i> Ron Steel (Keynote)
1600	#1855	Evolution of the Northern Barrow Delta: Integrating Palynology, Sedimentology and Sequence Stratigraphic Techniques Jessica Trainor
1615	#1856	Tide domination in a regressive marginal marine succession: A case study from the Upper Cretaceous, Horseshoe Canyon Formation, Drumheller, Alberta, Canada Bruce Ainsworth
1630	#1857	Recognition and Reservoir Characterization of Carboniferous and Devonian Tide-Dominated Distributary Channels and Subtidal Shoals, El Merk Field, Block 208, Algeria Howard White
1645	#1858	Evolution of sedimentary-tectonic in Cambrian in Ordos, north China Bai Yunlai
1700	#1859	Tectono-stratigraphy of syn-rift footwall-sourced depositional systems; south Hadahid block, Suez Rift, Egypt Jord De Boer
1715	#1860	Evidence for Cenomanian-Turonian structural growth preserved in the Cretaceous Western Interior Basin of Wyoming and Utah, USA Christopher Fielding

14.2 - Session 3 - Convergent margin basins; Modelling

1530 - 1730

Plaza Meeting Room 6

Time		
1530	#1861	<i>Modelling Fold and Thrust belt, Diagenesis and Fluid Flow and Pressure Regimes</i> Jean-Paul Callot (Keynote)
1600	#1862	<i>Fluid flow modelling in tectonic wedges</i> Alison Ord (Keynote)
1630	#1863	Formation and deformation of sedimentary basins François Roure

TUESDAY 7 AUGUST 1530-1730 continued

1645	#1864	Numerical modeling of sedimentation controls on the growth of the fold-and-thrust belts Ritske Huismans
1700	#1865	Migration of dynamic subsidence across the Late Cretaceous United States Western Interior Basin in response to Farallon plate subduction Shaofeng Liu
1715	#1866	3D geomodelling of the Yenisei ridge (Siberia) collision structure Sergey Cherkasov
15.1 - Session 5 - Plate tectonics, Large Igneous Provinces and ore deposits 1530 - 1730 Great Hall 1&2		
Time		
1530	#1867	<i>Giant continental rift systems as "ore-making factories" and the mantle plume connection</i> Franco Pirajno (Keynote)
1600	#1868	Calibrating Earth palaeogeography with large igneous provinces and kimberlites: Implications for long-term stability of deep mantle reservoirs Trond Torsvik
1630	#1869	A mantle hydrated by stagnated Pacific slab that produced intraplate continental flood basalts in northeastern China Xuan-Ce Wang
1645	#1870	A data-mining approach to understand the relationships between plumes, oceanic LIPs and plate boundaries Joanne Whittaker
1700	#1871	Geochemistry of mantle xenoliths from Archean diamondiferous lamprophyres, Wawa, Ontario, Canada Derek Wyman
15.4 - Session 1 - Linking deep earth to plate tectonic and surface processes 1530 - 1730 Plaza Meeting Room 7		
Time		
1530	#1872	<i>Mantle structure through joint inversions of seismic and geodynamic data</i> Stephen Grand (Keynote)
1600	#1873	<i>Joint seismic-geodynamic-mineral-physical constraints on the relationship between surface tectonics and the deep-seated dynamics of large-scale hot upwellings in the convecting mantle.</i> Alessandro Forte (Keynote)
1630	#1874	<i>Using the deep Earth to anchor absolute reference frames</i> Hans-Peter Bunge (Keynote)
1700	#1875	Changes in plate motion and vertical movements along passive continental margins Peter Japsen
1715	#1876	Testing alternative reconstructions of the South Atlantic by comparing predicted to observed total tectonic subsidence Nicolas Flament
16.3 - Session 3 - The crust-mantle lithosphere system 1530 - 1745 Plaza Meeting Room 1		
Time		
1530	#1877	Continental crust growth results from continental collision: Ocean crust melting and melt preservation Yaoling Niu (Invited)

TUESDAY 7 AUGUST 1530-1730 continued

1545	#1878	The uppermost mantle evolution during back-arc spreading: Microstructural and petrological characteristics of peridotite xenoliths in the back-arc spreading and continental rifting zones Takako Satsukawa (Invited)
1600	#1879	Arc-continent collision beneath Taiwan Imaged by magnetotellurics Chow-Son Chen
1615	#1880	Velocity-conductivity relations for cratonic lithosphere and their application: Example of Southern Africa Alan Jones (Invited)
1630	#1881	Numerical simulation on thermal conductivity of multi-component-phase rock Shanqi Liu
1645	#1882	Global model for lithospheric strength and effective elastic thickness (Te) Magdala Tesauro
1700	#1883	Seismic Constraints on the crustal structure across the Moroccan High-Atlas Ramon Carbonell
1715	#1884	Mantle flow in the Carpathians and its shallow signature Victor Mocanu
1730	#1885	Isotopic Portrayal of the DUPAL Mantle Domain: Evidence from Ancient Sub-Oceanic Mantle Xijun Liu

18.1 - Session 3 - Building the Australian continent

1530 - 1730

Plaza Meeting Room 8

Time		
1530	#1886	Crustal structure of a latest Mesoproterozoic intracontinental rift - The Ngaangatyarra Rift (Giles Event), central Australia. Alan Aitken
1545	#1887	Syn-tectonic (Petermann Orogeny) deposition tracked through detrital zircon geochronology, western Amadeus Basin, central Australia Peter Haines
1600	#1888	The Basin Architecture of the Lowermost Adelaidean at Arkaroola, SA: The Rifting of Rodinia Rowan Hansberry

21.3 - Session 3 - Subduction zone magmatism including a special session on magmatism in the SW Pacific

1530 - 1730

Plaza Meeting Room 9

Time		
1530	#1889	Paleocene to Eocene tectonic history of the SW Pacific island arc system Sebastien Meffre
1545	#1890	Evolution of the southern Colville and Kermadec arc mantle Monica Handler
1600	#1891	A variably enriched mantle wedge and contrasting melt types during arc stages following subduction initiation in the southwest Pacific Erin Todd (Invited)
1615	#1892	Hf-Nd-He isotope constrains on mantle flow in the northern Lau Back-Arc Basin Oliver Nebel
1630	#1893	Magmatism associated with extension in a modern intra-oceanic subduction setting - Hunter Ridge, SW Pacific Trevor Falloon
1645	#1894	Metal evolution during differentiation of calc-alkaline magmas (Hunter Ridge, SW Pacific) Gisela Cobenas

TUESDAY 7 AUGUST 1530-1730 continued

1700	#1895	Back Arc Basin in the Philippine Arc Basement of Eastern Mindanao? Iris Sonntag
1715	#1896	The New Caledonia Ophiolite: New Insights on the Formation of the Loyalty Basin during the Cretaceous and Paleogene Cassian Pirard
22.3 - Session 3 - Mechanisms of metamorphic reactions and fluid-rock interaction 1530 - 1730 Plaza Meeting Room 10		
Time		
1530	#1897	Fluid flow during alpine LT-HP metamorphism recorded by garnet textures and oxygen isotopes Caroline de Meyer
1545	#1898	Natural history and physics of kelyphitization of garnet Masaaki Obata
1600	#1899	Different generations of garnet growth in differentiated and undifferentiated eclogites in Western Dabie: protolith inheritance during metamorphic reaction Li-Gang Zhou
1645	#1900	Symplectites in eclogites as an evidence of non-dehydration of protolith Celine Martin
23.1 - Session 3 - Martin Glaessner Symposium: The Ediacaran and the Cambrian explosion 1530 - 1730 Mezzanine Room 6		
Time		
1530	#1901	<i>Untangling the taphonomy of the early Cambrian Emu Bay Shale Konservat-Lagerstätte, South Australia</i> John Paterson (Keynote)
1600	#1902	Echinoderm-like Fossils from the Early Cambrian Yanjiahe Biota, Yichang, Hubei, China Junfeng Guo
1615	#1903	Understanding the Agnostida: the significance of insignificant details John Laurie
1630	#1904	Exceptionally Preserved Embryos and ontogeny of Punctatus from the lowermost Cambrian of South China Yong Li
1645	#1905	The organic periderm of polypoid Eolympia pediculata from the Early Cambrian Kuanchuanpu Formation, China Jian Han
25.3 - Session 2 - Physical processes of coastal and shelf sedimentation 1530 - 1730 Qld Museum Theatre		
Time		
1530	#1906	Semi-quantitative coastal sediment budget of the Geraldton embayments (Midwestern Australia) Sira Tecchiato
1545	#1907	Gas production in quaternary deposits in Hung Hom bay, Hong Kong Nigel Ross Wightman
1600	#1908	Introduction of the Continental Shelf Drilling Program Mei Xi

TUESDAY 7 AUGUST 1530-1730 continued

28.3 - Session 1 - Geoscientific mapping, characterisation and conceptualisation of hydrogeological systems

1530 - 1730

Plaza Terrace Room

Time		
1530	#1909	<i>Does Geophysics have a Role in Groundwater Models? An example from Western Nebraska, USA</i> Jared Abraham (Keynote)
1600	#1910	Geophysical Investigations for Groundwater Potential. Assessment and Mapping Structures for possible connections between Geophysical Investigations for Groundwater Potential Assessment and Mapping Structures for possible connections between Lakes Langano and Shala, Main Ethiopian Rift Tagel Assefa Dendi
1615	#1911	Determination of groundwater flow paths and sediment provenance using radon and natural gamma radiation techniques Sanjeeva Manamperi
1630	#1912	3D resistivity mapping of volcanic islands: a tool for a sustainable development Pierre Nehlig
1645	#1913	Mapping key elements of the hydrological cycle to improve surface and groundwater resource assessment and management in Australia Ken Lawrie
1700	#1914	Geofabric and NGIS: collating and standardising spatial groundwater data for Australia Elisabetta A Carrara
1715	#1915	Displaying complex hydrogeological and hydrogeophysical data using an interactive 3D virtual globe viewer based on World Wind Java James Navin

29.4 - Session 1 - Deep weathering through deep time: regolith processes and ore deposits

1530 - 1730

Plaza Meeting Room 5

Time		
1530	#1916	<i>The Darwinian dimension to pedogenesis: lessons from oligotrophic ecosystems of semi-arid temperate Australia</i> William (Bill) Verboom (Keynote)
1600	#1917	Whether to Weather: whatever, wherever and whenever in the Australian geological record Steven Hill
1615	#1918	The terra rossa and karstic bauxite: evidence for origin and processes in Southern China Hongbing Ji
1630	#1919	Fine-grained ferrimagnetic inclusions within coarse silicate particles in Chinese paleosols cause magnetic enhancement Tianshui Yang
1645	#1920	Post-obduction dismantling of the early regolith and associated related conglomerate in the Kopeto-Boulinda-Nepoui area (New Caledonia): a possible Lower Miocene uplift and paleolandscape Brice Sevin
1700	#1921	Geochemical processes of soil formation developed on black shales in central Hunan, China Bo Peng
1715	#1922	Lessons from a weathered Late Miocene - Pliocene strandplain - geochemical evolution of a major sedimentary basin Stephanie McLennan

TUESDAY 7 AUGUST 1530-1730 continued

30.6 - Session 2 - Earth monitoring for improved forecasting of natural hazards

1530 - 1730

Meeting Room S1

Time		
1530	#1923	MASPREM - a project for landslide hazard forecast in Slovenia Marko Komac
1545	#1924	Earthquake precursory studies using continuous soil gas radon monitoring in Taiwan Vivek Walia
1600	#1925	PRESENTATION CANCELLED
1615	#1926	<i>Biogeochemical properties and ecological consequences of the 2011 Floods in Moreton Bay, Queensland</i> Andy Steven (Keynote)
1645	#1927	Understanding conduit dynamics and forecasting major strombolian explosions by ground-based radar interferometry Sandro Moretti
1700	#1928	The role of underwater potentially dangerous objects in modern geological processes and the functional status of ecosystems north-western European seas Gennady Ivanov

31.5 - Session 1 - Improving the development of geological models for engineering studies

1530 - 1745

Boulevard Meeting Room 2

Time		
1530	#1929	<i>Building the ground model for engineering: is it geomorphology not the geology that is crucial?</i> James Griffiths (Keynote)
1600	#1930	Illawarra Escarpment evolution and process rates Phil Flentje
1615	#1931	3D geological modelling and rock mass classing for tunnel design - Brisbane Airport Link Helen Coleman (Invited)
1630	#1932	Conceptual Engineering Geological Models Steve Parry
1645	#1933	Engineering geological mapping and geological modelling as an aid to interpreting a large landslide on the Centenary Highway, near Ipswich, Queensland. David Starr
1700	#1934	The influence of the geological origin on soil volume change through collapse settlement George Brink
1715	#1935	Advancement of CSI index on sitting large scale geological engineering projects Yanjun Shang
1730	#1936	Engineering geology models for seismic vulnerability assessment of distributed infrastructures. Silvia Fabbrocino

32.3 - Session 3 - Earth's Environment 2

1530 - 1730

F1 - Training Room

Time		
1530	#1937	Remote Geotechnical Mapping Above a Major Arterial Road Using Photogrammetric Methods Peter Booth
1545	#1938	Geobotanical in Restinga Forest on sand beach ridges Natasha Penatti

TUESDAY 7 AUGUST 1530-1730 continued

1600	#1939	Hyperspectral imagery applied to Geobotany: Recognition of textural variations in soils and sediments through the spectral signature of superjacent subtropical vegetation physiognomies Cibele Hummel Do Amaral
1615	#1940	Broadband dielectric spectroscopy of undisturbed soil samples Jurij Karlovsek
1630	#1941	Statistical analysis of simultaneous start of thermokarst caused by permafrost degradation. Timofey Orlov
1645	#1942	HYSOMA software interface- Update and validation Sabine Chabrilat
1700	#1943	<i>Geoscience Remote Sensing and the Group on Earth Observations</i> Stuart Marsh (Keynote)

33.5 - Session 1 - Geologists, resource exploration and development: an historical perspective 1530 - 1730

GeoExpo Hospitality Room 1

Time		
1530	#1944	<i>An historical account of selected Queensland, New South Wales and Papua New Guinea mineral discoveries</i> Tony Hope (Keynote)
1600	#1945	Rocks in Their Heads Maggie Hayes
1615	#1946	Minerals and Energy: Supporting Economic Growth in Australia and the Region Paul Kay
1630	#1947	Post-war revolution in mineral exploration activity and the economic remaking of Australia Donald Perkin
1645	#1948	How misconceptions, the space race and perseverance lead to the discovery of 27 Tcf of gas on Australia's Northwest Shelf forty years ago. Don Poynton
1700	#1949	Dunite, Rodingite, Hydrogrossular, Awaruite and Wairauite - rocks and minerals named from the Dun Mountain Ophiolite Belt, New Zealand Mike Johnston

34.2 - Session 2 - Geological and metallogenic responses to deep processes in eastern Asia and continental margins 1530 - 1730

Plaza Meeting Room 11

Time		
1530	#1950	Basic features of the Precambrian geology of China adjacent areas Liudong Ren
1545	#1951	Formation and evolution of Western Junggar tectonic system in Western China and its controlling on distribution of geochemical blocks, anomalies and mineral deposits Xuanhua Chen
1600	#1952	The Oil-Gas Geologic Features of Central Asia and Adjacent Areas Guoqing You
1615	#1953	Deep structure beneath East Asia and Central Asia from teleseismic P-wave tomography Hongwei Zheng
1630	#1954	Comparison of the magmatic deposits associated with the Permian-Triassic LIPs on Siberia of Russia and Emeishan of China Jianmin Liu

TUESDAY 7 AUGUST 1530-1730 continued

1645	#1955	A view of the Neoproterozoic plutonism in the Korean Peninsula: Implications for the amalgamation and break-up of the Rodinia supercontinent Weon-Seo Kee
1700	#1956	New tectonic implication of Early Cretaceous volcano-sedimentary basins in the Korean Peninsula Bok Chul Kim
1715	#1957	Large-scale mineralization and the dynamic evolution process in China & Adjacent Areas Ruizhao Qiu
35.2 - Session 1 - International Subcommittee on Neoproterozoic stratigraphy: Neoproterozoic chronostratigraphy and the evolution and diversification of metazoa and evolution of the Earth system 1530 - 1745 Mezzanine Room 9		
Time		
1530	#1958	<i>Molecular clocks and the Cambrian explosion: What have we learned?</i> Bruce Runnegar (Keynote)
1600	#1959	U-Pb chronology of the Ediacaran geology and associated fossils of Charnwood Forest, UK Daniel Condon
1615	#1960	Environmental and taphonomic control on the composition of assemblages of the Ediacara biota. James Gehling
1630	#1961	Affinity of the earliest organically-preserved Ediacaran metazoan Sabellidites revealed by its microstructure and biogeochemistry Malgorzata Moczydlowska
1645	#1962	Unique Pre-Wonoka Ediacaran biota of soft-bodied organisms in southwestern Siberia Julius Sovetov
1700	#1963	Post-Doushantuo Ediacaran biostratigraphy of South China and its implication for global correlation Shuhai Xiao
1715	#1964	<i>Recent progress in the Ediacaran stratigraphy of South China: Implication for subdivision of the Ediacaran System</i> Maoyan Zhu (Keynote)
1730 - 1830		POSTER SESSION
1830 - 1930		Public forum 2: Professor Iain Stewart (UK) "Living with a restless Earth"

Poster Session - Tuesday - Mezzanine Level

Symposium #	Poster Board	Presenter	Title
1.2	#001	Natalie Balfour	The Australian Seismometers in Schools Project: Educating students in earth shaking science.
	#002	Glen Bann	Living Geodiversity = Life Rocks! A holistic eco-geo-enviro science education program to facilitate the teaching of the new national Earth and Environmental Sciences curriculum.
	#003	Celso Carneiro	Geo-Ideias: the Earthlearningidea activities in Portuguese
	#004	Hyun-Jung Cha	The modelling and interaction between students and teacher in earth science learning for gifted students
	#005	Renee Clary	Integration of enquiry fossil research approaches and students' local environments within online geoscience classrooms
	#006	Pedro Goncalves	Teacher education for Earth Sciences: an approach of Earth System Science to understand the cycle of sand
	#007	Pedro Goncalves	Argumentation in field trips of Earth System Science: an evaluation of learning of geology and geography undergraduate program
	#008	Hyun Ji Ko	An Analysis on the Case and Type of Rebuttal in Argumentation of Science Gifted Student
	#009	Hong Jin Kwon	A Study on science-gifted students' perceptions on field trip at Geoparks in Jeju Island, Korea
	#010	Gary Lewis	Teacher Advocate Program: supporting K-12 teachers to be advocates for geoscience.
	#011	Keishin Murayama	Demonstration of the soil liquefaction in my class
	#012	Lidmila Nemcova	Art in the education process - increasing ethical sensibility for the Earth and human kind
	#013	Vaclav Nemec	(Geo)education and (geo)ethics
	#014	Bronte Nicholls	Experiences from the Australian 2011 International Earth Science Olympiad team
	#015	Yoshio Okamoto	'The New Martian Chronicles, Counting Edition' -Enjoying 'crater chronology' with high school students-
	#016	Oriol Oms	Edition tool for geological field trips in the GEOCAMP website of field activities.
	#017	Dolores Pereira	An ERASMUS Intensive Programme: an opportunity to spread geoscience education among a wider community through the students
	#018	Takashi Sawaguchi	Development of interactive iPhone application for geoscience education (Plate movement)
	#019	Patricia Vickers-Rich	The Importance of Early Child Geoscience Education
2.2	#020	Afia Akhtar	Earthquake: A great threat for urban infrastructure and environmental ecosystem
	#021	Perla Delos Reyes	Liquefaction Hazard Mapping in the Philippines
	#022	Sospeter Muhongo	Geoplanning for urban development and infrastructure and protecting ecosystems
	#023	Dicky Muslim	Geological Hazard Investigation in Lombok Island as Pilot Area of Georisk Project Phase III in Indonesia
2.5	#024	Xiang Gao	Evaluation of the Quaternary Powder Quartz Deposit in Bolikensai province, Laos
	#025	Siyan Malomo	Regional favourability Appraisal of Platinum Group Elements (PGE) and Ni-Cr Mineralisation in The Basement Complex of Nigeria

Poster Session - Tuesday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
3.3	#026	Shitao Chen	Wavelet analysis of millennial-scale oscillation in stalagmite records during the last glacial
	#027	Yingfang Cui	Stalagmite isotopic and lithologic records of the past millennia from Heilong Cave, central China
	#028	Fucai Duan	A high-resolution monsoon record of millennial-scale oscillations during Late MIS3 from Wulu Cave, China
	#029	Yansheng Gu	Magnetic properties and molecular fossils derived from red paleosols (Southeast China): implications for the pedogenic intensity and climate change in the mid-lower Pleistocene
	#030	Li-Jung Huang	Asian monsoon variability during 133-200 ka inferred from oxygen isotope records of stalagmites from Yangkou Cave, Chongqing, China
	#031	Yoshio Inouchi	Lake-level changes of Lake Nojiri, Japan and its impact on Human society
	#032	Alessandra Negri	Plio–Pleistocene high–low latitude climate interplay: A Mediterranean point of view
	#033	Ravindrasing Pardeshi	REE Geochemistry of an intrabasaltic red bole horizon occurring within the Deccan Trap basalts from western coastal tract of India.
	#034	Christa Placzek	Southward movement of the Intertropical Convergence Zone over South America during Heinrich Events
	#035	Sandra Siteo	Evidence of three high magnitude flooding events during the last 800 years in the Limpopo River flood-plain, Mozambique
	#036	Kevin Welsh	Millennial-scale variability in East Australian precipitation observed in Central Eastern Queensland speleothem
	#037	Kan Zhao	Monsoon changes over the past 1200 years reconstructed from annually-banded stalagmites in Dongge Cave, China
3.4	#038	Mary-Anne Binnie	Benthic foraminifera as environmental proxies — a southern perspective
	#039	Andrew Glikson	Fire and human evolution: a deep time perspective
	#040	Yuriy Goldfarb	Pleistocene climate peculiarities in the Chersky mountain system (the upper Kolyma and Indigirka river basins)
	#041	Anatoly Lozhkin	Northern Priokhot'ye (Russia) during the Late Pleistocene and Holocene: continuous pollen records from lake sediments
	#042	Anatoly Lozhkin	Environmental changes in Beringia during the Late Cenozoic as recorded in sediments from El'gygytyn Lake, Polar Chukotka, Russia
	#043	Nicolas Parubets	Global warming: some deductions on its effect on the lithosphere
4.1	#044	Miyuki Hirota	Mineralogy and leaching behavior of hydrothermally altered rocks in mining area: Comparison of the sulfur-pyrite ore deposits of southern Hokkaido, Japan
	#045	Xiancai Lu	Mineralogy and environmental effects of the hardpan covering on Cu-Au tailings in the Shizishan polymetallurgy mine
	#046	Juraj Majzlan	Internally consistent thermodynamic database for divalent metal sulfates
	#047	Paulo Roberto Markoski	Application of remote sensing techniques to characterization and mapping of amethyst mining residues

Poster Session - Tuesday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
	#048	Eliane Poveda	The Surety Bond as a mitigator of environmental damages for Mine Closure
	#049	Gabi Schneider	Risk Assessment of Abandoned Mine Sites in Namibia
	#050	Nosir Shukurov	Heavy metals concentration in soil and their impact on soil biological properties in Kintyre Pb mining area, Jamaica.
	#051	Igor Spiridonov	Tripoli-organic composite as a sorbent for cleaning water polluted with oil products
	#052	Wendy Timms	Environmental 'time machine' for assessing low permeability soils, tailings and rock
5.1	#053	Yoshiharu Nishioka	Design of Smart Tiles System Architecture and application to Seamless Geological Map of Japan
	#054	Vladimir Poroskun	GIS Technologies in Monitoring of Subsoil Use and Regional Oil and Gas Exploration in the Russian Federation
	#055	Mark Rattenbury	OneGeology's opportunity in and around Antarctica
	#056	Stephen Richard	USGIN update—a community of practice for Geoscience data discovery and access
	#057	Stephen Richard	Access to State Geological Survey data for geothermal energy development in the United States
	#058	Stephen Richard	GeoSciML portrayal – an intermediate path to interoperable web map services
	#059	Urszula Stepień	Interoperable geological map data: Polish - Ukrainian cooperation in international initiative OneGeology
	#060	Udo Strauss	Connecting Distributed Geoscience Data across the Web
	#061	Koji Wakita	Development of Asian Geoinformation Infrastructure for Geology and Minerals
	#062	Koji Wakita	MobileTG: OneGeology on iPhone and iPad for OneGeology Asia
	#063	Claudia Xavier Machado	Geographic Information System for integration of technical and spatial data to support CCS in Brazil
	#064	Shiqiang Yan	Geological Data Management and Service in China Geological Survey
	#065	Vadim Zvezdov	Geospatial-Supporting GIS Design and Management: Russian Part of Rudny Altai
5.6.07	#066	Ke Guo	Considerations on geological application products classification of hyperspectral remote sensing
	#067	Chen Jianping	3D metallogenic prediction based on knowledge-driven model
	#068	Azimkhan Kurmankozhayev	The structural and empirical approach to estimate the distribution of quality indicators of minerals
	#069	Mangen Li	Spatially weighted principal component analysis for separating mineral potential anomalies using multi-source datasets in the Tuotuohe mineral district, Qinghai, China
	#070	Yongzhang Zhou	Hierarchical paths of migration of impurity trace elements in source rocks and resulted conjugate geochemical anomalies using mathematical modeling and computer simulation
	#071	Aleksandr Otmas	Forecast of parameters of local structures and their oil and gas resources in platform areas (based on statistical regularities)
	#072	Hisafumi Asaue	Deep geological structure modeling in a coal-mining area using resistivity data by MT survey

Poster Session - Tuesday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
	#073	Youqing Chen	Application of terahertz technology to detection of geo-materials
	#074	Deyi Xu	ALCa transformation and the impact of calcium on the forming processes of sphalerites
	#075	Tetsuro Yoneda	Significance of mineral properties as an indicator in exploration of ore deposits: Application of particle size analysis of phyllosilicate minerals from hydrothermal alteration zones of mining area in Japan
6.1	#076	Michel Malo	Site characterization of a deep saline aquifer in the Paleozoic St. Lawrence platform, Province of Québec, Canada
	#077	Michael Mckillop	Assessment of Queensland's sedimentary basins for carbon geostorage
	#078	Kuniyuki Miyazaki	Triaxial compression test of artificial sediment sample containing supercritical carbon dioxide
	#079	Majid Nasehi	Enhanced Oil Recovery and CO ₂ Storage Potential in Heavy Oil Reservoirs: A Simulation Study
	#080	Ricardo Olea	Aggregation of resources in the context of CO ₂ geosequestration
	#081	Julie Pearce	New laboratory experiments simulating CO ₂ storage with co-contaminants
	#082	Tina Roberts-Ashby	Assessment of potential geologic CO ₂ storage reservoirs in major sedimentary basins of the United States and an evaluation of vertical heterogeneity and lateral continuity within select reservoirs
	#083	Tetsu Tokunaga	Brine Film Thicknesses in Reservoir Pores During Geologic CO ₂ Sequestration
	#084	Orlando Vaselli	CO ₂ emission from two old mine drillings (Mt. Amiata, Central Italy) as a possible example of storage and leakage of deep-seated CO ₂ .
	#085	Joonas Virtasalo	Potential geological CO ₂ storage in deep aquifers beneath the Baltic Sea
	#086	Jiamin Wan	Dewetting of silica occurred after reaction with supercritical CO ₂
	#087	Liuqi Wang	Water-rock interaction after CO ₂ injection into saline aquifer: A case study of Early Cretaceous Gage Sandstone, offshore southern Perth Basin, Australia
	#088	Raheela Zaheer	CO ₂ sequestration potential of the James Price Point area, Canning Basin, Western Australia
	#089	Alba Zappone	Carma – CARbon MAnagement in Power Generation: CO ₂ geological storage in Switzerland
	#090	Alba Zappone	Induced seismic responses to fluid injection in geothermal and CO ₂ reservoirs in Europe
7.2	#091	Lee Allison	Challenges to developing potash in the Holbrook basin, Arizona, USA
	#092		POSTER CANCELLED
	#093	Pasi Heino	Siilinjärvi carbonatite-glimmerite, Finland: Archean apatite mine
	#094	Upali De Silva Jayawardena	A study on the soundness of crusher dust from different quarries in Sri Lanka

Poster Session - Tuesday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
	#095	Kankun Jin	The kaolinite associated with coal-bearing strata in China
	#096	Olga Kotova	Minerals of fine classes of bauxites - future source of construction materials
	#097	Stefan Marincea	Contrasting types of boron-bearing deposits in magnesian skarns from Romania
	#098	Antônio Santos	Cretaceous Kaolin deposits of Amazon region, Northern Brazil: Sedimentologic and stratigraphic investigation in order to understand kaolin quality to the industry paper
	#099	Aleksandr Smirnov	Fossil Ivory Deposits as a Result of Evolution of the Arctic Cryolitic Zone during the Pleistocene- Holocene
	#100	Atiye Tugrul	Assessing the stripping properties of granites for use as aggregate in asphalt
	#101	Aleksey Vashchenok	Complex Shaidomskoe Deposit of Building Stone and Industrial Minerals: 350 types of commodities
	#102	Jean-Frank Wagner	Geotechnical and geochemical assessment of suitability of clay/shale materials as low-cost landfill liners: a case study from a developing country
	#103	Linjiang Wang	In-situ synthesis of Mg-Al spinel using layered double hydroxide as precursor
7.5	#104	Sharifa Khudobakhshova	Stages of development of the mining industry in Tajikistan
	#105	Elena Levchenko	Application of anhydrous processing of buried titanium-zirconium placers
	#106	Gargi Mishra	Sulfide texture and flotation response - A case study from Nkomati mine, Uitkomst Complex, South Africa
	#107	Vander Mol	Mineralogical Modeling, an iron ore example - Fábrica Nova Mine – Quadrilátero Ferrífero - Brazil
	#108	Yubo Yin	The Optimizational analysis for Experimental study of Iron-Based Diamond Drill Bit Matrix Formula
8.1	#109	Zsolt Benko	Role of distant and local magma/footwall interaction in formation of Cu-Ni-Pge sulfide ores in the South Kawishiwi Intrusion of the Duluth Complex, Minnesota, USA
	#110	Cleyton Carneiro	Airborne geophysical characteristics of hydrothermal magmatic deposits in the Tapajós Gold Province, Amazon, Brazil
	#111	Gabor Gaál	Orogenic mineralizations – a new exploration target for gold-Polymetallic ore deposits in Greece
	#112	Mansour Ghorbani	Introducing Magnesite Deposits of Afghanistan and Ranking of the Magnesite-bearing Areas
	#113	Simon Jowitt	Lithogeochemistry of Palaeoproterozoic dyke swarms of the Slave Craton, Canada: implications for Ni-Cu-PGE prospectivity
	#114	Loren Nicholls	Hydrothermal alteration and vein characteristics in the western Cracow Goldfield, central Queensland: Implications for ore genesis and exploration models
	#115	Lyudmila Veremeeva	Appraisal of prospects for buried commercial placers of Ti-Zr placer provinces in Australia and Russia on the basis of reconstruction of the system: 'bedrock - intermediate collector - Ti-Zr sands'
	#116	Vadim Zvezdov	Models of Cu-porphyry ore-forming systems
9.2	#117		POSTER CANCELLED

Poster Session - Tuesday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
9.2	#118	Elena Amplieva	The Semenov modern submarine hydrothermal massive sulfide cluster (13°31'N, Mid-Atlantic Ridge)
	#119	Dane Burkett	The Archean Bentley Zn-Cu volcanogenic massive sulfide deposit: alteration and chemostratigraphy
	#120	Vladimir David	Paleo-fluid flow modelling, example Elura Zn-Pb-Ag deposit, Australia
	#121	Runsheng Han	Fluid 'Penetrated' Mineralization Model for Rich Zn-Pb-Ge-Ag Deposit Concentrated District in Northeastern Yunnan *
	#122	Nigel Kelly	Understanding the effects of metamorphism and deformation on ore deposits: Izok Lake VHMS Deposit, Nunavut, Canada
	#123	Thomas Monecke	Hydrothermal alteration of the mudstone host of the Jurassic Eskay Creek Deposit, northwestern British Columbia
	#124	Thomas Monecke	Water depth of massive sulfide formation: constraints from the modern seafloor
	#125	Kirsten Nicholson	Deformational history of the McKay Hills area, Mayo Mining District, Yukon Territory, with implications for controls on mineralization.
	#126	Nevzat Özgür	A new genetical copper deposit model from the East Pontic metalotect, NE Turkey: the Murgul type
	#127	Victor Puchkov	The conditions of an origin and localization of volcanic-hosted massive sulphide (VMS) and copper-porphyry (CuP) deposits of the Southern Urals
	#128	Georgy Ruchkin	The environments and regularities in VMS mineralization and prospective models for Rudnyaltai type ore deposits (Altai region)
	#129	Mohammad Safari	Relation Massive Sulfide Kuroko-Type Deposits of Au-Fe Rich with 'Resurgence Calderas' and Brecciated - Rhyolitic domes In Kaboodan-Taknar area NE Iran
	#130	Hisashi Sekiguchi	Miner elements in magnetite – a case of skarn deposits in Japan
	#131	Abish Sharapatov	The results of deep geophysical research of Torgay iron ore belt
	#132	Vitaly Shatov	Geology and Alteration Controls of Base Metal VHMS Mineralization of the Irtys Ore District, Rudny Altay (East Kazakhstan)
	#133	Michael Thomas	Sequence stratigraphy, provenance and uranium prospectivity of the North Canning Basin, W.A.
	#134	Alexey Volchkov	Lateral Temporal Series of Geological and Mineral Formative Enviroments in the West Magnitogorsk Volcanic Belt, South Urals
	#135	Lei Wang	The diapir structural ore controlling regularly In Fengshan Copper Deposit ,Yimen,Yunnan
	#136	Haizhi Wu	Fluid inclusion study of Liuju and Haojiahe copper deposits in Chuxiong red bed basin, Yunnan, China
	#137	Zhaowen Xu	Evolution of the ore-forming fluids and their relation to mineralization of the copper deposits in Zouping volcanic area, Shandong Province, eastern China
	#138	Yongqiang Yang	Geological characteristics of the Daijiazhuang nonsulfide Zn deposit, Gansu Province, China

Poster Session - Tuesday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
	#139	Eduardo Zappettini	La Casualidad BMF volcanogenic deposit, Neuquen, Argentina: mineralogy and genesis
11.5	#140	Anelize Bahniuk	Microbialite facies of Mid-Cretaceous Codó Formation, NE Brazil: Coupled sedimentological and “clumped” isotope paleoenvironmental analysis of a potential reservoir rock
	#141	Anatoly Dmitrievskiy	Russian Arctic Shelf: Petroleum Exploration and Prospectivity.
	#142	Kathleen Grey	Stromatolite biostratigraphy in the western Amadeus Basin
	#143	Meshack Kagya	Hydrocarbon Potential and Status of Exploration Development in Tanzania
	#144	Yury Nikitin	Middle Carboniferous sand fans at the Pricaspian Basin's North-West
	#145	Ying Jia Teoh	Subsurface correlation of the Nita and Goldwyer Formations in the southern Broome Platform, Canning Basin
	#146	Mykola Yakymchuk	Application of mobile geophysical technologies for hydrocarbon accumulations prospecting in frontiers areas
	#147	Wen Zhou	Reservoir Evaluation of Sarah Formation in Block B, Rub AL Khali Basin(Saudi Arabia)
12.1	#148	Jinhua Chen	Geo-mechanical modeling of CBM Well Casing Damage in Active Coal Mining Areas in China
	#149	Stephanie Hamilton	Coal seam gas domains of the Walloon Subgroup, eastern Surat Basin, Queensland, Australia
	#150	Guiying Lu	An auxiliary grouting as while as drilling tool used for underground methane extraction
	#151	Ross Randall	Queensland's coal seam gas - the basis of a new export industry
13.2	#152	Christophe Basile	Sequence stratigraphy: What can we learn from bedding attitudes? A test from IODP Leg 313, New Jersey margin
	#153	Christophe Basile	Correlated density and magnetic susceptibility in siliciclastic sediments (IODP Leg 313 - New Jersey shelf) : origin and implications
	#154	Sandro Demuro	Medium and short-term evolution of two beaches on NE Sardinia: La Cinta (San Teodoro, OT) and Budoni (OT)
	#155	W. Burleigh Harris	Preliminary Upper Cretaceous sequence stratigraphy of the North Carolina Coastal Plain, USA
	#156	Wenxuan Hu	The Early Cretaceous transgression in coastal southeastern China by petrographical, paleontological and geochemistry study
	#157		POSTER CANCELLED
	#158	Ho Il Lee	Soft-sediment deformation records in the Pleistocene marine terrace deposits in SE Korea
	#159	Hyun Suk Lee	The mixed carbonate-siliciclastic deposition on epeiric sea during the initial transgression: the depositional environments of the Liguan and Zhushadong formations, Shandong Province, China
	#160	Chuanlong Mou	Lithofacies paleogeography of the early Cambrian (Terreneuvian - Series 2) in the Middle-Upper Yangtze region of China
	#161	Marivaldo Nascimento	Sedimentary environment and provenance of the sandstones of the Rio Maria Formation(Neoarchean-Paleoproterozoic), Carajás Province, southeastern Amazonian craton, Brazil

Poster Session - Tuesday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
14.2	#162	Laurent Beccaletto	The response of the French sedimentary basins to the Pyrenean and Alpine compressive phases: insights from the reprocessing and interpretation of regional seismic lines
	#163	Shuping Chen	Multi-level decollement zones and their controls on structures of Dongpu sag, Bohai Bay Basin, China
	#164	Peter Dahlqvist	New insights on the geological evolution of the Baltoscandian margin during Iapetus closure and Baltica-Laurentia collision
	#165	Rowan Hansberry	Shale detachments: Their control of fold-thrust belt geometries
	#166	Naoko Kato	Development of active fault-related folds revealed by high-resolution seismic reflection profiling in the Niigata basin, central Japan
	#167	Haruo Kimura	Shear displacement along a blind strike-slip fault revealed by a surface continuous broader drag deformation in the Izu Peninsula in the collision zone between the Izu-Bonin-Mariana arc and the Japan arc
	#168	Rukui Lu	Tectonic affinity of the Late Paleozoic Sedimentary Basin in the boundary area of the Qinling and Qilian Mts.
	#169	Hans Niemeyer	The Ocoyic tectonic phase in Cordón de Lila, northern Chile
	#170	Uri Shaanan	Structural geology of the Hunter Valley Dome Belt, New South Wales, Australia: New field constraints from outcrop-scale 3D photogrammetry
	#171	Li-Jun Song	Dynamics, formation and reconstruction of the Lishu Fault-depression, Songliao Basin, China
	#172	Marten Ter Borgh	The isolation of the Central Paratethys: how orogenesis and sea level fluctuations contributed to the demise of a large inland sea
	#173	Chengshan Wang	Revision of the Cretaceous–Paleogene stratigraphic framework, facies architecture and provenance of the Xigaze forearc basin along the Yarlung Zangbo suture zone
15.1.01	#174	Kara Matthews	Multi-Scale Dynamics of the 50 Ma Plate Reorganization
	#175	Rustam Mirkamalov	New results of U-Pb (SHRIMP) dating of granitoid and metamorphic complexes of Tien Shan folded belt
	#176	Simon Richards	The formation of slab tears and the evolution of arcs
	#177	Sara Satolli	APWP reconstruction using data from orogenic belts: Preliminary results from Jurassic/Cretaceous sections in the Northern Apennines (Italy)
	#178	Zhentian Sun	The statistical analysis on the correlation between seismic anisotropy and global plate motion
	#179	Sabin Zahirovic	Opening of the Proto South China Sea and the growth of Borneo through Cretaceous accretionary episodes
15.1.03	#180	Shengbiao Hu	Paleogeothermal record of the Emeishan mantle plume: evidences from borehole Ro data in the Sichuan basin, SW China
16.3	#181	Yinshuang Ai	The mantle transitional zone structure beneath the central and the western North China Craton
	#182	Jean-Yves Cottin	Dunite cumulates from the Piton Chisny, La Réunion: insights into primary melt evolution processes in a near-Moho crustal magma chamber

Poster Session - Tuesday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
	#183	Manuel Fernandez	3D lithospheric structure and regional/residual Bouguer anomalies from Arabia-Eurasia collision in Iran
	#184		POSTER CANCELLED
	#185	Alan Jones	Electrical conductivity of continental lithospheric mantle from an integrated geophysical and petrological approach: application to the Kaapvaal Craton, southern Africa
	#186	Alan Jones	Reconciling Seismic, Electromagnetic and Xenolith Constraints on Lithospheric Thickness and Composition of the Kaapvaal Craton, South Africa
	#187	Alan Jones	Lithospheric-scale geoelectrical structures and their geometries of central Tibetan Plateau from INDEPTH magnetotelluric data
	#188	Mary-Alix Kaczmarek	The Marum ophiolite Complex (Papua New Guinea): The origin of depleted peridotite
	#189	Mariusz Majdański	POLCRUST – a deep reflection seismic profile across the Trans-European Suture Zone in SE Poland
	#190	Terry Mernagh	A Non-Destructive Raman Test for Recognition of Subduction Diamond
	#191	Michael Mints	Deep structure, evolution and mineral deposits of the Early Precambrian basement of the East European Platform: Interpretation of the materials on the 1-EU geotraverse and profiles 4B and TATSEIS
	#192	Ruizhao Qiu	A New Pattern of Tectonic Units and its implication in China & Adjacent Areas
	#193	Michelle Salmon	AuSREM - Australian Seismological Reference Earth Model
	#194	Alexander Smelov	Diamonds from Archean Olondo greenstone belt (western Aldan-Stanovoy shield, Siberia)
	#195	Magdala Tesauro	Temperature and rheology variability of the North American lithosphere: new input and main results
	#196	Youxue Wang	Lithospheric structure beneath Himalayan Orogenic Belt and Tibetan Plateau
	#197	Tianyu Zheng	An evidence of the Pacific subduction modifying ancient continent from the lithospheric thinning in South China Block
	#198	Anatoly Zhirnov	The geological law of the continents and 'oceans' autonomic development
	#199	Anzhela Zhirova	3D complex geophysical modeling for construction upper crust model of the Central Kola region
17.2	#200	Liang Chen	Late Archean Tholeiite- Magnesian andesite (MA) -Niobium-enriched basalt (NEB) association in Guyang greenstone belt, North China
	#201	Gilmara Feio	Archean granitoid magmatism in the Canaã dos Carajás area: implications for crustal evolution of the Carajás province, Amazonian craton, Brazil
	#202	Esa Heilimo	Role of mafic and felsic-end members in "sanukitoid suite"?
	#203	Mudlappa Jayananda	Late Archean crustal accretion patterns and continental growth in the Eastern Dharwar Craton: Constraints from SHRIMP U-Pb zircon ages and whole rock geochemistry
	#204	Neal Mcnaughton	U-Pb ages and Hf-isotope systematics of detrital zircons from the Gadag Greenstone Belt: Implications for the Archean crustal growth processes in the western Dharwar Craton, India.

Poster Session - Tuesday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
	#205	Jill Vantongeren	Phase relations and density considerations in a thick (>25 km) Archean "oceanic" crust
18.1	#206	Jade Anderson	P-T and geochronological constraints on the tectonothermal history of metamorphic belts in the southern Arunta Region
	#207	Caroline Forbes	The 1600-1570Ma event in Australia
	#208	Kathleen Lane	Metamorphic and geochronological constraints from the core of the Kalinjala Shear Zone, South Australia
	#209	Kieran Meaney	Proterozoic structure, geochronology and metamorphic history of the Warren Inlier, Mount Lofty Ranges, South Australia.
	#210	Laura Morrissey	Grenvillian-aged reworking in the southern North Australian Craton, central Australia
	#211	Delia Rösel	U-Pb LA-ICP-MS dating of detrital rutile and zircon: constraints on the provenance of Paleoproterozoic sediments from the Reynolds Range, central Australia
	#212	Teena Rusak	Mapping of the Mesoproterozoic Musgrave Province in South Australia: Geochemistry of Pitjantjatjara Supersuite granites and their relation to Birksgate Complex gneisses
21.3	#213	Yoji Arakawa	Petrological and geochemical characteristics of Nanzaki basanite in northern part of Izu volcanic arc, Japan: implications to their origin and generation
	#214	Glen Bann	Physical volcanology of the initial stages of the Permian Gerringong Volcanics, Sydney Basin: explosive eruptions and intrusions associated with the Jervis Bay and Wandrawandian Volcanoes.
	#215	Batkhashig Bayaraa	Magmatic-hydrothermal activity in the Shuteen Complex, South Mongolia
	#216	Vanessa Colas	LA-ICP-MS analysis on chromite: a guide for the geodynamic setting of formation of Ultramafic Massifs in the Bulgarian Rhodopes
	#217	Daisuke Endo	A characteristic REE pattern in Niijima rhyolites, Izu-Bonin volcanic arc, Japan
	#218	Fumihiko Ikegami	The structural reconstruction of the Kikai submarine caldera in the southern Kyushu, Japan
	#219	Allyson Jennings	An experimental investigation of primitive magmas from the Kermadec Arc
	#220	Mary-Alix Kaczmarek	Lithosphere as inferred from mantle xenoliths from Dragon Seamount (Southern Tora-Madeira Rise)
	#221	Wencan Liu	Evolutional Stages and tectonic setting of Paleozoic-Early Mesozoic intrusive rocks in Central Inner Mongolia
	#222	Tatiana Rusakova	Okhotsk-Chukchi Cretaceous Magmatic Province: tectonics, mineralization, age
	#223	Ping Shen	Zircon U-Pb ages and Sr-Nd isotopic composition of Paleozoic volcanic rocks in Xiemisitai Mountains, Xinjiang, China
	#224	Richard Wysoczanski	Redox state of Kermadec Arc and Havre Trough mantle and magmas
	#225	Wen-Liang Xu	Spatial-temporal variations of Mesozoic volcanic rocks in NE China: constraints on Mesozoic evolution of the Mongol-Okhotsk and circum-Pacific tectonic systems

Poster Session - Tuesday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
	#226	Yoshiaki Yamaguchi	Sulfide precipitation from pre-boiling basalt magma: A record of high SO ₂ concentration of arc primary magma in central-northeastern Japan
	#227	Federica Zaccarini	The geodynamic setting of PGM-bearing Platinum chromitites from the Sulawesi ophiolite belt
	#228	Chengli Zhang	Zircon U-Pb dating and Hf isotopic constraint on the Mianlue tectonic zone between North and South China Block
	#229	Yufang Zhong	Zircon U-Pb age and geochemistry of Ordovician appinitic rocks in Northern Jiangxi province -a neglected important record of Caledonian Orogen in South China
	#230	Jianwei Zi	Stabilization of continental crust during ocean closure and continental collision: the record from the Paleo-Tethys, SW China
22.3	#231	Olga Ageeva	An EBSD study of feldspathoid-potassium feldspar intergrowths in rocks of the Khibiny Massif and implications for genetic interpretation
	#232	Ralph Bottrill	Petrology and geochronology of unusual Fe-Mg and Na-rich lithologies, Savage River, Tasmania
	#233	Lilu Cheng	Fluids dilution as the mechanism for rejuvenation of near-solidus magma bodies :A case study of EGPB
	#234	Shun Guo	Does the lawsonite really exist in UHP eclogite in Dabie orogen (China)? : New evidence from trace element budget
	#235	Xu-Ping Li	Formation and breakdown of Ti-clinohumite in antigorite serpentinite of the Zermatt-Saas ophiolites and garnet peridotite of the Sulu ultramafic complex
	#236	Atsushi Okamoto	Serpentinization in Ol-Opx-H ₂ O system at 250°C and Psat
	#237	Gaetano Ortolano	Assessment of CO ₂ entrapment/release during medium to high pressure orogenic metamorphism of amphibole-garnet schist by means of internally buffered PT-Xfluid isochemical sections
	#238	Alexey Pertsev	Reducing reactions of hydrothermal front in lower-crustal magmatically active zone: an example from the Vema lithospheric section, Central Atlantic
	#239	Marian Putis	Orthopyroxene breakdown into perovskite and andradite garnet: A result of harzburgite - fluid interaction in the mantle and subduction channel
	#240	Hanae Saishu	The effect of Aluminum and Sodium to precipitation of silica minerals
	#241	Anastasiya Starikova	A melilite-bearing high-temperature calcic skarn, the Tazheran massif, Western Baikal area, Russia.
	#242	Charles Verdel	Rapid estimation of low-grade metamorphic conditions from drillcore using infrared spectroscopy
	#243	Zoja Vukmanovic	Metamorphic microstructures in komatiite hosted-Ni sulphides from the Yilgarn Craton, Western Australia
	#244	Vladimir Zacek	Natural and recently formed combustion metamorphic rocks and minerals in the Czech Republic
	#245	Ronghua Zhang	Dissolution kinetics of some silicate minerals in water up to 400°C: Effect of water properties within the critical region

Poster Session - Tuesday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
23.1	#246	Marissa Betts	A bounty of bradoriids - biodiversity, biogeography and biostratigraphy of richly diverse lower Cambrian assemblages from South Australia
	#247	Alan Collins	The biogeochemical status of the Palaeo-Pacific Ocean: clues from the early Cambrian of South Australia
	#248	Gheorghe Oaie	Traces of organic activity and microbial mats in the Ediacaran basement of the Moesian Platform, Romania
	#249	Tae-Yoon Park	Skeletal loss in stem-group cnidarians: implications for the enigmatic animal <i>Jiucunia petalina</i> from the Chengjiang biota and cnidarian evolution
	#250	Stephen Rowland	A Late Ediacaran demosponge from Nevada, USA
	#251	Maria Zakrevskaya	Kimberella - Phanerozoic Metazoa pioneer of the Precambrian communities
25.2	#252	El Hassane Chellai	Cenomanian-Turonian oceanic anoxic events in shallow and deeper shelf environments of Atlantic Morocco
	#253	Shou-Yeh Gong	Early Holocene sea-level rise in western Luzon, Philippines
	#254	Chuanlian Liu	Late Quaternary coccolith records in the South China Sea and East Asian monsoon dynamics
	#255	Relu Dumitru Roban	Holocene paleobiotas in the NW Black Sea
	#256	Maria Seton	Ocean basin volume constraints on global long-term sea level
	#257	Glen Bann	Displacement of a newly identified mega-boulder across a coastal rock platform south of Sydney, Australia: tsunami or catastrophic storm wave?
25.3	#258	Hayley Cawthra	Sedimentation on the narrow (8 km wide), oceanic current-influenced continental shelf off Durban, KwaZulu-Natal, South Africa
	#259	Nianqiao Fang	The characteristics of carbonate sedimentation and its implication to the tectonic evolution of the South China Sea
	#260	Daechoul Kim	Shallow seismic stratigraphy and geotechnical properties of the eastern boundary of the Korea Strait Shelf Mud, the East Sea
	#261	Sira Tecchiato	Relationship between geomorphology, sediments and habitat distribution: sediment transport dynamics in a shallow coastal environment
	#262	Wen Yan	Provenance Implication of Rare Earth Elements in Surface Sediments from Bays along Guangdong Coast, Southeast China
	#263	Renzo Antonelli	The evaluation problem of flow leakage through abandoned wells in the Venice industrial area
28.2	#264	Hélène Celle-Jeanton	Groundwater origin and pollution sources within Limagne Plain (Massif Central, France)
	#265	Hélène Celle-Jeanton	Assessment of groundwater quality and origin within the alluvial aquifer of the Allier River (Massif Central, France)
	#266	Jia-Jyun Dong	Inherent and stress-induced permeability-anisotropy of fracture rocks near a reverse fault
	#267	Yihui Dong	Geochemistry of sulfur isotopes in high arsenic groundwater near mining area at Hetao plain, Inner Mongolia
	#268	Irina Galitskaya	Study of groundwater chemical and isotopic composition in the vicinity of long-term radioactive waste storage
	#269	Laura Gow	Vegetation dynamics associated with differing hydraulic regimes in a semi-arid, regulated floodplain, Darling River, New South Wales, Australia.

Poster Session - Tuesday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
	#270	Laura Gow	The impact of regulated lake levels on fringing native vegetation: a study of the Menindee-Lakes , western New South Wales, Australia.
	#271	Paul Hedley	The Use of Cl- and δD to Calibrate the Water Budget of Weeli Wolli Creek, Pilbara Region, WA
	#272	Frederic Huneau	Chemical and isotopic recharge conditions of the French Basque Country aquifers
	#273	Zhenjiao Jiang	An analytical method for assessing leakage across a formation interface in a multi-layered aquifer system
	#274	Ken Lawrie	Assessing groundwater–stream interactions for integrated water resource management: A case example of the Ovens River Catchment, Victoria (Australia)
	#275	Pei-Ying Lin	Estimating regional groundwater recharge from fluctuations of groundwater level, oxygen isotope and well yields at a well field near Chien-Shih area, Shinchu, Taiwan
	#276	Teng Ma	Variations of the $\delta^{81}Br$ and $\delta^{37}Cl$ stable isotopic signature for geothermal water in the northern part of the North China plain
	#277	Jelena Parlov	Precipitation impact on the spring recession curve form
	#278	Chengji Shen	Effects of Salinity Variations on Pore-water Flow in Salt Marshes
	#279	Ashok Tejankar	Influence of artificial recharge in hard rock of Deccan Trap area in India.
	#280	Mira Van Der Ley	Hydrogeochemical processes in a monsoon dominated karst environment, NW Queensland
29.1	#281	Patrice De Caritat	Deriving Preliminary Empirical Global Soil reference values from two continental-scale geochemical surveys: PEGS2
	#282	Ning Huang	Experimental investigation into windblown sand transport on barchans in the wind tunnel
	#283	Tom Hubble	Australian riparian trees and river bank failure mitigation
	#284	Karen Kapteinis	Geomorphology and archaeology: Interpreting the Cranbourne Sand, Victoria, Australia
	#285	Fátima Momade	Geomorphology and sedimentology of sand dunes of Maputaland in Mozambique
	#286	Aimin Peng	Application research of Pseudo-Random Sequence (PRS) in Luminescence Dating
	#287	Fang Ren	Study on the geological control factor of the formation of Danxia Landform-A case study of the Longshuashan Geological Park
	#288	Zhirong Yang	The history of a giant Quaternary lake, Lake Agassiz, as deduced from mapping and measuring its beaches by LiDAR imagery
30.1	#289	A-Reum Cha	Debris flow simulation on Umyeon Mountain in Seoul, Korea
	#290	Huai-Houh Hsu	Cliff recession and progressive development of talus deposits around Hungtsaiping rockfall area
	#291	Tom Hubble	Bioengineering and ecoengineering approaches to mitigating landslide hazards
	#292	Soo-Jung Jung	Evaluation of Rainfall Infiltration Characteristics of Soil Slope by Field Monitoring

Poster Session - Tuesday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
	#293	Gihong Kim	Development of Landslide Prediction Model Based on Hazard Database of Gangwon Province in Korea
	#294	Takeshi Kuwano	Hazard evaluation with multivariate statistical analysis for landslide disaster in the Abay Gorge in Ethiopia
	#295	Jeongrim Oh	Slope-failure Disasters & Countermeasures in Korea
	#296	Ayodeji Oluboyo	Evolution and Implications of Cenozoic Mass Transport Deposits offshore Angola
	#297	Fernando Ornelas Marques	Active creep in large-scale slump on Pico Island (Azores)
	#298	Amar Deep Regmi	Landslide susceptibility mapping using bivariate and multivariate statistical analysis in Mugling-Narayanghat road section and its surrounding area, Central Nepal
	#299	Silvio Seno	MIARIA project: from real time landslide monitoring system to dynamic risk assessment (Canaria valley, Switzerland)
	#300	Young-Karb Song	Development of Mobile Investigation System for Steep Slope
	#301	Rongjing Wang	Laboratory model experiment of spoil ground landslides under rainfall in three gorges area highways
	#302	Ya-Jing Yan	Structural strength of loess soils in Lanzhou city, China
30.6	#303	Bob Cechet	Statistical comparison of coincident wind gust measurements in the Australian region obtained from Dines and cup anemometers
	#304	Carlo Doglioni	The brittle-ductile transition as the switch of earthquakes: applications for seismic prediction
	#305	Hugh Glanville	Earthquake and Tsunami monitoring for Australia: the Joint Australian Tsunami Warning Centre
	#306	Alan Jones	The resistivity structures around and beneath the Eyjafjallajokull volcano, Southern Iceland: first insides from electromagnetic investigations
	#307	Tae-Seob Kang	Source parameters of the 1952 near Pyeongyang, North Korean earthquake
	#308	Jinseop Kim	A preliminary study of radon variability in groundwater for earthquake prediction
	#309	Marko Komac	Integrated interferometry and GNSS for precision survey - I2GPS
	#310	Hyomin Lee	Comprehensive radon monitoring in soil for earthquake precursory study
	#311	Li Li	Co-seismic Ground Tilt: a Deformation Model of the Wenchuan Earthquake (May 12, 2008, M8.0)
	#312	Hui Li	Monitoring landslides with multi spatial information techniques: framework and latest advances
	#313	Sandro Moretti	DORIS Downstream Service for landslides and subsidence risk management
	#314	Sandro Moretti	Satellite radar interferometry to urban subsidence detection in the city of Rome (Italy)
	#315	Derek Rust	Monitoring and assessing active structures on El Hierro, western Canary Islands: volcanic edifice stability during the present seismo-volcanic crisis and eruption
	#316	Stéphane Sadiki Ndyabo	Landslides and subsidence assessment in the Kivu (East DR Congo)-Rwanda-Burundi Region

Poster Session - Tuesday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
	#317	Dong-Hoon Sheen	Development of magnitude scaling relationship with P waves for earthquake early warning in South Korea
	#318	Sui Tung	Finite element modelling of post-seismic viscoelastic response of the crust associated with the 2008 M=8.0 Wenchuan Earthquake
	#319	Wanmo Zheng	Comprehensive monitoring and numerical simulation on the dynamic deformation process of Jiaju landslide in Danba, SW China
31.2	#320	Ossi Ikavalko	Engineering geological challenges for underground infrastructure developments in Finland
	#321	Fábio Meaulo	Importance of seasonal variation in the water level in geological-geotechnical studies in the margins of the Madeira River, Brazil.
	#322	Dohyun Park	Structural reliability assessment of lined rock caverns for compressed-air energy storage
	#323	Yuhuan Song	Failure models of slope with soft-hard inter-bedded structure
	#324	Shengrui Su	Numerical Modelling Study on the Evolution of Tectonic Stress Field in the Longmenshan Region
31.5	#325	Robert Goldsmith	Combined geological and seismic studies to improve the model for Afulilo Dam, Samoa
	#326	Naoto Inoue	Three-dimensional subsurface geological flame model of Kansai International airport by integration of borehole data and seismic profiles
	#327	Naoko Kitada	Subsurface Structure Model around KANSAI Airport according to re-interpretation of borehole database and KIX18-1 CORE
32.3	#328	Raquel Barros Binotto	Thermal infrared spectroscopy on volcanic rocks of Paraná Basin (Brazil)
	#329	Fabricio Bau Dalmas	Geotechnologies on the elaboration of predictive model to identify areas susceptibility to erosion and landslide in UGRHI-11, State of São Paulo, Brazil
	#330	Helen Dulfer	Using the new ASTER Geoscience Maps of Australia - a case study in the Flinders Ranges, South Australia
	#331	Jonggyu Han	Airborne LiDAR data applying to Quaternary fault extension in the southeastern part of Korean Peninsula
	#332	Ciro Manzo	0,35 - 2,5 μ m spectral characterization of coastal sediments in central Italy (Sabaudia, Latina).
	#333	Sandro Moretti	Soil properties prediction through hyperspectral imagery
	#334	Sandro Moretti	Detecting and monitoring landslide-induced displacements in Gimigliano (Calabria Region, Italy) by means of TerraSAR-X Persistent Scatterers Interferometry (PSI)
	#335	Anna-Karren Nguno	Mapping of geological lithologies using ASTER and hyperspectral Hymap data in Central-western Namibia
	#336	Takumi Onuma	Application of Satellite Images to Research on Geomorphological Change of Abu Dhabi Coastline
	#337	Natasha Penatti	Indirect detection of sediment granulometry variation in a remote region by the response of MODIS vegetation indices
	#338	Mao Wang	Parallel Processing of InSAR Data for Land Subsidence Monitoring

Poster Session - Tuesday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
	#339	Changchun Zou	Fracture analysis and determination of in-situ stress direction with Imaging Logging and Core Data in Borehole WFSD-2(50~1370m)
33.1	#340	Kathleen Histon	Arthur Humphreys Foord (1844-1933): the story of an eminent palaeontologist without biography
33.6	#341	Leonid Kolbantsev	Geological maps of Russia in the XIX century
	#342	Randall Miller	Geosciences in Canada and the Natural History Society of New Brunswick (1862–1932)
	#343	Patricia Vickers-Rich	The Artist and the Scientists: Imaging the Past
34.2	#344	Tingdong Li	The Cambrian and Ordovician sedimentary environment in the south of Jiangxi and Hunan
	#345	Seung-Ik Park	Origin of an alpine-type serpentinized ultramafic body from the southwestern Korean Peninsula and its tectonic implication
35.1	#346	Laia Alegret	The Global Stratotype Section and Point for the base of the Lutetian Stage: auxiliary sections and correlation in Spain.
	#347	Nicolas Goudemand	Nammal Nala (Salt Range, Pakistan), a potential GSSP candidate for the Induan/Olenekian Boundary (Early Triassic)
	#348	Martin Head	The Chiba section, Central Japan: a potential Lower–Middle Pleistocene GSSP along the west Pacific margin
	#349	Kathleen Histon	Stratigraphic precision and correlation in the digital age: digitization and conservation of GSSPs
	#350	Peter Ilsøe	Goldspiked CityCores from lakes in urban Copenhagen - Solid evidence for 'Anthropocene' as a new GSSP in Geological Stratigraphy.
	#351	James Ogg	Earth history visualization system
	#352	James Ogg	Geologic Time Scale 2012: overview
	#353	Rogério Rocha	Formal proposal for the Toarcian GSSP in the Peniche section (Lusitanian Basin, Portugal)
	#354	Yuri Zakharov	The Permian-Triassic-Boundary (PTB) succession at the Setorym River section, Siberia/Russia: Investigation of the organic carbon ¹³ C-isotope evolution
35.2	#355	Alan Rooney	Re-Os geochronology and Os isotope stratigraphy from the Neoproterozoic Windermere Supergroup: evidence for globally synchronous deglaciation
36.7	#356	Ivan Alferov	Micro Components in the Oil of the Oil Deposits of Western Part of Orenburg Region
	#357	Junping Cui	Study of the relations between geothermal history and oil-gas generation in Beier depression, Hailar basin
	#358	Takashi Danjo	Properties of beachrocks in Okinawa and Ishikawa, Japan
	#359	Inna Derbeko	Volcanism on the edge of the Mongol-Okhotsk belt and Okhotsk sea plat
	#360	Kulyash Dyussembayeva	Unusual forms of micro- and nanogold from the oxidation zone of the deposits of Novodneprovskoe and Ravninnoe (North Kazakhstan)
	#361	Paul Edwards	The role of pre-existing fractures and their implications in fluid flow and the development of tectonic structures: A case study from sedimentary rocks in West Goseung, S.E. Korea.
	#362	Tailiang Fan	Paleogeographic framework and distribution of source rocks in the Lower Paleozoic of the Tarim Basin, NW China

Poster Session - Tuesday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
	#363	Guoli Hao	The study of oil sand reservoir heterogeneity and the prediction of hydrocarbon migration channels
	#364	Aleksandra Kozłowska	The Middle Jurassic siderites from Czeszochowa-Wielun area, southern Poland
	#365	Airong Li	Occurrence of interface fractures in Yanchang Formation, the east of Ordos Basin and its significance in petroleum development
	#366	Chiyang Liu	Organic-inorganic interactions in the accumulation and formation of multiple energy minerals coexisting in the same sedimentary basins
	#367	Oleg Prischepa	Play and prospect evaluation of the Timan-Pechora Basin, Russia
	#368	Kirill Staroseltsev	Evolution of paleosea reliefs in Siberia, as the determining factor in the formation of Jurassic landscapes with high primary bioproductivity or increased hydrodynamics of benthonic waters
	#369	Caifu Xiang	Transient fluid flow along the faults revealed by apatite fission track thermochronology and vitrinite reflectance: Example from the Tazhong Uplift Zone in the Tarim Basin, Northwest China

Wednesday Program

WEDNESDAY 8 AUGUST 0830 - 1045

1.3 - Session 1 - Geoscience outreach (public communication, museums, media): Experiences 0830 - 1045

Arbour Meeting Room 2

Time		
0830	#1965	The Importance of Public Exhibitions in Geosciences Education Patricia Vickers-Rich
0845	#1966	A.E. Fersman Mineralogical Museum: past, present and future Viktor Garanin
0900	#1967	Communicating science to the New Zealand public: the GNS Science - Te Papa experience Hamish Campbell
0915	#1968	Exploring Key Features of Scaffolding for Visitors; Science Learning in Science and Natural History Museums Eun Ji Park
0930	#1969	Science Explorer's Club on Indian Reservations in San Diego County, California Eleanora Robbins
0945	#1970	The landscape approach in Earth Sciences divulgation: the GeoloGiro Francesca Luger
1000	#1971	How does geology work: geological exhibitions in museums, information centres and scientific institutions of Lithuania for public outreach and education Grazina Skridlaite
1015	#1972	Shaping a nation: a geology of Australia Richard Blewett
1030	#1973	Popularizing Drilling Technology Education & Promoting Geological Research Xiaoxi Zhang

2.4 - Session 1 - Geoethics

0830 - 1030

Hospitality Room 2

Time		
0830	#1974	<i>Review of actual problems of the further development of geoethics</i> Vaclav Nemec (Keynote)
0900	#1975	<i>Geoethics in Spain: a potential model for deontological links, new applications in Earth and Space Sciences and network-based geoeducation and public outreach</i> Jesus Martinez-Frias (Keynote)
0930	#1976	<i>Necessity of developing ethical way of thinking as the presumption of professionalism</i> Lidmila Nemcova (Keynote)
1000	#1977	<i>Socio-cultural role of the geoscientists and their ethical responsibility</i> Silvia Peppoloni (Keynote)

3.5 - Session 1 - The silent majority: Cenozoic (Paleocene-Pliocene) records of climatic warmth 0830 - 1030

Boulevard Meeting Room 1

0830	#1978	Earth's temperature on geological time scales Peter Barrett
0845	#1979	Palaeoclimate of the mid-Cretaceous Winton Formation, central-western Queensland, Australia: New observations based on Leaf Margin Analysis, CLAMP, Bioclimatic Analysis and fossil wood growth indices Tamara Fletcher
0900	#1980	<i>Up in smoke: Organic carbon feedbacks and Paleogene hyperthermals</i> Gabriel Bowen (Keynote)
0930	#1981	Effect of Cenozoic tectonic evolution on global ocean Willem Sijp

WEDNESDAY 8 AUGUST 0830 - 1045 continued

0945	#1982	Estimate of climate sensitivity from coral records in the vicinity of the Eocene-Oligocene cooling Michael Asten
1000	#1983	Early Eocene landscape change from high-resolution pollen analysis of sediments from the Falkland locality, Okanagan Highlands, British Columbia, Canada Patrick Moss
1015	#1984	Early-Middle Hyperthermals from the Tethyan Possagno section, Southern Alps, Italy Domenico Rio

4.2 - Session 1 - Global geochemical mapping: understanding chemical Earth (The 2nd Arthur Darnley Symposium) 0830 - 1030 Arbour Meeting Room 1

Time		
0830	#1985	A world geochemical map: understanding chemical Earth Xueqiu Wang
0845	#1986	The National Geochemical Survey of Australia: overview and results to date Michelle Cooper
0900	#1987	Global geochemical baseline mapping for environmental management using top soil in India: An Overview Pradip Kumar Govil
0915	#1988	The soil geochemical atlas of Cyprus - advantages of a high density regional survey David Cohen
0930	#1989	A nationwide marine geochemical mapping project in Japan Atsuyuki Ohta
0945	#1990	Assessment of environment pollution with toxic chemical elements, using multipurpose geochemical mapping (MPGM) Arkady Golovin

5.2 - Session 1 - Information management – interoperability and standards: Standards 0830 - 1030 Boulevard Meeting Room 3

Time		
0830	#1991	GeoSciML v3.0 - a significant upgrade of the CGI-IUGS geoscience data model Ollie Raymond
0845	#1992	EarthResourceML v2.0 - an upgrade of the CGI-IUGS earth resource data model due to INSPIRE Data specification Jouni I Vuollo
0900	#1993	The use of the standard exchange EarthResourceML in the ProMine project Daniel Cassard
0915	#1994	OzSoilML: Towards an international exchange standard for soil data Bruce Simons
0930	#1995	Spatial data infrastructure reference model, metadata and data specifications Kwame Boamah
0945	#1996	CoalLog - Borehole Data Standard for the Australian Coal Industry Brett Larkin
1000	#1997	<i>Through the Looking-Glass of Standardization: The Miraculous World of Coverages</i> Peter Baumann (Keynote)

WEDNESDAY 8 AUGUST 0830 - 1045 continued

5.6 - Session 6 - Success stories in geocomplexity: Non-linear processes, networks and patterns in geosciences
0830 - 1030
Plaza Auditorium

Time		
0830	#1998	New Parameters and Multifractal Techniques for General Purpose Geological Studies Qiuming Cheng
0845	#1999	Models of the mathematical morphology of landscape for risk assessment of linear constructions damage. Case study of thermokarst process Alexey Victorov
0900	#2000	The Key Technology Research of deep three dimension prognosis by primary halos Ke Guo
0915	#2001	Orientation uncertainty: Curse or blessing? Raymond Munier
0930	#2002	<i>Frontiers in Fractals</i> Thomas Blenkinsop (Keynote)
1000	#2003	Application of portable X-ray fluorescence analysis for element distribution characteristics research of contact metasomatism skarn Zhaoxian Yuan
1015	#2004	Modelling Oscillatory Zoning of Plagioclase by Cellular-Automata for Calculating the Crustal Magma Residence Time Ling Zeng

6.2 - Session 1 - Geothermal resources: Enhanced Geothermal Systems Sponsored by CO2 CRC
0830 - 1030
Mezzanine Room 1

Time		
0830	#2005	Analysis of Stress, Fractures, and Dilation Potential as a Geomechanical framework for creating an Engineered Geothermal System in the West Flank of the Newberry Volcano, Oregon, USA Nicholas Davatzes
0845	#2006	Fluid geochemistry and rock mineral on EGS system Norio Yanagisawa
0900	#2007	<i>The Paralana Engineered Geothermal Project - Results of the hydraulic fracture stimulation</i> Peter Reid (Keynote)
0930	#2008	On effective permeability of fractures with permeable walls Rosemarie Mohais
0945	#2009	<i>Enhanced Geothermal Systems (EGS) development - 10 years experience in the Innaminka Granite, Australia</i> Doone Wyborn (Keynote)

7.1 - Session 1 - New age metals: the geology and genesis of ores required for a changing economy and a carbon constrained world [Society for Geology Applied to Mineral Deposits (SGA)]: Rare-earth and related elements
0830 - 1030
Mezzanine Room 2

Time		
0830	#2010	Geology and economic significance of current and future rare earth element sources George J. Simandl
0900	#2011	REE Resources and Concentration Techniques Jason Yang

WEDNESDAY 8 AUGUST 0830 - 1045 continued

0915	#2012	<i>Rare Earths and Other Critical Elements: A U.S. Perspective on Raw-Material Availability and Public Policies</i> Roderick Eggert (Keynote)
0945	#2013	Major rare-earth-element mineral systems in Australia Subhash Jaireth
1000	#2014	The Toongi rare metal and rare earth deposit, NSW Ian Chalmers (Invited)
1015	#2015	Hydrothermal REE-mineralisation and C-O stable isotope geochemistry of the Cummins Range Carbonatite Complex, Kimberley region, Western Australia Peter Downes

8.3 - Session 1 - Probing the Earth from near-surface to the mantle - techniques, modelling software and case histories to aid mineral exploration: Seismic and MT 0830 - 1045 Great Hall 3

Time		
0830	#2016	<i>The Evolution of Minerals Exploration over 60 years and the Imperative to Explore Undercover</i> Ken Witherly (Keynote)
0900	#2017	Geoscience Australia's national deep crustal seismic reflection surveys from 2006 to 2011 Ross Costelloe
0915	#2018	Seismic methods for hard rock mineral exploration Ned Stolz
0930	#2019	Using simple seismic methods to provide insight into relatively unexplored areas Samantha Sponza
0945	#2020	Application of reflection seismic to mineral exploration, world-class Century Zn-Pb-Ag deposit, northwest Queensland, Australia Vladimir David
1000	#2021	Study on shallow oil shale exploration using Time-domain Seismic Beam-forming method Tao Jiang
1015	#2022	3D structure of Flinders Ranges from Local Earthquake Tomography Simone Pilia
1030	#2023	Geoscience Australia's recent magnetotelluric surveys along national deep seismic reflection transects Jingming Duan

9.1 - Session 1 - Orogen to district-scale structural and tectonic controls on porphyry and epithermal deposits 0830 - 1045 Great Hall 4

Time		
0830	#2024	<i>Structural Controls on Giant Porphyry Cu Systems in the Chilean Andes</i> Ken McClay (Keynote)
0900	#2025	Arc Magma REE-silica; a proxy for subduction dynamics and porphyry copper fertility at terrane scales Timothy (Tim) Ireland
0915	#2026	Imaging deep structure and dynamic processes of a world-class metallogenic belt with passive and active seismic methods Qingtian Lu
0930	#2027	<i>The formation and preservation of ancient giant porphyry Au-Cu deposits</i> Andrew Wurst (Keynote)

WEDNESDAY 8 AUGUST 0830 - 1045 continued

1000	#2028	Porphyry mineralisation in a Cambrian-Ordovician marginal basin near the palaeo-Pacific east Gondwana margin in Australia Cam Quinn
1015	#2029	Structural controls on the formation of the Cadia East porphyry Au-Cu deposit, NSW, Australia Nathan Fox (Invited)
1030	#2030	Woodlark Island, Papua New Guinea: an emerging gold province Ian Graham
9.8 - Session 1 - Regional metallogeny and related aspects 0830 - 1030 Plaza Meeting Room 2		
0830	#2031	The Trans-Brasilian Belt Inflexion and the Relations with Polimetallic Mineralization in Eastern of Mato Grosso State, Brazil: Western Gondwana Evolution Cesar Martinelli
0845	#2032	Why Australia has so much uranium: metallogeny, exploration and mineral potential of uranium mineral systems Subhash Jaireth
0900	#2033	Uranium metallogenic regionalization and resource potential in China Ziying Li
0915	#2034	Uranium Mineralization of the Ogchon Belt Christopher Sennitt
0930	#2035	The Unicorn Climax-type Mo porphyry: exploration in a newly discovered Australian Mo province and Urad-Henderson analogy Bernhard Hochwimmer
0945	#2036	Studying the gold placer forming dynamics as a base for their detailed scientific classification and practical increment of exogenous gold reserves (as exemplified by North-East Asia) Yuriy Goldfarb
1000	#2037	Geology, mineralization and exploration of the Jiama large scale Cu-Mo deposit in Tibet, China Juxing Tang
1015	#2038	A 3D geological, geochemical and geophysical evaluation of the Iron Glen polymetallic magnetite skarn, North Queensland Simon Beams
11.4 - Session 1 - Petroleum reservoir modelling, seals and enhanced oil recovery: Carbonates, Cores, Petrophysics, and Reservoir Characterization 0830 - 1030 Mezzanine Room 3		
Time		
0830	#2039	Characterization and 3D modeling of Albian carbonate reservoirs from deepwater Campos Basin, Brazil: an integrated study Claudio Roisenberg (Invited)
0845	#2040	Multiple-scale stratigraphic analysis of stromatolite-rich deposits from the Maastrichtian/Paleocene Salta Basin, Argentina: characterization of outcropping analogues to support the reservoir modeling of giant Pre-Salt oilfields from offshore Brazil Ricardo Lykawka (Invited)
0900	#2041	A Giant within a Giant: Depositional Model of the Arab-D Reservoir in Khurais Field, Saudi Arabia Saad AlAwwad
0915	#2042	Extracting knowledge and value from core Robert Seggie

WEDNESDAY 8 AUGUST 0830 - 1045 continued

0930	#2043	Digital rocks - petrophysical analysis of clastic reservoirs Jadwiga Jarzyna
0945	#2044	Multiphysics for reservoir properties and fluid saturations Michael Clennell
1000	#2045	The Fine Characterization and Evaluation of Low-permeability Sandstone Reservoirs Lijun Wang

12.1 - Session 4 - Coal seam gas *Sponsored by QGC*

0830 - 1030

Mezzanine Room 4

Time		
0830	#2046	Water management in coal seam gas: use, misuse and comprehension of science in the past, present and future Chris Moran
0845	#2047	Microbially Enhanced Coal Seam Methane (MECSM): Learnings from a coal-degrading, methanogenic consortium that degrades brown coal to methane. Nai Tran-Dinh
0900	#2048	Basement structural influence on coal permeability in southeast Queensland. Samuel Brooke-Barnett
0915	#2049	A link between seismic attributes and fluid content in coal seams Mark Lwin
0930	#2050	Coupled fluid flow-geomechanical modelling for the study of coal seam gas production Reem Freij-Ayoub
0945	#2051	CBM Development in Gob Areas in China Yuewen Xi

13.2 - Session 4 - Carbonate Coastal and Shallow Marine Systems (1)

0830 - 1030

Boulevard Room

Time		
0830	#2052	Four systems tract-based sequence stratigraphy in the Aptian of the Maestrat Basin (E Iberia) Telm Bover-Arnal
0845	#2053	Origin of fluvial-continental shelf-submarine canyon integrated system associated to Japaratuba River, Sergipe, Brazil Luiz Carlos Silveira Fontes
0900	#2054	Sedimentary characterization and reservoir distribution of the Gobernador Formation (middle Eocene), northeast region of the Barinas traditional area, Barinas basin, Venezuela. Meylin Herrera
0915	#2055	Neritic Oligocene-Miocene limestones on an isolated carbonate platform: interplay of sediment production and sea-level changes Werner Piller
0930	#2056	Carbonate aeolianites from a distally steepened ramp-like shelf setting: the Quaternary of southwest Western Australia Diane Jorgensen
0945	#2057	Mineralogy and diagenesis of the Coniancian-Santonian ooidal ironstones of Aswan area, South Egypt Walid Salama
1000	#2058	The drowning of an Aptian carbonate platform predating the OAE 1a: Stratigraphy and geochemistry (Prebetic zone, southern Spain) Pedro Alejandro Ruiz-Ortiz

WEDNESDAY 8 AUGUST 0830 - 1045 continued

14.2 - Session 4 - Convergent margin sedimentary basins: Indian Subcontinent and China

0830 - 1030

Plaza Meeting Room 6

Time		
0830	#2059	Analogue and seismic modelling of the Kuche fold and thrust belt (North Tarim, China) Jean-Paul Callot
0845	#2060	Structural evolution of fold-and-thrust belts generated by multiple de'collements in the Southern margin of Junggar Basin Yu Fusheng
0900	#2061	Magneto-chronology, Detrital Apatite Fission Track (AFT) and Tectonic Evolution of Mesozoic Strata at the Northern Margin of Sichuan Basin, Southwest China Dengfa He
0915	#2062	Detrital Zircon Record of Cretaceous Sedimentary Basins on the Jiamusi Block and Sikhote-Alin Accretionary Complex, NE China Mingdao SUN (Invited)
0930	#2063	Tectonic implications of crustal shortening across the Indo Myanmar Ranges of Northeast India Ibotombi Soibam
0945	#2064	Provenance of siliciclastic rocks of Andaman accretionary prism: Implications from Sr-Nd isotopic ratio variations Neeraj Awasthi

15.4 - Session 2 - Linking deep earth to plate tectonic and surface processes

0830 - 1030

Plaza Meeting Room 7

Time		
0830	#2065	<i>Interpreting sea level and stratigraphic records over long time-scales on a dynamic Earth</i> Michael Gurnis (Keynote)
0900	#2066	<i>Tethyan dynamic topography over the past 300Ma</i> Huw Davies (Keynote)
0930	#2067	The scale and time dependence of surface dynamic topography driven by mantle processes over the last 150 million years in the Atlantic and Indian oceans and margins Dietmar Muller
0945	#2068	The whole earth effects of pangea assembly and dispersal Adrian Lenardic
1000	#2069	Earth's evolving supercontinent cycle: A planetary driver of environmental change Martin Van Kranendonk
1015	#2070	The aggregation and dispersion of the supercontinents induced by large-scale mantle convection Yadan Mao

15.5 - Session 1 - The Formation of Accretionary Orogens

0830 - 1030

Great Hall 1&2

Time		
0830	#2071	<i>Assembly of the Mesozoic accretionary orogen of Zealandia</i> Nick Mortimer (Keynote)
0900	#2072	<i>SE Asian accretionary orogen: The story from the Philippines</i> Graciano Yumul Jr. (Keynote)
0930	#2073	Refining the collision boundary in Mindoro, Philippines: Thermochronological results and Geochemical data Monika Walia

WEDNESDAY 8 AUGUST 0830 - 1045 continued

0945	#2074	<i>Arcs, ophiolites, basins and continental fragments: the assembly of the SE Asian continental crust</i> Ian Metcalfe (Keynote)
1015	#2075	Jurassic accretionary wedge in Duolong district, a new evidence for arc-type porphyry copper deposit, in Bangonghu-Nujiang suture Tibet Guangming Li
16.5 - Session 1 - Lithosphere structure from ambient noise and other seismology 0830 - 1030 Plaza Meeting Room 5		
Time		
0830	#2076	<i>Unveiling the Australian Lithosphere: the AUSREM project</i> Brian Kennett (Keynote)
0900	#2077	Ambient noise tomography in southeast Australia from the WOMBAT transportable seismic array Nicholas Rawlinson (Invited)
0915	#2078	The structure of the crust and uppermost mantle in China from ambient noise tomography Yingjie Yang
0930	#2079	Stratification of seismic anisotropy beneath Hudson Bay from combined analysis of surface-wave and ambient-noise tomography David Eaton (Invited)
0945	#2080	3-D shear velocity structure of Costa Rica and Nicaragua from teleseismic and ambient noise Rayleigh wave tomography Nicholas Harmon (Invited)
1000	#2081	High-resolution seismic array imaging based on numerical simulations Qinya Liu
17.3 - Session 1 - The habitats and paleobiology of early life on Earth, and the rise of oxygen 0830 - 1030 Mezzanine Room 8		
Time		
0830	#2082	Archean 'Whiffs' of Oxygen are most likely Metamorphic Artifacts Joseph Kirschvink
0845	#2083	Reconstructed of mesoarchean oceanic sedimentary environments: result of DXCL drillings Shoichi Kiyokawa Shoichi
0900	#2084	Elemental cycling of C, N, P, S, Fe, and Mo and origin of organic matter in the 3.2 Ga old black shales recovered by DXCL-DP in Pilbara, Western Australia Kosei Yamaguchi
0915	#2085	Surface markings produced by stranded organic seafoam rafts derived from kelp mucilage and phytoplankton exudates: a new physical biomarker for the early Earth and Mars? Sharad Master
0930	#2086	A record of life in changing Neoproterozoic environments of the Fortescue Group, Pilbara region, Western Australia David Flannery
0945	#2087	Investigating the syngeneity and paleobiology of hydrocarbon biomarkers in the Fortescue Group at 2.7-2.8 Ga Yosuke Hoshino

WEDNESDAY 8 AUGUST 0830 - 1045 continued

17.4 - Session 1 - Early Earth geodynamics and evolution – uncovering links between changing early Earth and biological diversification

0830 - 1030

Boulevard Meeting Room 2

Time		
0830	#2088	Plate tectonics: A phase a planet goes through? Craig O'Neill
0845	#2089	Zircon U-Pb dating of the Cleaverville Formation, Pilbara, Australia Yuhei Aihara
0900	#2090	The first multiple sulphur isotope evidence for a 2.9 Ga Mesoarchean sulphate reservoir linked to a major volcanic event Mark Barley
0915	#2091	Deformation history in the Geita Greenstone Belt, Tanzania Ioan Sanislav
0930	#2092	New Age Data for the Ventersdorp Supergroup, Kaapvaal Craton and correlation to the Fortescue Group, Pilbara Craton Wladyslaw Altermann
0945	#2093	<i>Continental growth, continental rise and the oxygenation of the Earth atmosphere</i> Patrice Rey (Keynote)
1015	#2094	Did the amalgamation of the supercontinent Nunavutia cause the Great Oxidation Event? Ian Campbell

18.3 - Session 1 - Supercontinent cycles, processes and Proterozoic supercontinents

0830 - 1030

Plaza Meeting Room 8

Time		
0830	#2095	Coupled supercontinent-superplume cycles and the geodynamic driving force: an overview Zheng-Xiang Li
0845	#2096	Pangea assembly and breakup control long-wavelength mantle structure evolution Shijie Zhong (Invited)
0900	#2097	<i>Visualising Nuna: a palaeogeographic and database-driven perspective on Palaeoproterozoic supercontinent development</i> Bruce Eglinton (Keynote)
0930	#2098	<i>Pre-Rodinia supercontinent Nuna shaping up: A global synthesis with new paleomagnetic results from North China</i> Shihong Zhang (Keynote)
1000	#2099	<i>Using the Large Igneous Province (LIP) record to reconstruct Proterozoic supercontinents: Recent insights from the LIPs - Supercontinent Reconstruction Consortium Project</i> Richard Ernst (Keynote)

21.5 - Session 1 - Intraplate magmatism, including ocean island basalts, continental basalt provinces, kimberlites and lamproites

0830 - 1030

Plaza Meeting Room 9

Time		
0830	#2100	Pliocene alkaline volcanic rocks from Christmas Island, NE Indian Ocean - decompression melting in response to plate flexure Trevor Falloon
0845	#2101	New mantle source model of CAMP tholeiites from northeast America from Sr-Nd-Pb-Os isotopes Renaud Merle

WEDNESDAY 8 AUGUST 0830 - 1045 continued

0900	#2102	Pervasive Paleogene submarine volcanism in Zealandia: nature and significance Alexander Malahoff
0915	#2103	Geochronological and geochemical constraints on the origin of the intraplate alkaline volcanism of Fernando de Noronha, equatorial Atlantic Ocean Gabriela Perlingeiro
0930	#2104	The Cameroon Line magmatism (central Africa): An example of non-hotspot linear magmatic province. Emmanuel Njonfang
0945	#2105	A special type of deep-water intraplate magmatism Tatyana Lygina
1000	#2106	<i>On the Limited Motion of the Louisville Mantle Plume</i> Anthony Koppers (Keynote)

22.5 - Session 1 - Equilibria modelling of anatectic rocks

0830 - 1030

Plaza Meeting Room 10

Time		
0830	#2107	RINGWOOD MEDAL ADDRESS <i>On calculating phase equilibria for metamorphic systems</i> Roger Powell (Keynote)
0900	#2108	Igneous and metamorphic garnet-clinopyroxene assemblages in eclogite and granulite, Breaksea Orthogneiss, New Zealand: major and rare earth element characteristics Geoffrey Clarke
0915	#2109	Hornblende chemistry in meta- and diatexites and its retention in the source: an example from the Karakoram, NW India Henning Reichardt
0930	#2110	<i>Phase equilibria modelling of anatectic rocks: remarks on challenges posed by and solutions derived for UHT granulites from the Eastern Ghats Province, India</i> Fawna Korhonen (Keynote)

23.5 - Session 1 - Mesozoic Bioevents

0830 - 1030

Qld Museum Theatre

Time		
0830	#2111	<i>Correlation of Late Triassic terrestrial strata and the early evolution of dinosaurs: implications from high-precision U-Pb zircon geochronology of the Chinle Formation, Southwest United States</i> Jahandar Ramezani (Keynote)
0900	#2112	The origin of the Mesozoic Marine Revolution in Norian (Late Triassic) Tethys: Correlating prey dynamics with predator radiations Lydia Tackett
0915	#2113	The Middle Triassic Luoping Biotai $\frac{1}{2}$ ï $\frac{1}{2}$ A taphonomic window on recovery and radiation of marine ecosystems after the end-Permian mass extinction Shixue Hu
0930	#2114	The Talbragar Fossil Fish bed of New South Wales - a world-class high-latitude Late Jurassic lagerstätte Stephen McLoughlin

24.1 - Session 1 - Reefs and Carbonates – secular changes including climate

0830 - 1030

Mezzanine Room 6

Time		
0830	#2115	Sedimentological and geochemical record of environmental changes in Late Devonian carbonate platforms, Canning Basin, northwestern Australia Annette George

WEDNESDAY 8 AUGUST 0830 - 1045 continued

0845	#2116	A catastrophic backreef infilling of a Holocene reef, Paraoir, western Luzon, Philippine Shou-Yeh Gong
0900	#2117	Life and Death of Holocene Coral Reefs in Moreton Bay, Queensland, Australia Luke Nothdurft
0915	#2118	Reef response to sea-level and environmental changes during the last deglaciation. IODP Expedition 310 « Tahiti Sea Level ». Gilbert Camoin
0930	#2119	Microatolls and the record of Holocene sea level that can be derived from them Colin Woodroffe
0945	#2120	The other reefs: cool-temperate macroalgal reefs and carbonates off southern Victoria, Australia Noel James
1000	#2121	Ocean temperatures over geologic time Ján Veizer
1015	#2122	Environmental information recorded in the trace element geochemistry in the shell of the Sydney Rock Oyster (<i>Saccostrea glomerata</i>) Sarah Tynan

25.4 - Session 1 - Source to sink sediment pathways and the evolution of continental margins

0830 - 1030

GeoExpo Hospitality Room 1

Time		
0830	#2123	<i>Character, variability and preservation of shelf event strata: insights from river-dispersal systems</i> J.P. Walsh (Keynote)
0900	#2124	Observations of Event-Based Sediment Transport on the Waipaoa Margin, NZ Richard Hale
0915	#2125	PRESENTATION CANCELLED
0930	#2126	Trawling-induced sediment resuspension in a submarine canyon flank Pere Puig
0945	#2127	Sedimentary and geochemical characterization of intertidal sediments in Moreton Bay, Australia Guia Morelli
1000	#2128	Bulk Characterization of Sediment Trap Particles in Southeastern Brazilian Shelf Ana Luiza Albuquerque

28.3 - Session 2 - Geoscientific mapping, characterisation and conceptualisation of hydrogeological systems

0830 - 1030

Plaza Terrace Room

Time		
0830	#2129	An integrated systems approach to identifying and assessing managed aquifer recharge options in the Darling Floodplain, N.S.W., Australia Ken Lawrie
0845	#2130	Constraining 3D models of surface-groundwater interaction using OSL and radiocarbon chronology to date Quaternary fluvial sediments in the Lower Darling Valley, near Menindee, NSW. John Magee (Invited)
0900	#2131	Utilization of new geophysical, geospatial, drilling and geochronological datasets to map and resolve Quaternary fluvial stratigraphy and landscape evolution and constrain hydrogeological processes in the Lower Darling Valley, NSW, Australia. John Magee

WEDNESDAY 8 AUGUST 0830 - 1045 continued

0915	#2132	Mapping shallow aquitards using a multi-scale geophysical and hydrogeological approach: the Pleistocene Blanchetown Clay, Darling Floodplain, western NSW, Australia. David Gibson (Invited)
0930	#2133	Using airborne electromagnetics and digital elevations models, validated by drilling data, to map neotectonic features and seismic hazard potential in buried floodplain landscapes of the Darling floodplain, western NSW, Australia David Gibson
0945	#2134	Mapping potential groundwater recharge and flow pathways in the Darling Floodplain by integrating 3D hydrogeophysical and geomorphic maps with hydrodynamic and hydrogeochemical data. Laura Gow
1000	#2135	Multi-disciplinary, multi-scale approach to mapping and assessing Pliocene aquifers in the Darling Floodplain, N.S.W., Australia Jonathan Clarke (Invited)
1015	#2136	The use of high resolution multibeam sonar to map potential leakage zones and recharge pathways in the Darling River, western New South Wales, Australia Jonathan Clarke

29.4 - Session 2 - Deep weathering through deep time: regolith processes and ore deposits 0830 - 1030

Plaza Meeting Room 3

Time		
0830	#2137	The formation of iron pisoliths in the Tertiary paleochannels of Western Australia Robert Thorne
0845	#2138	Ferricretes in New Caledonia: synthesis of age constraints by paleomagnetic and radiometric techniques. Implication on the morphogenesis of 'Grande Terre' Caroline Ricordel-Prognon
0900	#2139	Formation of ore-grade ferruginous pisolitic ('laterite') gold deposits in Western Australia: new insights into mechanisms of anomaly formation Ravi Anand
0915	#2140	Oxygen-isotope dating the Yilgarn regolith Allan Chivas
0930	#2141	Age estimation of clay-poor saprolite: examples from Northern Norway Marco Brönnner
0945	#2142	Fast evolving conduits in clay-bonded sandstone: Characterization, erosion processes and significance for origin of sandstone landforms Jiri Bruthans

30.2 - Session 1 - Natural hazards and climate change 0830 - 1030

Sky Room

Time		
0830	#2143	<i>Are we learning to adapt to climate impacts?</i> Andrew Ash (Keynote)
0900	#2144	Trade-offs and synergies for regional scale adaptation options Ryan McAllister
0915	#2145	Coastal inundation loss estimation for South East Queensland Chi-Hsiang Wang
0930	#2146	Costs and Benefits of Adaptation to Coastal Inundation to Protect Appreciating Assets Ryan McAllister (Invited)
0945	#2147	Economic Implications of Deferring Climate Adaptations of Australian Housing for Extreme Wind Events Xiaoming Wang

WEDNESDAY 8 AUGUST 0830 - 1045 continued

1000	#2148	Adapting the Whole: A cross sectoral human settlement response to climate change impacts Darryl Low Choy
30.4 - Session 1 - Geohazards in subduction zones 0830 - 1045 Meeting Room S1		
Time		
0830	#2149	<i>An attempt before 2011 to estimate outsized earthquakes along the Japan Trench</i> Yuki Sawai (Keynote)
0900	#2150	Tsunami recurrence from Holocene deposits on Ishigaki island along the Ryukyu subduction zone Masataka Ando
0915	#2151	A record and analysis of earthquakes and tsunamis affecting the NE Indian Ocean region Edris Alam
0930	#2152	Assessment of tsunami hazard and planning the mitigation strategy for the Far East coast of Russia Viacheslav Gusiakov
0945	#2153	An observation on the main factors for the high fatalities by the 2011 Tohoku Earthquake, Japan Mizuho Ishida
1000	#2154	Depth-dependent characteristics of simulated slow slip events Harmony Colella
1015	#2155	Assessing sensitivity of Probabilistic Seismic Hazard Analysis (PSHA) to fault slip-rates: Sumatra case study Amalfi Omang
1030	#2156	Earthquake Hazard Map of North Maluku Cecep Sulaeman
31.3 - Session 1 - Engineering Geology In Mining: Coal Mining, Quarries & Copper Porphyry 0830 - 1030 Plaza Meeting Room 4		
Time		
0830	#2157	Creep in Latrobe Valley brown coals Boyd Dent
0845	#2158	Review of consolidation behaviour of Latrobe Valley brown coal Fatemeh Moein
0900	#2159	Geotechnical Parameters Relevant to Settlement of Coal Mine David Williams (Invited)
0915	#2160	Geological structural controls on stability of footwall slopes, an example from the Bowen Basin, Queensland Dane Pope
0930	#2161	The implications of complex basement margin structure for pit wall design at Clermont Coal Mine, Central Queensland, Australia Rachel Arnold
0945	#2162	Using the Slim Borehole Scanner to assess immediate roof conditions in underground coal mines in Australia Uwe Leube
1000	#2163	Whitehall Quarry, Northern Wedge Failure: 22 years of investigation Daniel Strang
1015	#2164	Development of an engineering geology model in the fractured and brecciated rocks of a large scale copper porphyry deposit Ralph Cammack

WEDNESDAY 8 AUGUST 0830 - 1045 continued

32.1 - Session 1 - Remote Sensing for Mineral Exploration

0830 - 1030

F1 - Training Room

Time		
0830	#2165	<i>The Significance of Remote Sensing Imagery in Targeting Fieldwork for Mineral Exploration</i> Sandra Perry (Keynote)
0900	#2166	Analysis of large-area imaging spectrometer data coverage for natural resource characterization and mineral exploration in Afghanistan Raymond Kokaly
0915	#2167	Successfully Targeting Mineral Deposits in Weathered Terrain By Combining Mineralogical Deposit Models with HyMap Derived Mineral Maps. Michael Hussey
0930	#2168	Airborne hyperspectral mapping of the regolith of New Caledonia Florian De Boissieu
0945	#2169	Targeting exploration drilling using airborne hyperspectral imagery over the Shadan porphyry copper-gold deposit, Iran Saeid Asadzadeh
1000	#2170	Cu-Au Exploration Target Definition Using ASTER Imagery in the Carajás Mineral Province, Brazilian Amazon José Carlos Sícoli Seoane
1015	#2171	Complex analysis of Remote Sensing data for reveal perspective ore areas in Central Kyzylkum (Western Uzbekistan) Alimbay Avezov

35.3 - Session 1 - International Subcommittee on Cambrian stratigraphy: Cambrian chronostratigraphy and evolution and diversification of early Cambrian life

0830 - 1030

Mezzanine Room 9

Time		
0830	#2172	The Cambrian GSSP: Strengths, Weaknesses and a Proposed Modification of its Definition Loren Babcock
0845	#2173	Evolution of early euconodont and implications for upper Cambrian biostratigraphic correlations. Gabriella Bagnoli
0900	#2174	Dimorphism and ontogeny of <i>Isoxys auritus</i> (Arthropoda) from the Early Cambrian Chengjiang biota, South China Dongjing Fu
0915	#2175	The Cambrian Series 2, Stage 4, Emu Bay Shale Konservat-Lagerstätte, Kangaroo Island, South Australia: Geology, depositional environment and biota Jim Jago
0930	#2176	Lower Cambrian sequence stratigraphy in Scandinavia Arne Thorshøj Nielsen
0945	#2177	New evidence of the Eocaledonian Sardinian Phase in the pre-Variscan sequences of SW Sardinia Mariano Puxeddu
1000	#2178	The chronostratigraphical subdivision of the traditional "Lower Cambrian" Michael Steiner

WEDNESDAY 8 AUGUST 0830 - 1045 continued

36.1 – Session 1 - Environmental change and ancient societies: Focus on Pacific and the Americas

0830 – 1030

Boulevard Auditorium

0830	#2179	The "unsettlement" of the Pacific - revealing the catastrophic milestones of prehistoric Polynesia James Goff
0845	#2180	Linking geological evidence of past tsunamis and volcanic eruptions with oral traditions of natural disasters from the Bismarck Sea region, Papua New Guinea Simon Day
0900	#2181	The revenge of Roraimenu: why and how the island of Teonimenu abruptly disappeared about 300 years ago in central Solomon Islands (Southwest Pacific) Tony Heorake
0915	#2182	From legends to observations: geological inferences about vanished islands in Fiji (Southwest Pacific Ocean) Shaiza Janif
0930	#2183	Sea-level fall implicated in profound cultural transformation around 2500 cal BP in the western Pacific Patrick Nunn
0945	#2184	Volcanism and the Rise and Fall of a Maya Metropolis Kenneth Tankersley
1000	#2185	Recognizing Quaternary Period impacts by asteroids and comets and understanding their human population-level effects W. Bruce Masse
1015	#2186	The 1 : 2 500 000 International Quaternary Map of Europe (IQUAME): Transformation from a paper Map to an up-to-date, modern Geological Information System Kristine Asch
1030 - 1100		BREAK
1100 - 1200		Plenary Session 3: The Earth and Man: Living with a restless Earth <i>Great Halls 1 & 2 Chair: Dr Ian Lambert (Australia)</i> <i>Professor Iain Stewart (UK), Dr Renato Solidum Jr (Philippines)</i>
1200 - 1300		LUNCH

WEDNESDAY 8 AUGUST 1300 - 1515

1.3 - Session 2 - Geoscience outreach (public communication, museums, media): Concerns

1300 - 1515

Arbour Meeting Room 2

Time		
1300	#2187	Communicating the role of the geosciences in Australia - the AGC strategy Mike Smith
1315	#2188	Capacity building and outreach at University of Zambia's Integrated Water Resources Management Centre Imasiku Nyambe
1330	#2189	EarthCaching: An Earth science outreach success story. Gary Lewis
1345	#2190	A geo institution facing its "information product" marketing Alireza Gharagozlou
1400	#2191	Fossil chocolate, museum goods with interesting geologic stories Makoto Saito
1415	#2192	Knowledge transfer by public outreach to tackle "geo-challenges" Ute Münch
1430	#2193	Clues of geological field training for college students Hongyuan Zhang
1445	#2194	<i>The misrepresentation of science in the public domain</i> Robert (Bob) Carter (Keynote)

WEDNESDAY 8 AUGUST 1300 - 1515 continued

2.4 - Session 2 - Geoethics

1300 - 1500

GeoExpo Hospitality Room 2

Time		
1300	#2195	<i>Mining, environment and geoethical problems in Mongolia</i> Gerel Ochir (Keynote)
1330	#2196	Ethical investments in mining and gas developments in low income countries and communities, including Australia Jennifer Joi Field (Invited)
1345	#2197	A promising practice in geoethics: "ethical jewellery" and its significance in the geological and global community Satoshi Murao (Invited)
1400	#2198	<i>Theory of justice in subsurface use</i> Nataliya Nikitina (Keynote)
1430	#2199	Geoethic Implications of Taoism for Sustainable Development Haiqiao Tan
1445	#2200	Why should a human rights approach be taken to the Management of Natural Disaster Risk Reduction? Development and current status of the issue. Marga Zango-Pascual

3.5 - Session 2 - The silent majority: Cenozoic (Paleocene-Pliocene) records of climatic warmth

1300 - 1500

Boulevard Meeting Room 1

Time		
1300	#2201	Climate, global patterns of biodiversity, and Eocene insects S. Bruce Archibald (Invited)
1315	#2202	The Eocene flora of Svalbard and its climatic significance Abigail Clifton
1330	#2203	Early Eocene vegetation and climate on the Wilkes Land margin of Antarctica reconstructed from ocean-drilling sediment cores. David Greenwood
1345	#2204	A terrestrial Eocene-Oligocene carbon isotope record for Gippsland Basin (Australia) brown coals - Implications for the earliest Cainozoic glaciations Guy Holdgate
1400	#2205	<i>Eocene and Miocene paleoclimate simulations</i> Matthew Huber (Keynote)
1430	#2206	The mid-Cenozoic climate of New Zealand: terrestrial and marine evidence for persistent subtropical conditions Daphne Lee
1445	#2207	How well do models reproduce the warm climates of the Pliocene? Aisling Dolan

4.2 - Session 2 - Global geochemical mapping: understanding chemical Earth (The 2nd Arthur Darnley Symposium)

1300 - 1500

Arbour Meeting Room 1

Time		
1300	#2208	<i>Geochemical atlas of European agricultural and grazing land soil</i> Christopher Johnson (Keynote)
1330	#2209	Mapping the geochemistry and mineralogy of soils of the conterminous United States David Smith

WEDNESDAY 8 AUGUST 1300 - 1515 continued

1345	#2210	Arc magmatic provenance for Lesser Himalayan sedimentary sequence (LHSS): trace elemental evidence from low-order stream sediment geochemistry and regional geochemical mapping. Pulok Mukherjee
1400	#2211	Cold-trapping of POPs in Central Tibetan Plateau, China: Influences of Soil components Guo-Li Yuan

5.2 - Session 2 - Information management – interoperability and standards: Data 1300 - 1500 Boulevard Meeting Room 3

Time		
1300	#2212	International Implementation of Registration and Identification Services for Physical Samples: the IGSN e.V. Kerstin Lehnert
1315	#2213	<i>Why uniquely identified spatially-located physical specimens are the virtual gold standard of the digital age</i> Clinton Foster (Keynote)
1345	#2214	Data the life blood of the mining industry Mitchell Parsons
1400	#2215	<i>Vocabulary service for earth and environmental sciences</i> Simon J D Cox (Keynote)
1430	#2216	IGBA database system after thirty years Ali Al-Mishwat
1445	#2217	On new emerging concepts of Tarakan Sedimentary Basin - a Petroleum Digital Ecosystem (PDE) Shastri Nimmagadda

5.6 - Session 7 - Quantitative mineral resources estimation 1300 - 1500 Plaza Auditorium

Time		
1300	#2218	<i>The Use of Multi-element Geochemistry in Mineral Resource Estimation</i> Eric Grunsky (Keynote)
1330	#2219	The nonlinear changes in melt viscosity and its geological significance Lilu Cheng
1345	#2220	Wavelet analysis of geophysical data and its application for copper mineral deposits forecast in Mandamah area Wei Shen
1400	#2221	Estimation of predicted resources by Ore Deposit Model-Synthetic Geological Information method Keyan Xiao
1415	#2222	Weights of evidence method and Weighted Logistic Regression model Daojun Zhang

6.2 - Session 2 - Geothermal resources: Geothermal Exploration I Sponsored by CO2 CRC 1300 - 1500 Mezzanine Room 1

Time		
1300	#2223	Recent advances in electromagnetic geothermal exploration based on using of an indirect electromagnetic geothermometer Viacheslav Spichak
1315	#2224	High temperature acoustic imaging - Assessing controls on permeability in hot geothermal reservoirs David McNamara

WEDNESDAY 8 AUGUST 1300 - 1515 continued

1330	#2225	<i>Application of geoscience to geothermal resource evaluation and risk assessment: the New Zealand experience</i> Greg Bignall (Keynote)
1400	#2226	The origin of the temperature anomaly in SW Queensland Australia: High Heat Producing Granites or efficient insulation cover? Coralie Siegel
1415	#2227	Coastal Geothermal Energy Initiative: An innovative approach to assessing Queensland's geothermal potential Sarah Sargent

7.1 - Session 2 - New age metals: the geology and genesis of ores required for a changing economy and a carbon constrained world [Society for Geology Applied to Mineral Deposits (SGA)]: Rare-earth and related elements

1300 - 1500

Mezzanine Room 2

Time		
1300	#2228	Geochemical constraints on the genesis of the Bayan Obo Fe-REE-Nb deposit in Inner Mongorlia, China Xiaoyong Yang (Invited)
1315	#2229	Rare Earth Deposits of South Korea Christopher Sennitt
1330	#2230	Origin of Hongcheon Fe-REE deposit, S.Korea Han Yeang LEE
1345	#2231	Petrogenesis of Carbonatite hosted LREO deposit from India SK Bhushan
1400	#2232	Characterization of apatite resources in Norway and their REE potential-a review Peter Ihlen
1415	#2233	Mineralizations of Ta, Nb, W, Sn, Ti and REE in the Amazonas and Orinoco regions of Colombia Thomas Cramer
1430	#2234	The Nechalacho Rare Metal Deposit, Northwest Territories, Canada William Mercer

8.3 - Session 2 - Probing the Earth from near-surface to the mantle - techniques, modelling software and case histories to aid mineral exploration: EM and Potential Fields

1300 - 1500

Great Hall 3

Time		
1300	#2235	Deep crustal and upper mantle electrical structure in basement terrains in Western Australia Mike Dentith
1315	#2236	New Electromagnetic Technique for Mining Exploration Olexandr Ingerov
1330	#2237	Using the discrete conductor model to extend the concept of airborne electromagnetic footprint Richard Smith
1345	#2238	Applications of 2-D CSAMT Inversion with Topography in Mineral Exploration Da Lei
1400	#2239	Analysis of a full-tensor gravity and magnetic survey over the Karasjok Greenstone Belt Jörg Ebbing
1415	#2240	Delineating depth of cover using an updated spectral method for depth to magnetic source estimation Tony Meixner

WEDNESDAY 8 AUGUST 1300 - 1515 continued

1430	#2241	Aeromagnetic interpretation of tectonosedimentary controls on ironsand deposition in the Taranaki and Wanganui-King Country Basins, offshore N-Island, New Zealand Jurriaan Feijth
1445	#2242	An analysis of iron ore potential resource in China base on the aeromagnetic data Zhang Hongrui

9.1 - Session 2 - Orogen to district-scale structural and tectonic controls on porphyry and epithermal deposits 1300 - 1500 Great Hall 4

Time		
1300	#2243	<i>Tectonics and the porphyry - epithermal transition</i> Richard Tosdal (Keynote)
1330	#2244	Tectonic triggers for porphyry Cu-Au and epithermal Au-Ag ore formation and preservation: lessons from the Philippines David Cooke
1345	#2245	Occurrence of multiple quartz generations in veins from the Far Southeast porphyry Cu-Au deposit, Philippines: implications for the interpretation of fluid inclusion assemblages Thomas Monecke
1400	#2246	Epithermal Gold Mineralization in the Trenggalek District, East Java, Indonesia Ryohei Takahashi
1415	#2247	Genesis of porphyry-epithermal mineralisation of the Cerro la Mina prospect, southern Mexico Nicholas Jansen
1430	#2248	Isotope Geochemistry of the Northeast Zone, Mount Polley alkalic Cu-Ag-Au porphyry deposit, Canada: A case for carbonate assimilation Heidi Pass
1445	#2249	Meteoric water incursion and rapid assimilation by a magmatic-hydrothermal system: In situ microanalysis of delta18O in quartz Kalin Kouzmanov

9.8 - Session 2 - Structural control and fluid processes in ore genesis 1300 - 1500 Plaza Meeting Room 2

Time		
1300	#2250	Brecciation in mineralising systems Alison Ord
1315	#2251	Hydrothermal activity in basement granite associated with unconformity-related uranium deposit in Chitral prospect, Cuddapah Basin, India Jugina Thomas
1330	#2252	Internal structure of fault zone and its control on mineralization: Dongmohazhua Pb-Zn deposit, central Tibet Hongrui Zhang
1345	#2253	Contrasting fluid conditions associated with gold mineralization in banded iron-formation at the Kalahari Goldridge and Amalia gold deposits, Kraaipan-Amalia greenstone belts, South Africa. Napoleon Q Hammond
1400	#2254	Platinum Mineralization at Owendale, NSW: New insights into the genesis of Pt mineralization in Zoned Alaskan Type Ultramafic Complexes Reid Keys
1415	#2255	The Avebury nickel deposit: metal rich fluid inclusions in olivine, evidence of nickel transport by brine-rich fluids Alexey Lygin

WEDNESDAY 8 AUGUST 1300 - 1515 continued

1430	#2256	Geochronology of felsic volcanic rocks from the Beizhan magnetite ore deposit in the Xinjiang western Tianshan orogen, China: Constraints on the age of mineralization Zuoheng Zhang
1445	#2257	Chaupacha Mississippi Valley-type Pb-Zn deposit in fold-thrust belt of India-Asian collision zone, Tibet Yucai Song

11.4 - Session 2 - Petroleum reservoir modelling, seals and enhanced oil recovery: Unconventional Reservoirs and Fluvial Reservoirs 1300 - 1500 Mezzanine Room 3

Time		
1300	#2258	Pitfalls and challenges in modelling coal seam gas reservoirs: an example from the Walloon Coal Measures, Surat basin, Australia Amanda Murphy (Invited)
1315	#2259	Deterministic and stochastic discrete fracture network (DFN) modeling using seismic attributes Bahram Habibnia
1330	#2260	Research of volcanic reservoir characters and the study of exploration technologies WeiFeng Wang
1345	#2261	Evaluation and Identification of Volcanic Reservoirs of Yingtai fault depression, Songliao Basin Yan Zhang
1400	#2262	Inferring process-based models from well data: an innovative method dedicated to meandering systems Isabelle Cojan
1415	#2263	New data on the sedimentology and sequence stratigraphy of the Nkporo group (Campano-Maastrichtian), Anambra Basin, Nigeria. Shirley Odunze
1430	#2264	Analysis of secondary oil/water inversion in sandstone reservoir in Chepaizi area, Junggar Basin, China Xiaodong Zhao
1445	#2265	Recognition and genetic types of paleokarst fractures and caves in carbonate reservoirs in Tahe Oilfield in Tarim Basin Tian Fei

12.2 - Session 1 - Shale Gas Reserves and Production 1300 - 1500 Mezzanine Room 4

Time		
1300	#2266	<i>Analysis of coupled mechanisms of flow and geomechanics in fractured tight-gas and shale-gas reservoirs</i> George Moridis (Keynote)
1330	#2267	Analysis of Barnett Shale production and reserves utilizing Rock Exposure Index decline analysis John R. Browning
1345	#2268	Shale gas production and economics in Barnett Gurcan Gulen
1400	#2269	Geological characteristics of the Jurassic tight oil in the Sichuan Basin, China Shizhen Tao
1415	#2270	<i>Water Requirements and Environmental Impact of Shale Gas Extraction</i> Ian Duncan (Keynote)
1445	#2271	Geological controls on reservoir properties and production potential: lessons learned from Paleozoic shale gas plays in southern China Xinjing Li

WEDNESDAY 8 AUGUST 1300 - 1515 continued

13.3 - Session 1 - Deepwater sedimentation

1300 - 1500

Boulevard Room

Time		
1300	#2272	<i>The evolution of frontier deep water exploration: a number of new yards to play in</i> Barrett Dixon (Keynote)
1315	#2273	A review of deepwater sedimentation in the Neo- and Meso-tethyan oceans as constrained by radiolarian biostratigraphy. Alan Baxter
1330	#2274	Contourite depositional system on the Uruguayan Slope F. Javier Hernández-Molina
1345	#2275	The segmentations and the significances of the Central Canyon System in the Qiongdongnan Basin, northern South China Sea Ming Su
1400	#2276	Sedimentary expressions of the distal Mediterranean Outflow Water north of 42°N David Van Rooij
1415	#2277	PRESENTATION CANCELLED
1430	#2278	Vortex Structures in Deposits formed by Submarine Debris Flow Shirou Nakaya

14.3 - Session 1 - Divergent and transform passive margins: observations, imaging and case studies: Margins of Australia, Antarctica and Asia

1300 - 1500

Plaza Meeting Room 6

Time		
1300	#2279	<i>Inter-relationship between tectonic and magmatic processes during hyper-extension and break-up at rifted margins</i> Gianreto Manatschal (Keynote)
1330	#2280	Structural architecture and plate reconstructions of Australia's southwest margin: implications for basin evolution. Lisa Hall
1345	#2281	Process-oriented gravity modelling on Australia's western margin Ron Hackney
1400	#2282	Crustal Thickness Variations under the northern Perth Basin, Western Australia, from 3D Gravity Modelling Nils Koether
1415	#2283	The Mesozoic Antarctic Basin System: the flat heart of Gondwana Frank Lisker
1430	#2284	Evolution of the continental slopes in the northern South China Sea YingMin Wang
1445	#2285	From subduction to passive continental margin extension-the evolution of the South China Sea Zhen Sun

15.4 - Session 3 - Linking deep earth to plate tectonic and surface processes

1300 - 1500

Plaza Meeting Room 7

Time		
1300	#2286	<i>Eroding transient dynamic topography</i> Jean Braun (Keynote)
1330	#2287	<i>Small-scale convection during lithospheric extension: Subsidence, stratigraphy and magmatism</i> Kenni Dinesen Petersen (Keynote)

WEDNESDAY 8 AUGUST 1300 - 1515 continued

1400	#2288	Topographic response to development of Rayleigh-Taylor Instability at the base of the mantle lithosphere Weronika Gorczyk (Invited)
1415	#2289	Linking Oceanic and Continental Observations of Dynamic Topography around Australia Karol Czarnota
1430	#2290	Isostatic state of the Australian crust from refraction seismic measurements Alexey Goncharov (Invited)
1445	#2291	Responses to coupling of North America and Pacific plates: Global mantle flow, episodic orogenesis and uplift Thomas Anderson

15.5 - Session 2 - The Formation of Accretionary Orogens 1300 - 1500 Great Hall 1&2

Time		
1300	#2292	Eocene-Oligocene granitoids in southern Tibet: Constraints on Crustal Anatexis and Tectonic Evolution of the Himalayan Orogen Zengqian Hou
1315	#2293	The Western Qinling Huicheng Basin filling process and its restriction of Mesozoic intracontinental tectonic evolution Wei Li
1330	#2294	Metallogenic relationships to accretionary and collisional processes in North Xinjiang, NW China Wenjiao Xiao
1345	#2295	Research for the Early Paleozoic and Late Paleozoic ophiolites in the Buqingshan tectonic melange belt of southern margin of East Kunlun, China Pei Xianzhi
1400	#2296	Tectonic evolution in the far-eastern Eurasian Plate around the Korean Peninsula Tae-Kyung Hong
1415	#2297	Major distinction between the accretionary orogens in SW and NE Japan (Hokkaido included): geochemical arguments and implications for crustal growth Bor-Ming Jahn

16.5 - Session 2 - Lithosphere structure from ambient noise and other seismology 1300 - 1500 Plaza Meeting Room 5

Time		
1300	#2298	<i>Structure of the oceanic lithosphere from the youngest to the oldest seafloor in the Pacific</i> Donald Forsyth (Keynote)
1330	#2299	Seismically Imaging the Oceanic Lithosphere-Asthenosphere Boundary Catherine Rychert (Invited)
1345	#2300	Mapping the upper mantle with multi-mode surface waves: Application to the Australian region Brian Kennett (Invited)
1400	#2301	Crustal and Mantle Seismic Discontinuities beneath the Afar Depression: Preliminary Results from Stacking of Receiver Functions Stephen Gao
1415	#2302	Surface wave tomography with USArray: phase velocity, amplification, and H/V ratio Fan-Chi Lin (Invited)
1430	#2303	A Multi-Scale, Finite-Frequency Approach to the Inversion of Body and Surface Wave Travel Times for Shear Velocity Structure beneath Central Tibet Shu-Huei Hung

WEDNESDAY 8 AUGUST 1300 - 1515 continued

17.5 - Session 1 - The origin and settings of Archean mineral systems

1300 - 1500

Boulevard Meeting Room 2

Time		
1300	#2304	<i>The lithosphere, geodynamics and Archean mineral systems</i> Graham Begg (Keynote)
1330	#2305	Nickel mineral systems within an evolving Archean craton David Mole
1345	#2306	How old are the Barberton-type komatiites in the Yilgarn Craton? Sandra Romano
1400	#2307	Plume tectonics in the East Yilgarn Nickel province: evidence from the volcanic stratigraphy Stephen Barnes (Invited)
1415	#2308	Platinum Group Elements Characteristics of Shandong komatiite, North China craton Suhua Cheng
1430	#2309	Archean gravity-driven tectonics on hot and flooded continents: Controls on long-lived mineralized hydrothermal systems away from continental margins Nicolas Thebaud
1445	#2310	Isotopic and hyperspectral mapping of redox gradients at the St Ives gold camp, Western Australia Jonathan Cloutier

18.3 - Session 2 - Proterozoic supercontinents – positions of Australia, Laurentia and India

1300 - 1500

Plaza Meeting Room 8

Time		
1300	#2311	Columbia amalgamation: An Australian Perspective Peter Betts
1315	#2312	Comparison of detrital zircon and Sm-Nd isotopic data from Paleoproterozoic sedimentary basins of northern Australia and northwestern Canada: new evidence for an Australia-NW Laurentia connection in NUNA. Alexis Lambeck
1330	#2313	Unravelling the Mesoproterozoic mysteries of the Musgrave Province Heather Howard
1345	#2314	Detrital zircon provenance, age constraints and revised stratigraphy of the Mesoproterozoic and Neoproterozoic Pahrump Group (Supergroup?), Death Valley region, California Robert Mahon
1400	#2315	India in Nuna - possibilities and problems Sergei Pisarevsky (Invited)
1415	#2316	Palaeoproterozoic palaeomagnetism from Bundelkhand and Bastar cratons in Central/north India and the implications for supercontinental reconstructions Radhakrishna Tallavajhala
1430	#2317	The tectonic evolution of the Ongole Domain, India: a geochronological and geochemical approach Bonnie Henderson
1445	#2318	Structure and geodynamics of the East European Craton lithosphere in Russia based on combine study of deep seismic, gravity and magnetic data Sergey Kostyuchenko

WEDNESDAY 8 AUGUST 1300 - 1515 continued

21.5 - Session 2 - Intraplate magmatism, including ocean island basalts, continental basalt provinces, kimberlites and lamproites

1300 - 1500

Plaza Meeting Room 9

Time		
1300	#2319	Volcanism Inferred from Satellite Altimetry and the Global Seamount Census Paul Wessel (Invited)
1315	#2320	Intra-plate melt intrusion as a consequence of Raileigh-Taylor Instability Weronika Gorczyk
1330	#2321	Crustal influences on mantle xenoliths Janet Hergt
1345	#2322	Garnet pyroxenites are the dominant source lithology for Cenozoic continental basalts in Eastern China and Mongolia: new evidence from experimental petrology Zongfeng Yang
1400	#2323	Plume activity and mafic magmatism in the south Indian granulite terrain: implications on Gondwana and Rodenia reassembly Pratheesh Prabhakaran Nair
1415	#2324	Post-kinematic lithospheric delamination of the Wuyi-Yunkai orogen in South China: Evidence from ca. 435 Ma high-Mg basalts Weihua Yao

22.5 - Session 2 - Understanding migmatites

1300 - 1500

Plaza Meeting Room 10

Time		
1300	#2325	<i>Composition and microstructure in understanding migmatites</i> Edward Sawyer (Keynote)
1330	#2326	Nanogranites in anatectic metapelites: reading the message in the bottle Bernardo Cesare
1345	#2327	Is melt extraction from the anatectic zone fractal? Chris Yakymchuk
1400	#2328	The distribution of anatectic magma throughout the continental crust, new perspective from the study of the deep middle crust. Samuel Morfin
1415	#2329	Partial melting of carbonates in the Adamello contact aureole (Northern Italy) David Floess
1430	#2330	Water-fluxed melting in the Himalayan: how it happens Roberto Weinberg

23.5 - Session 2 - Mesozoic Bioevents

1300 - 1500

Qld Museum Theatre

Time		
1300	#2331	<i>The global vegetation pattern across the Cretaceous-Paleogene mass-extinction interval - the state of knowledge</i> Vivi Vajda (Keynote)
1330	#2332	A GSSP proposal for the base of the Albian Stage at Col de Pré-Guittard (Vocontian Basin, southeast France) Brian Huber
1345	#2333	A comparison of Aucellina between Argentina and NE China: Relationship of bipolar bivalves Jingeng Sha
1400	#2334	The "last minutes" of foraminiferids before the latest Cretaceous-Paleocene extinction: an example from the Polish Carpathians Adam Gasinski
1415	#2335	The paucity of Australian Mesozoic tetrapods Tom Rich

WEDNESDAY 8 AUGUST 1300 - 1515 continued

24.1 - Session 2 - Reefs and Carbonates – secular changes including climate

1300 - 1500

Mezzanine Room 6

Time		
1300	#2336	Widespread marine dolomite precipitation in the Precambrian: Cryogenian marine cements record unusual ocean chemistry Ashleigh Hood (Invited)
1315	#2337	<i>Reconstructing Tropical Climate Variability using the Skeletal Geochemistry of Massive Corals</i> Terrence Quinn (Keynote)
1345	#2338	Dynamic Dolomite as the Driver for Mg/Ca change in the Cenozoic Ocean Bradley Opdyke
1400	#2339	Ocean acidification in the Carnian (Upper Triassic)? Nereo Preto
1415	#2340	PRESENTATION CANCELLED

25.4 - Session 2 - Source to sink sediment pathways and the evolution of continental margins

1300 - 1500

GeoExpo Hospitality Room 1

Time		
1300	#2341	<i>Sediment Transport to the Deep-Water Arabian Sea since the Last Glacial Maximum</i> Peter Clift (Keynote)
1330	#2342	Shelf to Basin Sediment Transport on the South East Australian Continental Margin Ron Boyd
1345	#2343	Shifts of the Rio de la Plata main depocentre - the late Quaternary sedimentary evolution of the Uruguayan shelf Hendrik Lantzsich
1400	#2344	Late Pleistocene lithofacies and changes in sediment provenance in Canterbury Basin, South Island of New Zealand. Tania Villasenor
1415	#2345	Spatial and temporal patterns in turbidite deposition along the Great Barrier Reef margin Ángel Puga-Bernabéu
1430	#2346	Morphodynamic evolution of submarine canyons in a passive, progradational margin. Aaron Micallef (Invited)
1445	#2347	Source to sink perspective of stratigraphic fidelity across the Waipaoa Sedimentary System: a comparison of event character over the last millennium Alan Orpin

26.3 - Session 1 - Arctic tectonics

1300 - 1515

Plaza Meeting Room 3

Time		
1300	#2348	Geochronology of zircons from hemipelagic sediments - a new insight into Arctic geology Nikolai Rodionov
1315	#2349	Evolution of the Arctic margins in the Neoproterozoic-Paleozoic and plate reconstructions Valery Vernikovsky
1330	#2350	Modern Geodynamic Model of the Arctic Ocean Nikolay Sobolev
1345	#2351	Arctic tectonic provinces from gravity and magnetic data Tamara Litvinova

WEDNESDAY 8 AUGUST 1300 - 1515 continued

1400	#2352	Late Palaeozoic architecture and evolution of the southwestern Barents Sea: Insights from a new generation of aeromagnetic data Laurent Gernigon
1415	#2353	Re-evaluating Amerasian Basin tectonics and sedimentation with new geophysical data David Mosher
1430	#2354	Crustal structure in central-eastern Greenland Hans Thybo
1445	#2355	<i>TeMAr-International Tectonic Map of the Arctic: a contribution to CGMW Project "Atlas of Geological Maps of Circumpolar Arctic"</i> Oleg Petrov (Keynote)

28.3 - Session 3 - Geoscientific mapping, characterisation and conceptualisation of hydrogeological systems

1300 - 1500

Plaza Terrace Room

Time		
1300	#2356	Investigation and Mapping of Rock Type Aquifer in Central Mountainous Region of Taiwan Jung Jun Lin
1315	#2357	SMART Aquifer Characterization: Review of a set of Satellite Remote Sensing Methods for Application to Groundwater Hydrology in New Zealand Gil Zemansky
1330	#2358	A review of the Australian dryland salinity paradigms Glen Bann
1345	#2359	Hydraulic Investigations of the Excavation Disturbed Zone at Äspö Hard Rock Laboratory, Sweden Lars O. Ericsson
1400	#2360	Understanding the groundwater evolution in the Fennoscandian Shield using multidisciplinary information Sven Follin
1415	#2361	Spatial evaluation of submarine groundwater discharge from the Willunga Basin, South Australia, using field measurements of radon-222 and electrical conductivity Michael Short
1430	#2362	Characterization and utilization of main aquifer systems of the Mahe Island (Seychelles) Zoran Stevanovic
1445	#2363	An integrated approach using new borehole Nuclear Magnetic Resonance (NMR) technology to determine the hydraulic conductivity of near-surface (<100m) sediments. Kok Piang Tan (Invited)

30.2 - Session 2 - Natural hazards and climate change

1300 - 1500

Sky Room

Time		
1300	#2364	<i>When will anthropogenic climate change signals be detected in US tropical cyclone loss data?</i> Ryan Crompton (Keynote)
1330	#2365	Projections of tropical cyclone wind hazard in the West Pacific Nicholas Summons
1345	#2366	Development and implementation of climate change adaptation measures in coastal areas Jaana Jarva
1400	#2367	Records of high-magnitude water-level events from north-western Australia John Dodson
1415	#2368	The 2010 - 2011 Queensland Floods: a review of the geotechnical effects Guy Grocott

WEDNESDAY 8 AUGUST 1300 - 1515 continued

30.4 - Session 2 - Geohazards in subduction zones

1300 - 1500

Meeting Room S1

Time		
1300	#2369	Is the subduction active along Indo Burmese Arc Region? Arun Kumar
1315	#2370	Evidence of large magnitude earthquakes along the Surigao segment of the Philippine fault, northeastern Mindanao, Philippines Jeffrey Perez
1330	#2371	<i>Volcanic hazards at subduction zones: understanding and communicating uncertainty</i> Gill Jolly (Keynote)
1400	#2372	Modelling volcanic ash ground loading using python-FALL3D: An example from Gunung Gede, West Java Indonesia Adele Bear-Crozier
1415	#2373	Sulfur active flows, SO ₂ combustion, incandescence y phreatic eruptions in the Turrialba volcano. Gino Gonzalez
1430	#2374	Chemical and environmental impact related to geohazards in subduction zones Catherine Chague-Goff
1445	#2375	The development of a strong-motion database for the Sumatra-Java region, Indonesia Ariska Rudyanto

31.3 - Session 2 - Engineering Geology In Mining: Iron Ore, Models and Slope Depressurisation

1300 - 1500

Plaza Meeting Room 4

Time		
1300	#2376	<i>Engineering geology of the Pilbara iron ore deposits, Western Australia</i> Mark Eggers (Keynote)
1330	#2377	Geophysics, geochemistry and geotechnics - how disciplines combine to improve slope design at Mining Area C Helen Coleman
1345	#2378	3D engineering and geomechanical survey for open pit redesign of Kovdor Bdy-Ap-Mag deposit Dmitry Zhirov
1400	#2379	Groundwater, pore pressure and wall slope stability. A model for quantifying pore pressures in current and future mines. Richard Brehaut

32.1 - Session 2 - Mineral Exploration: Ore characterisation and thermal infrared mineralogy

1300 - 1500

F1 - Training Room

Time		
1300	#2380	Creating a seamless 3D mineral map: applications to channel iron ore exploration in the Rocklea Dome Maarten Haest
1315	#2381	Mapping the chemical composition of nickel laterites with reflectance spectroscopy at koniambo, New Caledonia Kai Yang
1330	#2382	<i>Geometallurgy of iron ores</i> Erick Ramanaidou (Keynote)
1400	#2383	Technology development trends in the infrared core imaging arena and some of the possibilities it opens up Rainer Bärs
1415	#2384	Infrared Imaging of Feldspars in Intrusive Rocks Phil Harris

WEDNESDAY 8 AUGUST 1300 - 1515 continued

1430	#2385	Natural variability in the mid-infrared reflectance of quartz Benoit Rivard
1445	#2386	Full wavelength 3D mineral mapping of the Minnie Springs Mo-W-Cu prospect from drill core to space Thomas Cudahy
34.1 - Session 1 - Geological processes of the construction of Asia 1300 - 1500 Plaza Meeting Room 11		
Time		
1300	#2387	Advances in research of Asian geology--A summary of 1:5M International Geological Map of Asia (IGMA5000) project Jishun Ren
1315	#2388	Phanerozoic Growth of Asia; Geodynamic Processes and Evolution Manuel Pubellier
1330	#2389	New Ordovician paleomagnetic results from South China Block and their paleogeographic implications Shihong Zhang
1345	#2390	SHRIMP dating of the Qiqijianake ophiolitic mélange in the Kokshal region, Southwestern Tianshan and its tectonic implications Wang Ying
1400	#2391	Steps of construction of Asia: a perspective from southwest China and adjacent areas Xiaochi Jin
1415	#2392	Database and GIS of 1:5M International Geological Map of Asia Jun Wang
35.3 - Session 2 - International Subcommittee on Cambrian stratigraphy: Cambrian chronostratigraphy and evolution and diversification of early Cambrian life 1300 - 1500 Mezzanine Room 9		
Time		
1300	#2393	Russian Reference Scale for Cambrian as a part of the Global Stratigraphic Scale Alexey Varlamov
1315	#2394	Oldest trilobites in South China: ontogeny and global correlation Xingliang Zhang
1330	#2395	Origin and life styles of early brachiopods: insights from the Chengjiang Fossil-Lagerstätte Zhifei Zhang
1345	#2396	Major Cambrian faunas of South China: Their age, preservation and palaeoenvironmental background Maoyan Zhu
35.4 - Session 1 - Ordovician intercontinental correlations: developing global and regional chronostratigraphy 1300 - 1500 Mezzanine Room 8		
Time		
1300	#2397	Taking the Ordovician global chronostratigraphy to the provinces David Harper
1315	#2398	Ordovician sedimentary basins of the Siberian Platform: stratigraphy, sedimentology, sea-level and biotic events Andrei Dronov
1330	#2399	Middle Ordovician biostratigraphy, paleoenvironments and $\delta^{13}\text{C}$ isotopic records in the Argentine Precordillera Guillermo Albanesi

WEDNESDAY 8 AUGUST 1300 - 1515 continued

1345	#2400	Conodonts as a tool for dating and correlation of the Ordovician in the East European Platform: problems and potentials Tatiana Tolmacheva
1400	#2401	A revised chronostratigraphic scheme for the Ordovician of Baltoscandia Arne Thorshøj Nielsen
1415	#2402	<i>Advances in Ordovician stratigraphy in its historical, British type area</i> Thijs Vandenbroucke (Keynote)
1445	#2403	The Ordovician conodonts of Wuhai region on the western margin of the Ordos Basin, China Xiuchun Jing

36.1 - Session 2 - Environmental change and ancient societies: Focus on Europe and Asia 1300 - 1515

Boulevard Auditorium

Time		
1300	#2404	<i>Reassessing the seismic value of archaeological destruction layers in Minoan Crete</i> Manuel Sintubin (Keynote)
1330	#2405	Palaeotsunami imprint along the shores of the Gulf of Kyparissia (Peloponnese, Greece) Stan Kinis
1345	#2406	Occupation of Mesolithic archaeological sites as indicator of human response to Early Holocene paleoenvironmental changes in North-Western Pontic region Olena Smyntyna
1400	#2407	Post tsunami survey, paleotsunami record and numerical tsunami modelling in Wallis and Futuna, South West Pacific Geoffroy Lamarche
1415	#2408	A prehistoric meteorite impact in Southeast Bavaria (Germany): tracing its cultural implications Barbara Rappenglueck
1430	#2409	The paleogeographical evolution of the Pannonian Basin in Upper Pleistocene in regional context and its reflection in the mythical traditions Mircea Ticleanu
1445	#2410	<i>Responding to Past Climate Change: Lessons for the Future</i> Chris Turney (Keynote)
1500 - 1530		BREAK

WEDNESDAY 8 AUGUST 1530 - 1730

1.1 - Session 1 - Geoheritage: Methodologies, inventory-based assessments and management of Geosites of National and International significance, contrasting work in Europe and beyond 1530 - 1730

Boulevard Auditorium

Time		
1530	#2411	Welcome and Introduction to the Geoheritage Program. Bernie Joyce & José Brilha:
1545	#2412	<i>The importance of geological heritage and the need for its promotion</i> Kevin Page (Keynote)
1615	#2413	The Geoheritage Tool-kit: towards a National Strategy for identifying and conserving sites of geoheritage significance in Australia Margaret Brocx
1630	#2414	Geotourism - right decision wrong reasons Bruce Leaver

WEDNESDAY 8 AUGUST 1530 - 1730 continued

1645	#2415	Key Role of Geoscientists in Geoheritages researches and Programs, Case Study: The Recent Developments in Geological Survey of Iran Alireza Amrikazemi
1700	#2416	Geodiversity in NSW Parks and Reserves: Theme-based Gap Analysis Stephen Meehan
1.3 - Session 3 - Geoscience outreach (public communication, museums, media): Future 1530 - 1730 Arbour Meeting Room 2		
Time		
1530	#2417	Geoart, promoting Earth Science John Jackson
1545	#2418	Expanding awareness through engaging the commercial media environment, lessons from the launching of EARTH Magazine Christopher Keane
1600	#2419	Talking Rocks: A study of the process of communicating science on a US public geopark trail using push-button audio interpretation stations James Wandersee
1615	#2420	Exploring science learning using smartphones in science museums Seulkee Park
1630	#2421	<i>The International Year of Planet Earth</i> Eduardo De Mulder (Keynote)
1700	#2422	CoCoA: the future ingredient for geoscientific research Gemma Venhuizen
1715	#2423	Landscapes and Wine: how to communicate Geology following a cultural approach Francesca Luger
2.4 - Session 3 - Geoethics 1530 - 1745 GeoExpo Hospitality Room 2		
Time		
1530	#2424	<i>Geoethical importance of information management before/after natural hazards</i> Niichi Nishiwaki (Keynote)
1600	#2425	<i>"Geoethical Implications of the Fukushima Nuclear Accident"</i> Tokio Ohsaka (Keynote)
1630	#2426	Geological information as a guard of economic and ecological sustainability of Central Asian (CA) developing mountain countries. Rahmonbek Bakhtdavlatov
1645	#2427	Climate Change Mitigation: International Imperative and Geoscience Responsibility George Stone
1700	#2428	<i>Geoethical concepts for water system planning in urban areas needed</i> Haiqiao Tan (Keynote)
1730	#2429	A Hippocratic-like oath for geoscientists to foster their ethical responsibility Silvia Peppoloni
3.2 - Session 1 - Geology and Archaeology: submerged landscapes of the continental shelf 1530 - 1730 Boulevard Meeting Room 1		
Time		
1530	#2430	<i>Practical assessment of the global submerged continental shelf as a data source for understanding aspects of prehistoric archaeology during the last 1 million years</i> Nicholas Flemming (Keynote)
1600	#2431	The potential of the islands of northwestern Australia to unlock the archaeology of submerged landscapes. Ingrid Ward

WEDNESDAY 8 AUGUST 1530 - 1730 continued

1615	#2432	South West Arm, Port Hacking - submerged Australian Aboriginal archaeological sites project David Nutley
1630	#2433	Multidisciplinary challenges and the potential for prehistoric archaeology on the submerged continental shelf Helen Farr
1645	#2434	A 'savanna corridor' in Sundaland? Michael Bird
1700	#2435	Submerged landscapes and human dispersals: the Red Sea connection Geoffrey Bailey

4.3 - Session 1 - Advances in the evaluation and interpretation of geochemical data at the continental scale

1530 - 1745

Arbour Meeting Room 1

Time		
1530	#2436	<i>Extraction of Multi-scale Geochemical Anomalies by Nonlinear Methods for Prediction of Mineral Resources in Covered Areas</i> Qiuming Cheng (Keynote)
1600	#2437	Robust principal components analysis of National Geochemical Survey of Australia data Patrice De Caritat
1615	#2438	Predictive Lithologic Mapping and Mineralization Potential Using Lake Sediment and Till Geochemistry in Northern Canada Eric Grunsky
1630	#2439	Temporal changes of transboundary air pollutants in bottom sediments of lakes Kazuo Kamura
1645	#2440	Multivariate statistical evaluation of heavy metals in soils around Tzaneen, South Africa Mafuza Maya
1700	#2441	Queensland geochemical inventory to support geoscientific research and mineral exploration Joseph Tang
1715	#2442	Joint consistent mapping of high-dimensional geochemical surveys Raimon Tolosana-Delgado
1730	#2443	Arsenic enrichment in surface water and soil in Yarlung Tsangpo and Singe Tsangpo drainages in Tibet, China Shehong Li

5.6 - Session 8 - Quantitative mineral resources estimation & Matheron Lecture (IAMG Special Lecture)

1530 - 1730

Plaza Auditorium

Time		
1530	#2444	The evaluation method of mineral resource potential with GIS-based sliding sampling template Luping Pu
1545	#2445	Mineral potential mapping using Cox-type regression for marked point processes K. Gerald van den Boogaart
1600	#2446	A modified weights of evidence model for mineral potential mapping Shengyuan Zhang
1615	#2447	Application of integrated Remote Sensing Techniques in Mineral Exploration at Jiama, Tibet Na Guo

WEDNESDAY 8 AUGUST 1530 - 1730 continued

1630	#2448	The Georges Matheron Lecture is a special lecture sponsored by the IAMG. It is presented by a scientist with proven research ability in the field of spatial statistics or mathematical morphology. Jean Paul Chilès
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6.2 - Session 3 - Geothermal Resources *Sponsored by CO2 CRC*

1530 - 1730

Mezzanine Room 1

Time		
1530	#2449	The Iceland Deep Drilling Project: an Investigation of Very High Enthalpy Geothermal Resources. Wilfred Elders
1545	#2450	To make the sky blue- geothermal utilization in China's oilfields Hua Yang
1600	#2451	<i>Update of World Geothermal Developments</i> Greg Bignall (Keynote)
1630	#2452	Integration of structural, stress, and seismic data to define secondary permeability networks through deep sediments in the Northern Perth Basin and South Australian Otway Basin. Adam Bailey
1645	#2453	Hydrogeochemistry and geothermometry of thermal springs in Central and Eastern Jamaica DeBonne Wishart
1700	#2454	Modelling silica deposition in self-sealing geothermal systems David Dempsey
1715	#2455	Risk of fines-migration formation damage in geothermal wells (Salamander field case) Martin Hand

7.1 - Session 3 - New age metals: the geology and genesis of ores required for a changing economy and a carbon constrained world [Society for Geology Applied to Mineral Deposits (SGA)]: Lithium, indium and other new age commodities

1530 - 1730

Mezzanine Room 2

Time		
1530	#2456	<i>Spodumene-enriched LCT pegmatites: a key source of lithium for a changing world</i> Peter Collins (Keynote)
1600	#2457	Developments and trends in the availability of high-tech metals with a special focus on the German mineral resources situation Volker Steinbach
1615	#2458	Indium in ore deposits - evidences from the early Archean crust to the modern seafloor Ulrich Schwarz-Schampera (Invited)
1630	#2459	Biogenic Graphite Deposits Lloyd Hamilton
1645	#2460	Orthomagmatic V-Ti-Fe deposits in Archaean-Proterozoic layered mafic intrusive complexes in Australia Peter Collins
1700	#2461	Evidence for multiple stages of platinum-group element mineralization in alkalic porphyry systems in the Canadian Cordillera Jacob Hanley

WEDNESDAY 8 AUGUST 1530 - 1730 continued

8.3 - Session 3 - Probing the Earth from near-surface to the mantle - techniques, modelling software and case histories to aid mineral exploration: Data Integration, Inversion and Modelling

1530 - 1745

Great Hall 3

Time		
1530	#2462	Long-wavelength magnetic anomalies and tectonic divisions of the Tasmanides, eastern Australia Robert Musgrave
1545	#2463	Integrating geophysics with mapping - defining a new volcano-sedimentary belt, Mali, West Africa. James Davis
1600	#2464	Multi-scale Integration of Geophysical, Petrophysical and Geochemical Data for 3-D Geological Modelling of Iron Oxide Copper- Gold Mineralisation, Cloncurry District, Australia. James Austin
1615	#2465	The missing link - optimising rock properties estimates - a case study from the Mt Isa Inlier Ray Seikel
1630	#2466	Recovery of magnetization direction from magnetic field interpretation of a ring dyke in northern Queensland Clive Foss
1645	#2467	Stochastic inverse modelling of potential field data directly linked with realistic 3D geology Helen Gibson
1700	#2468	Geophysical modelling of geological cross-sections, BURRA 1:250 000 map sheet, South Australia Tania Dhu
1715	#2469	A model-enhancement technique for geophysical inversion based on blind deconvolution Boxin Zuo
1730	#2470	Constrained potential field modelling of complex crustal domains in the Central Andes Hans-Jürgen Götze

9.1 - Session 3 - Orogen to district-scale structural and tectonic controls on porphyry and epithermal deposits

1530 - 1730

Great Hall 4

Time		
1530	#2471	<i>Porphyry-epithermal deposits of the Altaids; novel insights and implications for mineral exploration</i> Reimar Seltnann (Keynote)
1600	#2472	Diversity of ore-forming systems and geodynamic settings along the Tethyan metallogenic belt: lessons from the Lesser Caucasus - Georgia, Armenia and Azerbaijan Robert Moritz
1615	#2473	Porphyry copper mineralization in Iran: main metallogenic belts and ore-forming episodes Mehraj Aghazadeh
1630	#2474	Geology, geochemistry and fluid inclusion studies of Bazman epithermal Au deposits, north of Bazman volcano, southeastern Iran Ali Sholeh
1645	#2475	Fluid inclusion and stable isotope study of the Chah Zard breccia-hosted epithermal gold-silver deposit, west central Iran Majid Ghaderi

WEDNESDAY 8 AUGUST 1530 - 1730 continued

1700	#2476	Gold and base metal porphyry and epithermal mineralization in Paleoproterozoic magmatic arcs in the Amazonian craton, Brazil Caetano Juliani
1715	#2477	Geochemical differences between subduction- and collision-type ore-bearing porphyric rocks Ji-Feng Xu
12.2 - Session 2 - Shale and Tight Gas in Asia and Elsewhere 1530 - 1730 Mezzanine Room 4		
Time		
1530	#2478	<i>Unconventional petroleum resources - old basins new ideas</i> Melanie Fitzell (Keynote)
1600	#2479	Shale Gas Characteristics in the Southeastern Part of the Ordos Basin, China: Implications for the Accumulation Condition and Potential of Continental Shale Gas Xuan Tang
1615	#2480	Lithofacies and reservoir characteristics of Eocene source rocks in Jiyang Depression, east China Zaixing Jiang
1630	#2481	Shale characteristics and gas bearing controlling factors in Wufeng Formation and Longmaxi Formation in southeast Chongqing, China Tieya Jing
1645	#2482	The Toolebuc Formation - Shale gas potential in Queensland Alison Troup
1700	#2483	Unconventional Reservoirs distribution in Pakistan and associated challenges Syeda Areeba Ayaz
1715	#2484	Potential of Shale Gas Resources associated with the Upper Permian Strata, Periphery of Songliao Basin, NE China Shuwang Chen
13.4 - Session 1 - Depositional Controls on Reservoirs 1530 - 1730 Boulevard Room		
Time		
1530	#2485	<i>The Role of Depositional Analogues in Uncertainty Framing for Reservoir Characterisation and Modelling</i> Shaun Sadler (Keynote)
1600	#2486	Stratigraphic Characteristics and Organization of Tidal-Fluvial Channels in the Athabasca Oil Sands Ron Boyd (Invited)
1615	#2487	Predicting Reservoir-Quality Facies in Low Net-Gross Fluvial Overbank Successions Jennifer Stuart
1630	#2488	The role of salt diapirism in controlling sedimentary architecture and sand-body distribution: a case study from the Permian Cutler Group, SE Utah, U.S.A. Joanne Venus
1645	#2489	Interaction between down-slope and along-slope processes on the margins of Daihai Lake, Northern China: Implication for deltaic depositional models in lacustrine rift basin Xinghe Yu
1700	#2490	Provenance analysis of Chang 7 Member Yanchang Formation of Triassic in Ordos Basin, China Ruogu Wang
1715	#2491	Insights into provenance pathways on the North West Shelf, Australia Christopher Lewis

WEDNESDAY 8 AUGUST 1530 - 1730 continued

14.3 - Session 2 - Divergent and transform passive margins: observations, imaging and case studies: Margins of the Atlantic, the Arctic and Northern Europe

1530 - 1730

Plaza Meeting Room 6

Time		
1530	#2492	<i>Depth-dependent extension, two-stage breakup and depleted lithospheric counterflow at rifted margins</i> Ritske Huismans (Keynote)
1600	#2493	Plate kinematics and lithosphere dynamics in the evolving South Atlantic rift Christian Heine
1615	#2494	Two extensional events in the Colorado Basin, offshore Argentina: a 3D structural and geophysical analysis Julia Autin
1630	#2495	Crustal and Lithosphere Thinning Profiles Determined along the Northeast Brazilian Rifted Margin Gilvan Hamsi
1645	#2496	The thermal and density structure of passive margins Magdalena Scheck-Wenderoth
1700	#2497	A crust-scale 3D structural model of the Beaufort-Mackenzie Basin (Arctic Canada) - implications for basin evolution and the present-day thermal field Judith Sippel
1715	#2498	Exhumation history of the Norwegian basin margin in the Hardangerfjord area, SW-Norway. Fabian Kohlmann

15.5 - Session 3 - Orogens and orogenesis: accretionary, cordilleran and collisional processes, products: Lessons from the Tasmanides of Eastern Australia

1530 - 1730

Great Hall 1&2

Time		
1530	#2499	<i>The southern Tasmanides of eastern Australia: an unusual collage of accretionary orogens</i> Richard Glen (Keynote)
1600	#2500	<i>Accretionary orogens in the Queensland sector of the Tasmanides, eastern Australia</i> Ian Withnall (Keynote)
1630	#2501	A U-Pb zircon-rutile geochronology study: implications for the Cambrian evolution of the Koonenberry margin Emma Johnson
1645	#2502	Evidence for a subducted seamount, Narooma accretionary complex, NSW, Australia Robin Offler
1700	#2503	Ordovician marginal basin evolution near the palaeo-Pacific east Gondwana margin in eastern Australia Richard Glen
1715	#2504	Use of coral faunas to test tectonic models for the late Silurian to Middle Devonian of the Yarrol Province, eastern Australia. Paul Blake

16.1 - Session 1 - The lithosphere-asthenosphere boundary: nature, formation and evolution from Hadean to now

1530 - 1730

Plaza Meeting Room 7

Time		
1530	#2505	Tectonically asymmetric Earth Carlo Doglioni

WEDNESDAY 8 AUGUST 1530 - 1730 continued

1545	#2506	Full-waveform synthetic seismograms for evaluating seismic proxies for the lithosphere-asthenosphere boundary David Eaton
1600	#2507	How do thicknesses of thermal and chemical boundary layers relate in continental upper mantle? Irina Artemieva
1615	#2508	The nature of lithosphere-asthenosphere boundary: the role of anisotropic physical properties David Mainprice (Keynote)
1645	#2509	Deep reflections at 22-29 s TWTT from beneath the Wellington region, New Zealand, and possible implications for structure and thickness of the lithosphere Tim Stern
1700	#2510	Mantle migmatites obscure the lithosphere-asthenosphere boundary by intense veining with olivine-free ultramafic rock assemblages Stephen Foley

18.3 - Session 3 - Proterozoic supercontinents – positions of North China, Central Asia, South China, Siberia and Baltica

1530 - 1730

Plaza Meeting Room 8

Time		
1530	#2511	Paleomagnetism of the Neoproterozoic Qiaoenbrak Formation of the Aksu area, NW China: New constraints on the paleolatitude of Tarim Block during the Sturtian glaciation Yong-Xiang Li
1545	#2512	Grenville-age orogenesis in the Qaidam-Qilian block: The link between South China and Tarim blocks Shuguang Song
1600	#2513	Neoproterozoic magmatism and HP metamorphism in the North Lhasa terrane, central Tibet, and their tectonic significances Zeming Zhang
1615	#2514	Early crustal evolution in the western Yangtze Block: Evidence from U-Pb and Lu-Hf isotopes on detrital zircons from sedimentary rocks Lijuan Wang
1630	#2515	Mesoproterozoic Weathering Intensity and Modern Large-River Systems Ignacio Gonzalez-Alvarez
1645	#2516	Paleomagnetism of the Lower Paleoproterozoic Bilyakchan-Ulkan volcanoplutonic belt (Siberian craton's south-eastern part), and geodynamic consequences Alexey Didenko
1700	#2517	The updated history of Proterozoic magmatism at the Uralian side of Baltica: implications for paleocontinental reconstructions Victor Puchkov
1715	#2518	The 3D crustal structure of the East European Craton: evidence of the plume related intracontinental orogenesis during Paleoproterozoic Michael Mints

21.5 - Session 3 - Kimberlites, lamproites, and lamprophyres

1530 - 1730

Plaza Meeting Room 9

Time		
1530	#2519	The Walgidee Hills zoned lamproite intrusion, West Kimberley Province, Western Australia Lynton Jaques
1545	#2520	Are Wajrakarur kimberlites from Andhra Pradesh, India, true kimberlites? Gurmeet Kaur

WEDNESDAY 8 AUGUST 1530 - 1730 continued

1600	#2521	Mineralogy and Petrology of the Upper Pleistocene/Holocene Igwisi Hills kimberlitic volcanoes, Tanzania Shukrani Many
1615	#2522	Plume-related lamprophyric intrusions and their association to indium and rare metal mineralization in the Internal Variscides (Germany, Czech Republic) - indications for late-Variscan mantle-derived hydrothermal pulses Thomas Seifert
22.5 - Session 3 - From anatexis to granite 1530 - 1730 Plaza Meeting Room 10		
Time		
1530	#2523	<i>From anatexis to granite: An examination of the roles of melt chemistry and peritectic assemblage entrainment in shaping the compositions of granite magmas.</i> Gary Stevens (Keynote)
1600	#2524	Anatexis as the chemical baseline for crustal differentiation: insights from isotopes Tony Kemp
1615	#2525	Petrological and geochronological evidence for anatectic melting of UHP metamorphic gneisses during exhumation in the Sulu orogen Yi-Xiang Chen
1630	#2526	Pelitic granulite in the Chinese Altai orogen: modelling, dating and geological constraint Wei Wang
1645	#2527	The geochemistry of ultrahigh pressure anatexis Aleksandr Stepanov
1700	#2528	Origin of migmatites from the Bixiling area, the Dabie UHP terrane, China: Microstructure, mineralogical and geochemical studies Hongyan Li
23.5 - Session 3 - Gondwanan Mesozoic Vertebrates 1530 - 1730 Qld Museum Theatre		
Time		
1530	#2529	<i>Tectonic drift as a driver of Gondwanan vertebrate evolution</i> Louis Jacobs (Keynote)
1600	#2530	Mesozoic mammals of India - stratigraphic distribution, diversity and palaeobiogeographic context Guntupalli V.R. Prasad (Invited)
1615	#2531	An exceptional record of dinosaur evolution and extinction in Europe: the Maastrichtian South- Pyrenean succession (Spain). Oriol Oms
1630	#2532	New Forearm Elements Discovered of Holotype Specimen Australovenator wintonensis from Winton, Queensland, Australia Matt White
1645	#2533	Triassic pistosauroid Yunguisaurus (Reptilia; Sauropterygia) and origin of the Plesiosauria Tamaki Sato (Invited)
1700	#2534	Australian polycotyloid plesiosaurs: nascence of a global radiation? Benjamin Kear
1715	#2535	The rise and fall of super-predatory lamniform sharks Mikael Siversson

WEDNESDAY 8 AUGUST 1530 - 1730 continued

25.5 - Session 1 - Geoscience applications for ocean management and also for supporting jurisdictional claims under the United Nations Law of the Sea

1530 - 1730

GeoExpo Hospitality Room 1

Time		
1530	#2536	Marine benthic habitat characterization and mapping coming of age H. Gary Greene (Keynote)
1600	#2537	The MAREANO program in Norway - the role of geology in integrated mapping for ocean management Terje Thorsnes (Invited)
1615	#2538	Animal-borne remote sensing: Modelling the foraging habitat of the Australian fur seal in Bass Strait, Australia Daniel Ierodiaconou (Invited)
1630	#2539	High spatial resolution seabed mapping of the northern Australian continental shelf to inform industry and government Andrew Heap
1645	#2540	Seabed mapping in shallow seas - information for marine management in the Baltic Sea Aarno Kotilainen (Invited)
1700	#2541	Solving the puzzle - collating data on seafloor substrates at European level Anu Kaskela
1715	#2542	Using physical surrogates of marine biodiversity to inform marine park management: a case study from the Carnarvon shelf, Western Australia Scott Nichol

28.3 - Session 4 - Geoscientific mapping, characterisation and conceptualisation of hydrogeological systems

1530 - 1730

Plaza Terrace Room

Time		
1530	#2543	Improving characterisation of hydrostratigraphy in the Great Artesian Basin using hydrochemistry and isotope results Kathryn Harris
1545	#2544	Hydrochemical characteristics and isotopic compositions of brine water in Sua Pan, Botswana Shan Huimei
1600	#2545	Anthropogenic pressure and groundwater quality in heterogeneous and anisotropic aquifer systems Silvia Fabbrocino
1615	#2546	Geohydrological characterization with Remote Sensing and GIS in basaltic rocks, Maharashtra, India. Ashok Tejankar
1630	#2547	The relationship between lineaments intersection frequency and borehole yield in North West Province, South Africa: results from geophysical studies Abera Tessema
1645	#2548	Hydrogeochemical and stable isotope characterization of shallow groundwater system in crystalline basement terrain of Ekiti area, southwestern Nigeria Moshood Tijani
1700	#2549	Digital soil pattern recognition in the lower Namoi valley using numerical clustering of gamma-ray spectrometry data John Triantafilis
1715	#2550	Utilising airborne electromagnetics to map potential seawater intrusion hazard to karstic and fractured rock aquifers in the Darwin Rural Water Control District, N.T., Australia Kok Piang Tan

WEDNESDAY 8 AUGUST 1530 - 1730 continued

30.2 - Session 3 - Natural hazards and climate change

1530 - 1730

Sky Room

Time		
1530	#2551	Impacts of extreme weather events on infrastructure in Norway - the InfraRisk project Anders Solheim
1545	#2552	Australian National Wind Risk Assessment (NWRA): Quantifying wind hazard and risk under current and future climate Bob Cechet
1600	#2553	Snow particle velocity in drifting snow Ning Huang
1615	#2554	Warmer, drier climates result in divergent fire regime responses in two case-study Australian landscapes at contrasting extremes of the moisture spectrum. Karen King
1630	#2555	Palaeomagnetic evidence for the emplacement mechanism of enigmatic boulder deposits, New South Wales: evaluation of the Australian Megatsunami Hypothesis Phillip Schmidt
1645	#2556	Identifying landslide areas in Uganda- results from the "Uganda Geological Mapping Project" Michael Staudt

30.4 - Session 3 - Geohazards in subduction zones

1530 - 1745

Meeting Room S1

Time		
1530	#2557	<i>The past decade of earthquake disasters and the forecasted next great Earthquake in the western Sumatra</i> Danny Natawidjaja (Keynote)
1600	#2558	Towards robust assessment of earthquake hazard in Indonesia Phil Cummins
1615	#2559	Earthquake source parameters for improved seismic hazard assessment in Indonesia Natalie Balfour
1630	#2560	Creating of earthquake hazard map: an effort to mitigate earthquake disaster Cipta Athanasius
1645	#2561	Probabilistic Seismic Hazard Analysis for Pasaman region, Indonesia Rahayu Robiana
1700	#2562	Stress coupling between megathrust earthquakes and volcanic eruptions in New Britain, Papua New Guinea Nick Horspool
1715	#2563	Predicting volcanic flare-up following large earthquakes: Lessons from the 2010 Mw 8.8 Chile earthquake Daniel Tormey
1730	#2564	Site response for two Indonesian intraslab and crustal earthquakes: Tasikmalaya and Kerinci 2009 Indra Gunawan

32.1 - Session 3 - Mineral exploration technologies and methods

1530 - 1730

F1 - Training Room

Time		
1530	#2565	Rapid mineralogical analysis in support of mineral exploration and mine development Brian Curtiss
1545	#2566	3D Alteration Modelling Using Visible-Near Infrared-Short Wave Infrared Reflectance Data Sasha Pontual

WEDNESDAY 8 AUGUST 1530 - 1730 continued

1600	#2567	3Dimensional integration of reflectance spectroscopic, geochemical and geophysical data for efficient mineral exploration Carsten Laukamp
1615	#2568	Micro-scale geochemical and spectral imaging for validation of mineral mapping products Tony Roache
1630	#2569	Outcrop Mapping Using 3D Imaging George Poropat
1645	#2570	Grouped subset selection with application to unmixing mineral spectra Yi Guo
1700	#2571	Processing and modeling of geophysical data and ASTER imagery applied to geological interpretation and mineral exploration in the Alta Floresta Gold Province, MT. Danilo Barbuena
1715	#2572	Hyperspectral data mining technology for uranium exploration Jielin Zhang

33.2 - Session 1 - The early history of Continental Drift and associated subjects 1530 - 1730

Boulevard Meeting Room 2

Time		
1530	#2573	<i>Leading textbooks built the consensus against Wegener's continental drift</i> Allan Krill (Keynote)
1600	#2574	Debating continental drift in Brazil: the ideas of Alberto Betim Paes Leme (1883 - 1938). Silvia Figueiroa
1615	#2575	Quakes and queries: two Japanese geologists/geographers constructing geotectonic theories 1891-1929 Toshihiro Yamada
1630	#2576	1912: The Year the World Discovered Antarctica Chris Turney

34.1 - Session 2 - Geological processes of the construction of Asia 1530 - 1730

Plaza Meeting Room 11

Time		
1530	#2577	Magnetostratigraphic constraints on the rapid emplacement of Emeishan Continental Flood Basalts: implications for the end-Guadalupian environmental crisis Zhenyu Yang
1545	#2578	Late Cenozoic structural deformation and historical earthquakes in the southern Longmenshan Dong Jia
1600	#2579	Structural constraints on post-rift ophiolite emplacement and thrust-fold deformation in Southern Palawan, Philippines: implications to the evolution of the southeastern margin of the South China Sea Mario Juan Aurelio
1615	#2580	Onshore Palawan structures: Implications on the evolution of the South China Sea Kristine Joy Taguibao
1630	#2581	Geology and Tectonics of the East and Southwest Asian Continental Margins Koji Wakita
1645	#2582	Role of the Erlangping Cretaceous Strike-Slip system, Central China Hongyuan Zhang
1700	#2583	Dextral Movement Characteristics of Continental China & Adjacent Areas and its Effect since Cenozoic Ruizhao Qiu
1715	#2584	A synthetic morpho-tectonic map of the Mediterranean Sea Jean Mascle

WEDNESDAY 8 AUGUST 1530 - 1730 continued

35.4 - Session 2 - Ordovician intercontinental correlations: developing global and regional chronostratigraphy

1530 - 1730

Mezzanine Room 8

Time		
1530	#2585	Depositional history and distribution of Ordovician rocks on the Australian Plate Ian Percival
1545	#2586	Ordovician conodont studies - towards a fine-scaled regional biostratigraphy in Australia Yong Yi Zhen
1600	#2587	Darriwilian faunas and biofacies from the Stairway Sandstone, Amadeus Basin, central Australia Kristian Grube Jakobsen
1615	#2588	Towards a fine correlation of the Ordovician in China--a review of latest biostratigraphic and chemostratigraphic studies Yuandong Zhang
1630	#2589	The taxonomy of the pendent didymograptids across the Lower/Middle Ordovician boundary interval in the Yangtze Gorges area, South China Chuanshang Wang
1645	#2590	The Ordovician acritarch biostratigraphical sequence in South China: a preliminary study Kui Yan
1700	#2591	Preliminary investigation of chitinozoans across the Ordovician-Silurian boundary in Zhejiang Province, Southeast China Peng Tang
1715	#2592	Conodont biostratigraphy across the upper Dapingian - Darriwilian interval based on the Maocaopu section, South China Svend Stouge

35.5 - Session 1 - The Devonian-Carboniferous-Permian Correlation chart

1530 - 1730

Plaza Meeting Room 1

Time		
1530	#2593	<i>Completion of the Devonian-Carboniferous-Permian Correlation Chart</i> Manfred Menning (Keynote)
1600	#2594	Multiproxy approach to high-resolution stratigraphy of important Devonian and Carboniferous boundary intervals Ondrej Bábek (Invited)
1615	#2595	<i>Subdividing the Mississippian (Carboniferous) - state of the art and outlook</i> Markus Aretz (Keynote)
1645	#2596	Chronostratigraphic Standard of the Serpukhovian Stage Svetlana Nikolaeva (Invited)
1700	#2597	<i>Carboniferous System and stage boundaries: the present state and future</i> Barry Richards (Keynote)

36.6 - Session 1 - Minerals and related phases

1530 - 1730

Plaza Meeting Room 5

Time		
1530	#2598	Estimation of colour development potential of colourless quartz after irradiation Fernando Soares Lameiras
1545	#2599	Anomalous temperature-quenching effects on cathodoluminescence in magnesite Hirotsugu Nishido
1600	#2600	<i>Biomineralization and bioapatites</i> H. Catherine Skinner (Keynote)

WEDNESDAY 8 AUGUST 1530 - 1730 continued

1630	#2601	Mineralogy of diamonds from Roosevelt Indigenous Area, Rondônia State, Brazil, and implications for their origin and genesis Marcos Paulo Borges
1645	#2602	Study on the Rare Copper-iron Minerals with Pelletoidal or Tubular Texture in Emeishan Basaltic Vugs Liangju Zhang
1700	#2603	Quatarons and formation of crystals and amorphous materials Askhab Askhabov
1715	#2604	<i>The new minerals from Jaguaraçu, Minas Gerais, Brazil: End-member formulae.</i> Daniel Atencio (Keynote)
1730 - 1830		POSTER SESSION

Poster Session - Wednesday - Mezzanine Level

Symposium #	Poster Board	Presenter	Title
1.1	#001	Vegar Bakkestuen	The relation between bio- and geodiversity
	#002	Margaret Brocx	A virtual tour exploring Wolfe Creek Meteorite Crater's geoheritage, cultural and educational values.
	#003	Margaret Brocx	A classification of sites of geoheritage significance: geosites to geoparks
	#004	Ari Brozinski	Realizing science popularization and geotourism in Finland, Northern Europe
	#005	Solomon Buckman	Geodiversity in National Parks of the Illawarra and South Coast, NSW, Australia
	#006	Edmund Bernard Joyce	Australia's first geopark: the Kanawinka volcanic Geopark of Southeastern Australia
	#007	Molly Kibalama Bakka Male	Geoheritage in the Pearl of Africa- Uganda (Geoheritage with potential for increased geotourism and empowerment for local people.)
	#008	Kuen Wai Lai	Discovery of palaeovolcanic plugs and its significance in Hong Kong, China
1.3	#009	Moon-Young Choi	The role of visitors' questions in establishing intersubjectivity between visitors and exhibits at a Natural History Gallery
	#010	Ian Jackson	OneGeology: a global tool for geological data provision and outreach
	#011	Christopher Keane	Renewing the geoscience workforce - critical issues and approaches for the post-2025 workforce
	#012	Francesca Luger	The geological landscape in the filmic communication: a new way in science popularization
	#013	Jennifer Nocerino	Reaching one student at a time
	#014	Jennifer Nocerino	Geoscience internships in national parks and other public lands in the U.S.
	#015	Jeffrey Ryan	Communicating on Climate change in vulnerable areas: strategies of the Coastal Areas Climate Change Education (CACCE) Partnership for Florida and the Caribbean
	#016	Joanne Venus	Improving communication between geoscientists and non-scientists: A YES Network perspective
2.4	#017	Satoshi Murao	Government versus governance for mineral development: a case study on the bauxite issue in Vietnam
	#018	Satoshi Murao	Culture of the Informal Mining Sector and its Implications on the Applicability of Ethical Jewelry: Key Consideration Points from the Case of Paracale, Camarines Norte, Philippines
	#019	Vaclav Nemec	Geoethics - past, present and future
3.2	#020	Xiaoqiang Li	The early agriculture and its impact on landscape in NW China
	#021	Xiaoyan Ruan	Lipid biomarker records indicative of lacustrine eutrophication and climate change in Central China
3.5	#022	Hujun Gong	The particle size features of detrital zircon and its paleoenvironmental implications from Luochuan section, Chinese Loess Plateau
	#023	David Greenwood	Climate and terrestrial biotic change across the PETM in the North Sea.
	#024	Ye Liu	Analysis of accuracy and long-term stability of determination of trace elements in geological samples with ICP-MS

Poster Session - Wednesday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
	#025	Julie Palmer	Oligocene to Miocene Paleogeography of King Country, New Zealand, and its implications to the late Oligocene-early Miocene drowning event
	#026	Werner Piller	Environmental changes on decadal to centennial scale of Late Miocene lake sediments (Tortonian, Lake Pannon, Central Europe) linked to solar cycles
	#027	Kohki Yoshida	Intense chemical weathering recorded in the Upper Miocene Porcelain Clay Formation in central Japan
	#028	Leping Yue	Palaeomagnetic chronology and paleoenvironmental records of late Neogene Wuqi paleolake in northern Chinese Loess Plateau
4.2	#029	David Cohen	The soil geochemical atlas of Cyprus – controls on rare earth element patterns
	#030	David Cohen	The soil geochemical atlas of Cyprus – distribution of total and organic carbon
	#031	Patrice De Caritat	Comparison of two continental-scale geochemical surveys: what lessons for global geochemical mapping can we learn?
	#032	Alethea Ernandes Martins Sallun	Establishment of natural geochemical background values in the State of São Paulo, Brazil
	#033	Mauro Geraldies	Using plasma spectrochemistry for the analysis of hazardous substances in the marine environment; The Sepetiba Bay, Rio de Janeiro (Brazil).
	#034	Qingye Hou	Quantifying the heavy metal inputs to agricultural soils in Peking, China
	#035	Jaana Jarva	The use of soil geochemical baselines in land use planning in Finland
	#036	Christopher Johnson	Mapping the chemical environment of London, UK – an important contribution to understanding national levels of normal background contaminant concentrations
	#037	Christopher Johnson	Geochemical atlas of European ground water: bottled water
	#038	Christopher Johnson	Regional Geochemical Mapping in Nigeria: results from the collaborative project between the Nigerian Geological Survey Agency and the British Geological Survey
	#039	Lev Krinichkin	Geochemical map of Russia scale 1:2 500 000
	#040	David Smith	Maps of the mineral content of soils of the conterminous United States
	#041	David Smith	Continental-scale soil geochemistry from the North American Soil Geochemical Landscapes Project
	#042	Katherine Stoate	In between fresh rock and fresh air: landscape geochemistry of Kangaroo Island
	#043	Raphael Vicq	Geochemistry mapping: purpose of stream sediment mopping in two tropical basins, Brazil
	#044	Malte Willmes	The bioavailable Sr isotope reference database of France - a tool for archaeology and forensic sciences
	#045	Weihai Xu	Trace metals in atmospheric particular matters over the northern South China Sea (SCS): regional sources and long-range atmospheric transport
	#046	Zhongfang Yang	An introduction: the Multi-purpose Regional Geochemical Survey and Evaluation in China

Poster Session - Wednesday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
	#047	Shuang Zhang	The prediction of soil geochemical baseline with partition and multiple regression analysis: A case study in Jiangnan plain, China
4.3	#048	Mafuza Maya	Evaluation of trace metal pollution in soils affected by gold mining in the KOSH region: An Index analysis approach.
	#049	Yongzhang Zhou	Study on Prediction of Element Accumulation in Soils and Early-Warning of Catastrophic Change of Eco-Environment in Pearl River Delta Economic Zone (South China) Using Geochemical and Geomathematical Methods
5.2	#050	Dana Capova	Integration of the Digital Archive into the Geological Information System of the Czech Geological Survey
	#051	Dana Capova	The Virtual Museum of the Czech Geological Survey
	#052	Simon J D Cox	Publishing the geologic timescale as linked data
	#053	Jaehong Hwang	A Geological Ontology System based on the OGC GeoSPARQL and W3C Time Ontology
	#054	Daisaku Kawabata	Geological tools and Services for Mobile Telephone based on OGC Standards
	#055	Ollie Raymond	Australian Stratigraphic Units Database – lexicon of Australian stratigraphy
	#056	Stephen Richard	A Geologic Unit Scheme for Regional Geologic Map Integration
	#057	Helmut Schaebe	A spatial data infrastructure for multidimensional geoscience data and geomodels
6.2	#058	Mauro Cacace	Hot and saline spring behaviour in the Taupo Volcanic Zone (New Zealand) and in the Northeast German Basin (Germany)
	#059	Lucie Capova	Enhanced Geothermal Systems in Europe - conditions, perspectives and case studies
	#060	Helen Gibson	3D geology and heat flow modelling for exploration and characterisation of EGS energy plays – a case study from the north Perth Basin, Australia
	#061	Annette E. Goetz	Assessment of the geothermal potential of the Pannonian Basin: an outcrop analogue study of the sedimentary series of the Buda Mts., Hungary
	#062	Annette E. Goetz	Thermo-physical and facies-related characterization of the Upper Jurassic geothermal carbonate reservoirs in the Molasse Basin, Germany
	#063	Alan Jones	IRETHERM: Research and Exploration Challenges in Assessing Ireland's Deep Low-Enthalpy Geothermal Energy Potential
	#064	Alan Jones	Three-dimensional (3D) geophysical-petrological modelling of the lithosphere: assessing the geothermal potential of Ireland
	#065	Balazs Kobor	Long-term hydraulic analysis of geothermal reservoirs - a case study
	#066	Stefano Lo Russo	Numerical modelling and experimental evidences of horizontal ground heat exchangers (HGHEs) system near building foundations
	#067	Pavel Pushkarev	Development of magnetotelluric method for geothermal resources exploration
	#068	Klaus Regenauer-Lieb	Australia's first steps towards "Geothermal Cities"
	#069	Judith Sippel	Exploration of geothermal reservoirs in the city of Berlin – a pilot study

Poster Session - Wednesday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
	#070	Peter Smolka	The End of the CO ₂ -Age - to avoid Reoccurrence of unaffordable neogene Climates
	#071	Peter Smolka	The End of the CO ₂ -Age - with first steps to Earthquake-Prevention as Side-Effect
	#072	Valentina Svalova	Geothermal Energy Use and Geothermal Resources of Russia
	#073	Nicholas Timms	Revealing faults in the Perth metropolitan area, Western Australia: Implications for groundwater systematics
	#074	J. Florian Wellmann	Interdisciplinary methodology for optimal geothermal resource estimations: case study of the Perth Basin, Australia
	#075	Akihiro Yamashita	Volcanic rocks and hydrothermal fluid in geothermal area around Tampomas volcano, West Java, Indonesia
7.1	#076	Nadezhda Arkhipova	Rare-earth deposits in Russia: new types and criteria for rich ore formation
	#077	Thomas Dittrich	Gallium – Geological vs. technological availability
	#078	Anatoly Dmitrievskiy	Prospects in growing production of rare and rare-earth metals
	#079	Jacob Hanley	Magmatic enrichment of uranium, thorium, and rare earth elements in late Paleozoic rhyolites of southern New Brunswick, Canada: evidence from silicate melt inclusions
	#080	Maksud Isokov	Diversification of raw materials base industry in the Republic of Uzbekistan
	#081	Kankun Jin	Li concentration mode in coal seam # 11 from the Pingshuo Mining District, Ningwu Coalfield, northern China
	#082	Kankun Jin	Concentration of gallium in the No. 5 seam of the Carboniferous coals, Geguan Mine, north China
	#083	Elena Kalish	Enhancing investment attractiveness of rare-metal deposits at the expense of ore processing depth
	#084	Alexander Kremenetskiy	New genetic type of Re-Mo-U deposits: geology, geochemistry, mineralogy, SHRIMP-U-Pb dating
	#085	Martiya Sadeghi	Preliminary result on Rare Earth Elements distribution in Sweden
	#086	Hassan Seadati	Studying of Neogen terrigenous – evaporate exposures in order to Lithium exploration in Northeast of Iran
	#087	Edmund Sides	The Çanakli REE-bearing pyroclastic mineral sand deposit, Isparta district, southern Turkey
	#088	Kotaro Yonezu	Niobium and Tantalum Mineral Resource Potential in Abu Rusheid, South Eastern Desert, Egypt
8.3	#089	Glauco Angeli	Application of airborne geophysical survey for geologic interpretation and drill hole planning in the eastern of Gandarela syncline, Minas Gerais – Brazil.
	#090	Jianguo Chen	Gravity and Magnetic Anomaly Separation Based on Bidimensional Empirical Mode Decomposition
	#091	Valentina Filatova	Tectonophysical conditions of magma feeding channels formation in the Archaean basement of the north-eastern Baltic Shield
	#092	Yule Hu	To Meet The Scientific Goals Of Scientific Drilling Is Inseparable From Advanced Drilling Technology
	#093	Xiu Li	Research progress of the transformation from TEM to pseudo-wave
	#094	Peter Milligan	Magnetic and gravity datasets of continental Australia

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	#095	Pavel Pushkarev	Electromagnetic exploration for gold in Magadan region (Eastern Russia)
	#096	Gary Reed	Using Potential Field Inversions to assist with Alteration Mapping in the Punt Hill Region of South Australia.
	#097	Evgeny Solovyev	The deep structure of South Verhoyanye (north-east of Russia)
	#098	Herve Theveniaut	Soil susceptibility mapping as a proxy for exploration
	#099	Daniel Wedge	Visualising Full Tensor Gradient Data
9.1	#100	Jonathan Aitchison	Relationship between the Yarlung Tsangpo suture zone and the Gangdese metallogenic belt, Tibet
	#101	Hooshang Asadi Haroni	Conceptual characteristics and exploration criteria at three major type of gold deposits in Zagros belt of Iran
	#102	Mario Juan Aurelio	Structural influences over a high-grade, gold-only mineralization below Sto. Tomas II Cu-Au porphyry, Tuba, Benguet, Philippines
	#103	Jesús Castro-Mora	Epithermal and Porphyry mineralization in Taviche Mining District, Central Oaxaca, Mexico: a Telescoped system, geochemical and isotopic contribution
	#104	Maria Lourdes Faustino	Transtensional tectonics and caldera structures in and around the Boyongan-Bayugo Cu-Au porphyry deposit, Surigao del Norte, Philippines: implications to mineral exploration
	#105	Dmitriy Gurevich	Vortex metallogeny: geocyclones as the principal tectonic systems controlling porphyry and epithermal deposits
	#106	Zengqian Hou	The Dexing deposit in east China: An intra-continental giant porphyry Cu-Au deposit formed in a Mesozoic tensional/compressional transform regime
	#107	Alexander Kremenetskiy	Classification of porphyry copper and molybdenum deposits with account for Re content in their molybdenite
	#108	Robert Mccarroll	Comparative mineralogy, alteration styles, and modelling of deposits within the Ojolali Epithermal Gold-Silver prospect, Sumatra, Indonesia
	#109	Petr Mixa	Genesis of the epithermal gold mineralization in Costa Rica, Cordillera de Tilarán
	#110	Juan Carlos Molano	Mineralogical characterisation and genetic aspects of some gold mineralisation in Colombia
	#111	Juan Carlos Molano	Evolution of Formation Environments in the Marmato Gold Mine, Colombia, and Implications of the Pantano Fault on the Characteristics of the Mineralizing Fluid
	#112	Thomas Monecke	Hypogene and supergene tellurium-bearing ores at the Moctezuma epithermal deposits in Sonora, Mexico
	#113	Thomas Monecke	Mineralogy and geochemistry of shale as a vector to ore: a case study at the Lagunas Norte high-sulfidation Au deposit, Peru
	#114	Thomas Monecke	Alunite and jarosite alteration ages at the Veladero high-sulfidation epithermal Au-Ag deposit, Argentina
	#115	Sergey Nikitin	The various roles of geological structures in Amur area (Russian-Chinese region)
	#116	Todor Serafimovski	The porphyry ore systems related with small Tertiary volcanites in the Serbo-Macedonian masive, SE-Europe

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	#117	Todor Serafimovski	The Kadiica porphyry copper deposit, Eastern Macedonia, SE-Europe
	#118	Nadezhda Shatova	Petrography and Geochemistry of Eruptive Breccias from the Ryabinovoe Au-Cu Porphyry Deposit (South Yakutiya)
	#119	Akhmetzhan Urdabayev	The accretional-collisional orogen of Kazakhstan: Structure, Development, Metallogeny
	#120	Hongtao Zhang	More on the porphyry copper deposit series in China
	#121	Vadim Zvezdov	Porphyry ore-magmatic systems in volcano-plutonic belts of Eastern Russia
9.8	#122	Zsolt Benko	Felsic dykes along the Grano-fault zone in the Partridge River Intrusion, (Duluth Complex, USA) and their significance in hydrothermal metal redistribution
	#123	Zsolt Benko	Halogen-geochemistry of apatite from Cu-Ni-Pge mineralized intrusions of the Duluth Complex: exsolution of Cl-bearing fluids in the waning stages of crystallization
	#124	Adam A. Garde	Archaean epithermal gold mineralisation at Qussuk, North Atlantic craton, Greenland, preserved at upper amphibolite-facies grade
	#125	Quanru Geng	Preliminary study on the Tethyan evolution and related metallogenesis of the Bangong- Nuijiang zone and adjacent regions
	#126	Bernhard Hochwimmer	The Unicorn Climax-type Mo porphyry: exploration in a newly discovered Australian Mo province
	#127	Maxim Klochkov	Geodynamic position of mineral deposits of Central Kazakhstan
	#128	Dede Kolndreu	Some aspects about tectonic structural system which controls several sulphide copper ore deposits in Mirdita region of Albania
	#129	Evgeny Korago	Major stages of ore genesis and Caledonian orogeny in Russian Arctic metlogeny
	#130	Nicholas Lyons	Structural control of the Kanmantoo copper deposit
	#131	Vicente Mendoza Sanchez	Guayana shield geological evolution an mineral resources
	#132	Aberra Mogessie	Occurrence of Greenockite and Parkerite in the Pd enriched granitoid footwall of the South Kawishiwi Intrusion, Duluth Complex, Minnesota, USA
	#133	Thomas Seifert	New investigations of the Sn-polymetallic mineralization of the "Felsitzzone" at the northern rim of the Freiberg ore district, Erzgebirge, Germany
	#134	Kelly Sharrad	The Basil Cu-Co Deposit, Huckitta project area, Harts Range, N.T., Australia: a new genetic type of mineral deposit?
	#135	Xiaoming Sun	Characteristics and Metallogenic Model of Ailaoshan Cenozoic Orogenic Gold Belt, China
	#136	Lyudmila Veremeeva	Sources of associated gold in Ti-Zr placers
	#137	Dmitry Zhirov	Geological and isotope-geochemical forecast criteria of the PGM and/or Cu-Ni for mafic-ultramafic layered intrusions of the LIPs of Pre-Cambrian Shields
11.4	#138	Abeeb Awotunde	An improved particle swarm optimization for history-matched reservoir parameters

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	#139	Bahram Habibnia	A comprehensive image log analysis of reservoir fractures in Ahvaz oil field, SW of Iran
	#140	Lianhua Hou	The Weathered Volcanic Crust and Its Petroleum Significance
	#141	Piotr Kasza	Testing the petrophysical parameters of reservoir rocks - a key factor for selection of effective hydrocarbon reservoir stimulation technology - case study
	#142	Irina Kushmar	Forecast of oil and gas perspective objects in carbonate deposits of the Siberian platform, based on integration of detailed petrophysical and seismic geological modeling
	#143	Chengyan Lin	Remaining oils distribution in old oilfields: Enrichment of remaining oils in underwater distributary channel crotches
	#144	Guizhen Liu	The characteristics of paleokarst carbonate reservoir: examples from Ordovician strata of Tabei area: Tarim basin, NW China
	#145	Jinglan Luo	Volcanic reservoir origin and chronology-A case study from the Lower Cretaceous in Songliao basin and the Carboniferous in Junggar basin in China
12.2	#146	Chuanyan Huang	The Analysis of continental shale gas potential of Paleogene in Bohai Bay Basin of eastern China
	#147	Wenzheng Jin	Characteristics of Shale Gas in the Upper Yangtze Area
	#148	Grzegorz Lesniak	Tight gas reservoirs in Carpathians
	#149	Irena Matyasik	Shale oil in Poland – chances for new unconventional resources
	#150	Oleg Shvydkyy	Famennian-Tournaisian-Lower Visean shale sequences as prospective shale gas plays for the Dnieper-Donets basin, Ukraine
	#151	Nadezhda Tsvetkova	Shale Oil in Russia
	#152	Sergii Vakarchuk	Shale Gas Opportunities in Ukraine: Geological Settings, Reserves Assessment and Exploration Problems
	#153	Hongyan Wang	Extraction of large-sized oil shale by sub-critical water
	#154	Qian Yu	Distribution and control mechanism of organic-enriched shale in Northern Guizhou, China
	#155	Hui Zhang	Distribution Characteristics of the Triassic Yanchang Formation Chang 7 Member Oil Shale and Resource Potential of Shale Gas, Ordos Basin
	#156	Jingzhou Zhao	Understanding the conception, classification and resource potential of unconventional petroleum
13.3	#157	F. Javier Hernández-Molina	A stratigraphic stacking pattern model of the Scan Basin (Southern Scotia Sea, Antarctica): tectonic and paleoceanographic implications
	#158	F. Javier Hernández-Molina	Sandy contourite terrace in the Gulf of Cadiz: morphosedimentary characteristics and oceanographic implications
	#159	F. Javier Hernández-Molina	Evidences of contouritic influence in the Alboran Sea sedimentation (SW Mediterranean Sea)
	#160	F. Javier Hernández-Molina	Contouritic features along the northwestern Iberian continental margin and abyssal plain: the local influence of regional water masses in a down-slope dominate margin
	#161	Yiqun Liu	Primary Dolostone Related to Exhalative Hydrothermal Activities was found in Santanghu area, Xinjiang, China

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	#162	Hongjun Qu	The characteristics of Middle Ordovician contour current deposits and its geological implication at the south margin of Huabei block, China
	#163	Nataleigh Vann	Rift basin, slope and basin-floor turbidites of the Neuquen Basin, Argentina
	#164	David Van Rooij	Biscay canyon ecosystems at the interface with the Mediterranean Outflow Water: alongslope versus downslope drivers
13.4	#165	Mohammad Hossein Adabi	Geochemical characterization of the Sarvak Formation reservoir rocks in the sequence stratigraphic framework, Fars area, Southern Iran
	#166	W. Burleigh Harris	Standardizing texture, facies codes, and graphic logs for interpreting process-generated stratigraphic sequences
	#167	Simon Lang	A new sequence stratigraphic framework for the North West Shelf, Australia
	#168	Airong Li	Accumulation models of Yanan delta in Ordos Basin, China
	#169	Longwei Qiu	A study on a tight reservoir and its densification of Permo-Carboniferous sandstones in Daniudi gas field, Ordos Basin, China
	#170	Roman Semyrka	Petrophysical parameters of the Zechstein Main Dolomite in various facies in the Polish Lowland from the porosimetry
14.3	#171	Mamdouh M. Abdeen	Post-Pliocene NNE-oriented Gulf of Aqaba-related sinistral wrenching in the Gulf of Suez rift, Wadi Araba, Sinai Peninsula, Egypt
	#172	Marília Aguiar	The Agua Bonita Basin, an Early Paleozoic seaway in central Brazil
	#173	Homoud Alanzi	Neogene evolution of the Intra-shelf Malita Basin, Bonaparte Shelf, NW Australia.
	#174	Naira Alvarenga	Eastern Gondwana breakup, a piece of the puzzle: Tanzania offshore segmentation constraints.
	#175	Leonardo Corrêa Gomes	Emplacement of the Serra do Mar Dyke Swarm from Early to Late Cretaceous, onshore of Santos Basin, southeastern Brazil
	#176	Nicolas Flament	Asymmetry of the margins of the South Atlantic from geodynamic models of lithospheric deformation and mantle convection
	#177	Sarah Goyen	Structural and sedimentological evolution of an incipient transform continental margin: An example from the Valle Calamajue, Gulf of California, Mexico
	#178	Lakshminarayana Guddanti	Multiple Episodes of Sedimentary Basin development along the Godavari rift system and their significance in evolution of east Gondwanaland
	#179	Peter Japsen	Episodic burial and exhumation history of NE Brazil after opening of the South Atlantic
	#180	Galina Kirillova	The Bureya Basin as a fragment of the East Asian transform passive continental margin (Far East, Russia)
	#181	Romulo Machado	Strike slip faults on the Parana Basin, Southern Brazil
	#182	Marion Mercier De Lépinay	Structure of the conjugate margins of the northern equatorial Atlantic (Guinea and Demerara Plateaux to St Paul Fracture Zone)

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	#183	Jennifer Totterdell	The structure of Australia's southern rifted margin: basement architecture, rifting processes and basin development
15.4.01	#184	Yan Chen	A more plausible mechanism for the Meso-Cenozoic continental extension in East Asia
	#185	Yongqing Chen	Application of Bi-dimensional empirical mode decomposition (BEMD) in extraction of gravity anomaly originated from mantle swell and sags within the western Shandong Uplift Block, Eastern China
	#186	Alexey Didenko	Possible causes of quasiperiodic variations in geomagnetic reversal frequency and $^{87}\text{Sr}/^{86}\text{Sr}$ ratios in marine carbonates through the Phanerozoic
	#187	Joao Duarte	Are subduction zones infecting the Atlantic? Insights from the Southwest Iberia Margin
	#188	Fausto Ferraccioli	Dynamic Topography effects on the Antarctic continent
	#189	Woohan Kim	A new method to determine accurate hypocentral parameters in the media with a 3-D descending slab using a genetic algorithm: Seismicity and 3-D velocity structure within the descending slab beneath central Japan area
	#190	Zheng-Xiang Li	Large-scale and rapid vertical continental movements due to the eclogisation of a flat-subducted oceanic plateau in Mesozoic south China
	#191	Chiyang Liu	Time limit and process of significant regional tectonic responses to the Tibet Plateau evolution, China
	#192	Kara Matthews	Unravelling the Late Cretaceous to present-day opening of the Southwest Pacific using coupled plate tectonic-mantle convection models
	#193	Chongjin Pang	Sedimentary facies analysis of a latest Triassic to early Jurassic shallow marine deltaic succession in northern Guangdong Province, South China: consequence of eclogisation and foundering of a flat-slab?
	#194	Kirill Staroseltsev	Structural and material complexes in the southern Siberian platform basement
	#195	Viacheslav Staroverov	Main phases of geodynamic evolution in South-East of Russian Platform in connection with the oil and gas potential
	#196	Ratul Talukdar	Drainage behavior in Jia Bharali catchment and evolution of Arunachal Himalaya, India
	#197	Shimin Zhang	Uplifting mechanism of the Longmenshan mountain in the eastern margin of Tibetan Plateau constrained by geomorphic and geologic evidences
	#198	Mehraj Aghazadeh	U-Pb age dating of Cenozoic plutonism in the Arasbaran magmatic zone, NW Iran
	#199	Abbas Babaahmadi	Geometry and kinematics of the Demon Fault (New England Orogen, eastern Australia): evidence for Mesozoic dextral transpression in the eastern Gondwana margin
	#200	Abbas Babaahmadi	Geomorphic evidence on potential activity of the Saveh Quaternary restraining zone, West Central Iran
	#201	David Boutelier	Stress and strain patterns generated by oceanic subduction along a seaward-convave plate boundary
	#202	Brigida Castro De Machuca	Metamorphic evolution of ductile shear zones related to the Famatinian orogeny, Sierra de La Huerta, Western Sierras Pampeanas, NW Argentina

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	#203	Shunyou Cheng	Deep velocity structural imaging of the structural zone in the Helan-Liupan-Ordos's western margin, central China
	#204	Shunyou Cheng	Stress field characteristics of the faults in the southern Longmenshan orogen, SW China: Evidence of magnetic fabrics
	#205	Michael Gurnis	Dynamics of subduction initiation with different plate tectonic and volcanic expressions
	#206	Lijuan He	Numerical modeling of the effect of lithosphere-asthenosphere interaction on the overriding lithosphere in a subduction zone
	#207	Wonju Jin	The occurrence and structure of pseudotachylyte rocks in the fault zones of Daeheuksando Island, Southwest Korea
	#208	Leo Jonda	Emplacement of ophiolite in Papua New Guinea; New Field Data.
	#209	Alan Jones	Crustal and lithospheric structures of Atlas Mountains, Morocco: constraints from magnetotelluric data
	#210	You Hong Kihm	Geological structures of Gondwana sequence in Suai, East Timor
	#211	Mark Munro	Are porphyroblast inclusion trails a reliable representation of switches in tectonic mode?
	#212	Satoshi Nakae	Accretion of fragmented oceanic plateau to the low-grade metamorphic complex of Okinawa Island in Ryukyu arc, Japan
	#213	Silvio Seno	Alps VS Apennines: "Fight club" under an alluvial plane?
	#214	Urszula Stepien	Calcite veining in Chęciny Anticline as indicator of Variscan strain ratio in Holy Cross Mts. (Poland)
	#215	Roberto Weinberg	A previously unrecognised major orogenic front in Argentina
	#216	Xiaojun Wu	Analogue modelling of fold-and-thrust structures based on particle image velocimetry (PIV)
	#217	Zaiping Yu	Orogenies of the Qinling composite orogen, central China
	#218	Hongren Zhang	Yanshan movement: a peculiar tectonic event
	#219	Ke Chen	The northern piedmont of Tianshan: a case study of an immature range front
	#220	José Julián Esteban	Pre-Miocene extensional tectonics: insights from the Malaguide-Alpujarride detachment (western Betic Cordilleras, southern Spain)
	#221	Rita Katharina Kraus	Evidences of a 'transcurrent orogen' in the Northern Central Apennines, Italy
	#222	Fuwen Tan	Discovery of the Pre-cambrian basement in Qiangtang basin, Tibet, and its geological significance
	#223	Gaetano Ortolano	Changes of microstructure, mineralogy, chemistry and anisotropic properties during progressive strain in the Kavala mylonitic shear zone (Rhodope Massif, NE Greece): advancement after a synergistic approach
	#224	Ghazaleh Razaghian	Studying Iran Tectonic Status Based on Seismic Data
	#225	Ghazaleh Razaghian	The Effect of Shear Zones on Structural Evolution of Folds in Zagros Fold-thrust Belt (with a special Emphasis on Shamilou Anticline)
	#226	Jianqiang Wang	Uplifting characteristics since late mesozoic of Qinling orogen belt, china

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	#227	Chris Yakymchuk	Change from wrench to transtension detected in O and Hf isotope signature of zircon in Cretaceous anatectic granites, West Antarctica
	#228	Hidetoshi Hara	Provenance analysis of an accretionary complex related to Paleo-Tethys subduction within the Inthanon Zone, northern Thailand
	#229	Liangshu Shu	Principal features of tectonic evolution of the South China Block
	#230	Guo-Li Yuan	Determination of Indosinian Accretionary Orogenic Belt of Southern Qiangtang (China)
	#231	Samuel Brooke-Barnett	Geophysical investigation of the structure of the Texas Orocline under the sedimentary cover.
	#232	Richard Glen	Formation of oroclines in the New England Orogen, eastern Australia
	#233	Tetsumaru Itaya	Tectono-metamorphic evolution of high P/T and low-P/T metamorphic rocks in the Tia complex, southern New England Fold Belt, eastern Australia: Insights from K-Ar chronology
	#234	Chris Klootwijk	Middle-Late Paleozoic Australia-Asia convergence and Alice Springs Orogeny-related tectonic extrusion
	#235	Pengfei Li	Structural observations from the Texas Orocline: implications for the mechanism of oroclinal bending in the New England Orogen, eastern Australia
	#236	David Purdy	New constraints on Triassic magmatism in the northern New England Orogen, eastern Australia
	#237	Uri Shaanan	Unbending the New England Oroclines (eastern Australia)
16.1	#238	Francoise Chalot-Prat	An experimental study of liquid compositions in equilibrium with plagioclase + spinel Ilherzolite at low pressures (0.75 and 0.5 GPa)
	#239	Ling Chen	An integrated image of the lithosphere-asthenosphere boundary and intra-lithospheric discontinuity beneath the North China Craton
	#240	Alan Jones	Lithosphere-asthenosphere structure of an Archean craton and adjacent mobile belt revealed from 3D inversion of magnetotelluric data: example from southern Congo craton in northern Namibia
	#241	Alan Jones	Geophysical and petro-physical investigations of the lithosphere-asthenosphere boundary in central Tibet
	#242	Lavinia Tunini	Deep structures of the Alpine-Himalaya collision in the Zagros Mountains and Tibetan Plateau. A combined geophysical and petrological study.
	#243	Yang Wang	Lithosphere thermal state and rheology of the Tibetan plateau and its adjacent area
16.5	#244	Srinagesh Davuluri	Crustal structure of the Indo-Gangetic Plains inferred from Receiver function analysis
	#245	Qingyun Di	Three-dimensional Integral Equation Inversion
	#246	Mingming Jiang	High-resolution lithosphere structure beneath the North China craton from teleseismic Rayleigh wave tomography
	#247	Hongyi Li	Crustal and upper mantle velocity structure in the northeastern Tibetan Plateau

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	#248	Alexandr Salnikov	The Earth's crust deep structure of Eastern Eurasia on evidence derived from deep seismic sounding
	#249	Erdinc Saygin	The Crustal Structure of Indonesia from Seismic Noise Tomography
	#250	Ward Stolk	New Methodology for regional crustal Models, applied to Asia
	#251	Ward Stolk	Moho Depth and crustal Velocities in Asia
	#252	Liangshu Wang	The Crustal and Upper Mantle Structure in Eastern of South China
	#253	Mallory Young	A Bayesian inversion for a 3-D shear velocity model of the Tasmanian lithosphere from ambient seismic noise.
	#254	Liang Zhao	Interplay of lithosphere and asthenosphere beneath eastern China: constraints from seismic observations
17.3	#255	Kathleen Grey	The temporal distribution and significance of axial zones in conical stromatolites
	#256	Sarah Slotznick	A test of global methanotrophy in the 2.72 Ga Tumbiana stromatolites
	#257	Kenichiro Sugitani	Life cycle and taxonomy of Archean flanged microfossils from the Pilbara Craton, Western Australia
	#258	Shuhei Teraji	Relatively deep ocean sedimentary sequence in the Komati section of the 3.2 Ga Mapepe Formation in the Barberton Greenstone Belt, South Africa.
	#259	Martin Van Kranendonk	A 2.3 Ga sulfuretum at the GOE: microfossil and organic geochemistry evidence from the Turee Creek Group, Western Australia.
17.4	#260	Junqi Wei	Metamorphism and formation of the Huangling crystallized basement, Yangtze craton
	#261	Irina Zhulanova	The Eoarchean rocks of the North-Eastern Russia: geochronology and geochronometry
17.5	#262	Shoufa Lin	Synchronous vertical and horizontal tectonism at the late stages of Archean cratonization as an important process for gold mineralization: evidence from the Superior craton
18.3	#263	Daniel Asiedu	Provenance of fine-grained metasedimentary rocks from the Kumasi Basin of the Paleoproterozoic Birimian Supergroup, Southwest Ghana
	#264	Victor Balagansky	Tectonics of detached middle crust in the Palaeoproterozoic Lapland-Kola collisional orogen, NE Baltic Shield
	#265	Victor Balagansky	The Paleoproterozoic Orekhov - Pavlograd compressional zone, Ukrainian Shield: structural geology, lithology, geochemistry, metamorphic petrology, age and geological prehistory
	#266	Ginaldo Campanha	Collisional oblique tectonics of the southern Ribeira Belt (SE Brazil)
	#267	Xiaofeng Cao	Magmatic activities and tectonic evolution of Xinjiang Precambrian Kuluketage block, NW China
	#268	David Foster	Proterozoic Accretion of the Western Laurentian Margin in the Realm of Supercontinents
	#269	Zhenyu He	Neoproterozoic granulite facies metamorphism in the northeastern margin of Tarim Craton and implications for Rodinia assembly
	#270	Naresh Kochhar	The Malani Supercontinent: Siberia, Mongolia, Kazakhstan connection during Late Proterozoic

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	#271	Yong Il Lee	Detrital zircon U-Pb geochronology of the Jangsan Formation (?Precambrian) in the northeastern Okcheon belt, Korea and its implications for depositional age, provenance, and tectonic setting
	#272	Herve Theveniaut	Paleoproterozoic evolution of Senegal in the Birimian framework
	#273	Wei Wang	Age and provenance of the Precambrian sedimentary sequences in the eastern Jiangnan Orogen, South China: new insights into the crustal and tectonic evolution
	#274	Bin Xia	Origin of the Central Tianshan-Yili microplate, NW China: Evidence from detrital zircon analysis from SW Tianshan subduction melange
	#275	Fuguang Yin	The Geological Records of the Early-Middle Mesoproterozoic Orogeny in Southwestern Yangtze Block, China
	#276	Jinhai Yu	Long-time linking of Cathaysia Block, South China with East Gondwanaland from Paleoproterozoic to early Paleozoic
	#277	Wenbin Zhu	Neoproterozoic mafic dyke swarms in the northern Tarim Block of northwest China and its relationship to the breakup of Rodinia
21.5	#278	Ram Chandra	Palaeoproterozoic mafic dyke intrusions in Bundelkhand and Bastar cratons in Central/north India and implications for sub-continental lithosphere mantle
	#279	Mauro Geraldés	Vitoria-Trindade chain: geochemistry and petrology of seamounts, Trindade, and Martin Vaz islands
	#280	Tim Ivanic	A dramatic shift from anhydrous to hydrous magmas in the Yilgarn Craton (2810-2800 Ma)
	#281	Abdolreza Jafarian	Assimilation and fractional crystallization (AFC) recorded by early-Paleozoic mafic rocks, eastern Alborz, Iran.
	#282	Mamoru Murata	Petrogenetic comparison of the mafic dykes in the Nagarparker craton of southeastern Pakistan
	#283	Emmanuel Njonfang	Petrogenesis of the Sabongari alkaline complex, Cameroon Line Magmatism (Central Africa).
	#284	Emmanuel Njonfang	Geochemical and petrological features of the last magmatic event of Mbengwi area, a continental sector of the Cameroon Volcanic Line (CVL) in central Africa
	#285	Gerel Ochir	Rare earth element-bearing alkaline complexes in South Mongolia
	#286	Mallikarjuna Reddy Ragi	Petrogenetic model for the Kunavaram-Kunduluru alkaline gneissic belt, Khammam district, Andhra Pradesh, India-a geochemical approach
	#287	Thomas Seifert	The gold-lamprophyre association – arguments for Au-rich sources in the deeper earth's mantle
	#288	Li Su	Foidite-Tephrite pipes/dykes in Bachu region, the northwest margin of the Tarim Basin: implications for Permian mantle plume activity
	#289	Xingke Yang	Characteristics of the Deep Magma Activity and Thermal Processes in the East of Ordos Basin, in the North China Craton Damage Background
22.5	#290	Samarendra Bhattacharya	Migmatite to granite-pluton and the role of deformation: examples from India

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	#291	Vladimir Chupin	Melt inclusions in granulites/eclogites, Pamir: evidences of incongruent melting on the crust-mantle boundary
	#292	Joerg Hermann	Instantaneously developed crustal geochemical signatures in anatectic melts, and melt interconnection in the protolith
	#293	Mutsumi Kato	Incongruent melting of khondalite (garnet-sillimanite gneiss) to form corundum in the vicinity of quartz: examples from Sri Lanka and East Antarctica
	#294	Nestor Vegas	Anatexis related with extensional tectonics in Sierra de Cachi, Salta, NW Argentina
	#295	Roberto Weinberg	Diatexite Deformation and Magma Extraction on Kangaroo Island, South Australia
	#296	Roberto Weinberg	Granitic magma transfer from source to batholith: the Karakoram Shear Zone dyke network, Ladakh, NW India
23.5	#297	Mirian Menegazzo	Relationships between a new Podocnemididae (Pleurodira : Testudines) morphotype and correlate specimens from the Upper Cretaceous of the Bauru Group, Paraná Basin, Southeastern Brazil
	#298	Telm Bover-Arnal	Transgressive sedimentation in the uppermost Lower Aptian of Mexico and Spain: chronostratigraphic constrains on the Tethyan global sequences
	#299	Kunio Kaiho	Trigger and process of the end-Cretaceous mass extinction
	#300	Kunio Kaiho	Trigger and process of the end-Permian mass extinction
	#301	Qiyue Zhang	Occurrence of Horseshoe Crab fossils from the Middle Triassic of SW China
24.1	#302	Gilbert Camoin	Sedimentology of modern carbonate systems from the Eparses islands, SW Indian Ocean
	#303	Hayley Cawthra	Carbonate diagenesis and palaeoclimatic implications of submerged Pleistocene reefs off the east coast of South Africa
	#304	Yu-Chen Chou	Monthly-resolved coral skeletal lead isotopic determination in picogram quantities by MC-ICP-MS
	#305	Tara Clark	U-series dating of coral death assemblages: Evidence of a historical regional collapse of branching Acropora communities in the Palm Islands region, GBR
	#306	Alyssa Peleo-Alampay	Coccolith Flux from Sediment Traps Off Northwest Luzon, Philippines: Comparing ENSO and Non-ENSO Years
	#307	Keiichi Sasaki	Interstadial coral reef developments between 62 and 52 ka in Kikai Island, central Ryukyus of Japan
	#308	Vinod Tewari	Northward flight of the Indian Plate ,Paleogeography and Paleoclimate of the Mesozoic- Tertiary sedimentary basins of the NE India
	#309	Satomi Ueda	Modes of asexual reproduction and recovery of the colonial zooxanthellate scleractinian <i>Oulastrea crispata</i>
	#310	Kevin Welsh	Western Pacific warm pool mean conditions and ENSO during Marine Isotope Stage 3 using long-lived bivalves as a new high resolution climate archive
25.4	#311	Till Hanebuth	Control of sediment supply, palaeoceanography and morphology on late Quaternary sediment dynamics at the Galician continental slope (NW Spain)
	#312	F. Javier Hernández-Molina	The dynamics of contourite terraces – a case study at the northern Argentine continental margin

Poster Session - Wednesday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
	#313	Hendrik Lantzs	A submarine canyon as sink in the interplay of down-slope and along-slope processes - The Mar del Plata Canyon offshore Argentina
	#314	Aaron Micallef	Sedimentary activity in a non-coupled submarine canyon: Cook Strait, New Zealand
	#315	Aaron Micallef	From shelf to abyss: Morphology of the Avilés submarine canyon, Northern Iberian margin
25.5	#316	Anu Kaskela	FINMARINET – Geological inventories for planning the marine habitat network in Finland
	#317	Aaron Micallef	A multi-method approach for mapping the Maltese Islands' coastal habitats in fulfilment of the EU Marine Strategy Directive.
26.3	#318	Vladimir Glebovskiy	Thickness of the Earth Crust in the Deep Arctic Ocean – Results of 3-D Gravity Modeling
	#319	Valery Kaminsky	Map of thickness of the sedimentary cover of the Arctic Ocean
	#320	Valery Kaminsky	Mendeleev Rise (Arctic Ocean) as a Geological Continuity of the Siberian Continental Margin
28.3	#321	Glen Bann	The Soil Evaporation Potentiality Index: a new toolkit of indicators to measure and monitor soil salinity and associated soil and vegetation degradation.
	#322	Glen Bann	The use of low induction number EM surveys for sustainable holistic agronomy and ecosystem management activities in heterogeneous upland environments.
	#323	Glen Bann	The use of electromagnetic induction (EM and AEM) surveys for secondary dryland salinity applications: the relevance for mapping, monitoring, modelling and management activities in upland landscapes of Southern Australia.
	#324	Jonathan Clarke	The use of Encapsulated Core Sampling in Lexan Liners with Sonic Drilling for Aquifer Characterisation: a case study from the Darling Floodplain, western New South Wales, Australia
	#325	Jonathan Clarke	Fluvial Facies and palynology of Miocene Upper Renmark Group, Menindee, Australia
	#326	Jonathan Clarke	Assessing the value of hyperspectral analysis methods on drillcore materials for hydrogeological investigations: a case study using sonic cored materials in shallow alluvial sediments from the Darling floodplain, New South Wales, Australia
	#327	Oyun Demchig	Hydrological investigations in Balgasyn Ulaan Nuur, Mongolia using remotely sensed data
	#328	Sven Follin	Deterministic modelling of deformation zones and fracture domains and their hydraulic properties, Forsmark, Sweden
	#329	Larysa Halas	GIS techniques for flood-inundation mapping of the Darling-River floodplain using a LiDAR Digital Elevation Model.
	#330	Larysa Halas	New geomorphic and surface-materials mapping approaches for hydrogeological investigations in the Darling River NSW, Australia
	#331	Larysa Halas	Mapping surface and sub-surface salinity hazard in the River Murray floodplain between Lindsay and Wallpolla Islands, Murray Basin, SE Australia.
	#332	Lanfang He	Groundwater mapping with Gravity and AMT, two case histories in China

Poster Session - Wednesday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
	#333	Takashi Kusuda	Eroded confining layer and groundwater flow in artesian aquifer system, southeast of Kanto groundwater basin Japan
	#334	Ken Lawrie	Optimising airborne electromagnetic surveys to identify potential managed aquifer targets and groundwater resources: a case study from the Darling River floodplain, New South Wales, Australia
	#335	Ken Lawrie	Using airborne electromagnetic data as part of an integrated assessment of the salinity hazard along a 450 km reach of the River Murray Corridor, SE Australia
	#336	Matthias Raiber	Linking 3D geological modelling and multivariate statistical analysis to define groundwater chemistry baseline and inter-aquifer connectivity, Clarence-Moreton Basin, Southeast Queensland, Australia
	#337	Jacek Rajchel	Chloride waters of the Polish Carpathians
	#338	Jacek Rajchel	Chemical and isotopic composition of the chloride waters of Rabka-Zdrój (Polish Carpathians)
	#339	Caroline Ricordel-Prognon	Study of surficial weathering profiles using helicopter borne transient electromagnetic surveys: a case study in Mayotte volcanic island.
	#340	Kok Piang Tan	Using airborne electromagnetics (AEM) to map losing and gaining reaches along the River Murray between Lindsay and Walpolla Islands, Murray Basin, SE Australia.
	#341	John Triantafilis	Generating an electromagnetic conductivity image (EMCI) across a prior stream channel using EM34 and DUALEM-421 signal data and inversion modeling software (EM-TOMO)
	#342	John Triantafilis	Characterisation of municipal landfill contents and detection of preferential flow paths of a leachate plume using 3-dimensional electromagnetic conductivity imaging (EMCI)
	#343	Luke Wallace	Hydrogeology of East Timor
	#344	Caifu Xiang	Differential Hydrocarbon Migration and Accumulation in the Karstified Carbonate Reservoir in the East Slope Zone of the Lunnan Uplifted Zone, Tarim Basin
29.4	#345	Astolfo Araujo	Tropical Geomorphology, Soils, and Archaeology: Towards a Tropical Geoarchaeology
	#346	Lei Chen	Plio- to Pleistocene supergene oxidation and enrichment of massive sulfide deposits, northern Tibetan Plateau: 40Ar/39Ar constraints and tectonic implications
	#347	Patrice De Caritat	The world's first continental-scale, partial digestion geochemical dataset: Mobile Metal Ion® analysis of Australian soils
	#348	Albert Mostert	The Environmental Crystallography of Goethite
	#349	Caroline Ricordel-Prognon	Can we use the planation surface concept to reconstruct the morphogenesis of New Caledonia,? First low temperature thermochronological data
	#350	Christopher Sennitt	Gold Potential of Madagascar
	#351	Angélica Varajão	Bauxitization of charnockite from the Caparaó suite, southeastern Brazil
30.2	#352	Veronika Kapralova	Remote Sensing and Mathematical Morphology of Landscape Application for Studying Thermokarst Processes

Poster Session - Wednesday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
	#353	Anja Scheffers	Overwash deposits as palaeotempestological archives – preliminary findings from Onslow and the North West Cape area, Western Australia
	#354	Michael Staudt	Geohazards in Uganda- an update
	#355	Raimon Tolosana-Delgado	Trends on wave storminess at the Catalan Coast (western Mediterranean): conclusions from model-data synthetic series
30.4	#356	Bartolome Bautista	Refinement of the Source Parameters of the 1948 M8.2 Panay Island Earthquake
	#357	Ma. Antonia Bornas	The 6 February 2012 M6.9 Negros Oriental Earthquake, Philippines: Preliminary Damage and Deformation Report
	#358	Margarita Dizon	Earthquake ground shaking hazard assessment of the province of Ilocos Norte, Philippines
	#359	Susan Espinueva	Assessment of the catastrophic flash floods of Tropical Storm Washi
	#360	Yaron Finzi	Remotely triggered seismicity promoted by stress concentrations along bi-material faults
	#361	Sumana Goswami	Stress tensor inversion before and after the 2004 Andaman-Sumatra (Mw 9.1) and the 1988 Indo-Myanmar (Mw 7.2) earthquakes and its kinematic implications in South-East Asia
	#362	Vilma Hernandez	Tsunami hazard assessment of Barangay Pili and Poras, Boac Marinduque
	#363	Tatsuya Ishiyama	Reprocessing of offshore seismic reflection data and their structural interpretation on the hangingwall above a megathrust generated the gigantic 2011 Tohoku-oki earthquake
	#364	Osamu Kazaoka	Liquefaction-Fluidization Mechanism on the lower part of coastal sand dune by the 1987 east off Chiba Prefecture Earthquake, center part of Boso peninsula, southeast Japan: effect of permeable shell lamination and Holocene valley fill
	#365	Ishmael Narag	Numerical Modelling of Tsunami Waves Along Tañon Strait Associated with the 06 February 2012 Mw6.7 Negros Oriental Earthquake
	#366	Imam Priambodo	Determination of S-Wave Velocity Profiles Using Multichannel Analysis of Surface Waves (MASW) Method For Earthquake Hazard Mitigation in Padang City, Indonesia
	#367	Winchelle Ian Sevilla	Ground shaking hazard mapping of identified high-risk provinces in Luzon Island, Philippines
30.5	#368	Toshiyuki Kurahashi	Development of a georisk management tool in the survey and design phases of tunnel construction projects
	#369	Tharina Oosthuizen	Assessment of sinkhole prone land and its role in land use determination, South Africa
	#370	Ashvin Wickramasooriya	Application of Multi Criteria Decision Analysis method to demarcate landslide risk areas in central highlands of Sri Lanka
	#371	Yiping Wu	Study on risk assessment and management of high slope failure in New Bodong County, Three Gorge Reservoir
31.6	#372	Deshan Cui	Prediction of the Adsorbed Water Film Thickness from the Soil-Water Characteristic Curve and Pore Size Distribution
	#373	Ji-Hwan Park	Detection of Pore Structure Change of Rock During Freeze-thaw Weathering

Poster Session - Wednesday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
	#374	Manabu Takahashi	On the relationship between 3 dimensional pore geometry and permeability anisotropy of clastic sandstone- discussion on the information of the number of connecting path and tortuosity data obtained by micro focus X ray CT-
32.1	#375	Alvaro Crosta	Spectral mapping using ASTER VNIR, SWIR and TIR bands for characterizing hydrothermal alteration in Moquegua and Puno departments, Peru
	#376	Thomas Cudahy	Applying WorldView-2 multispectral data to iron skarn deposit exploration in central Iran
	#377	David Kelley	Defining Jamaican Bauxite resources through GIS-based terrain analysis.
	#378	Alexandr Kirsanov	Utilization of ASTER hyperspectral data during prospecting for solid minerals
	#379	Raymond Kokaly	Spectroscopic remote sensing for mapping minerals, vegetation and materials across the landscape
	#380	Tin Ko Oo	Hydrothermal alteration mapping using ASTER data at high sulfidation Letpadaung copper deposit Monywa District, Central Myanmar
	#381	Sandro Moretti	Iron minerals detection in Western Sahara using Landsat ETM+
	#382	David Turner	Reflectance spectroscopy of well-characterized rare earth element minerals
	#383	Guoqing Yao	Mixed Pixel Decomposed Technique for Minerals Exploring with Hyper-Spectrum Image
	#384	Zhifang Zhao	Study on Mineral Alteration Extraction Using ASTER Data in Mountain Plateau with Cover
34.1	#385	Qianqian Guo	Late Paleozoic accretionary tectonics of Beishan Orogen, NW China
	#386	Shigeki Hada	Drift history of terranes: evidence from mid-Permian fusulinacean territories
	#387	Alan Jones	Crustal weakening and transgressive melt penetrative intrusion across the Kunlun Shan inferred from INDEPTH Phase III and Phase IV magnetotelluric data
	#388	Alan Jones	Lithospheric structure across the Altyn-tagh fault on the north margin of the Tibetan plateau revealed by magnetotelluric data
	#389	Alan Jones	Discontinuous electrical conductivity across the Yarlung-Zangbo Suture, Southern Tibet, from re-analysis of INDEPTH MT data
	#390	Hee Jae Koh	Northeastward extrusion and tectonic evolution of the Yeongweol Group in the Ogcheon Belt, Korea
	#391	Yalin Li	Late Cretaceous volcanism in the Northern Tibet and its tectonic implications
	#392	Nils Moosdorf	Rock types of Asia represented in the Global Lithological Map Database (GLiM)
	#393	Baogui Niu	Introduction to International Geological Map of Asia (1:5M)
	#394	Yukiko Ohtomo	Fault rocks and structures along the Median Tectonic Line in the Sakuma area, central Japan
	#395	Liang Shen	Heterogeneous thinning of the lithosphere in the Liaodong Peninsula (North China Craton): evidence from three detachment faults

Poster Session - Wednesday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
	#396	Liang Shen	Is Jurassic magmatism in the Liaodong Peninsula the precursor of extension in the North China Craton?
	#397	Mei Xi	Introduction on the geological-geophysical map series of China's land and sea
	#398	Tzen-Fu Yui	Detrital Zircons from the Tananao Metamorphic Complex of Taiwan: Implications for sediment provenance and Mesozoic tectonics
	#399	Lei Zhao	A tectonic sketch map of western Junggar and East Kazakhstan
35.3	#400	Yuliya Demidenko	Mobergella radiolata – a potential species for defining the base of Atdabanian Stage (Lower Cambrian)
	#401	Arne Thorshøj Nielsen	The “Hawke Bay Event” (Early/Mid Cambrian transition) in Scandinavia
	#402	Konstantin Pak	Proposed Standard Middle Cambrian Stages of the Russia
	#403	Konstantin Pak	The Russian standard of the Lower Cambrian stratigraphic chart
	#404	Pavel Parkhaev	Aldanella attleboroensis – a potential species for defining the base of Tommotian Stage (Lower Cambrian)
	#405	Michael Steiner	Biostratigraphic and paleogeographic significance of a restudied early Cambrian microfauna from Northern Montagne Noire (southern France)
	#406	Alexey Varlamov	Stage scale of Russian Upper Cambrian
35.4	#407	Guillermo Albanesi	Review of Tremadocian (Lower Ordovician) biostratigraphy from northwestern Argentine basins
	#408	Andrei Dronov	New data on stratigraphy and conodonts from the Ordovician of Moscow Syncline
	#409	Tatiana Tolmacheva	The Upper Cambrian - Ordovician stratigraphy and conodonts of the October Revolution Island, the Severnaya Zemlya Archipelago
	#410	Tatiana Tolmacheva	Ordovician conodonts of Kazakhstan: affinities and biogeographic signatures
	#411	Yuandong Zhang	Depositional characteristics of the Upper Katian and Hirnantian rocks in northwestern Zhejiang Province, SE China and their implications for sea-level changes
	#412	Yong Yi Zhen	Middle/Upper Ordovician boundary level conodont biostratigraphy and biofacies in the Dawangou section of the Tarim Basin, China
36.6	#413	Ismahane Chaouche	Crystallochemical and structural evolution of tourmaline in auriferous quartz veins of the Iskel terrane prospect (West Hoggar, Tamanrasset, Algeria)
	#414	Jinyeon Hwang	Effect of carbonation on ettringite formation and concrete deterioration
	#415	Kyeongho Kim	Mineralogy of Palygorskite from Paju Area in Korea
	#416	Nobuhiro Kusano	Cathodoluminescence characterization of dolomite: site preference of Mn activator and temperature
	#417	Hirotsugu Nishido	Cathodoluminescence centers in forsterite
	#418	Wen Su	Chlorine diffusion in pargasitic amphibole
	#419	Yuta Tsuchiya	Cathodoluminescence characterization of zircon with low-dose radiation
	#420	Anna Vymazalova	Selected platinum-group minerals from Norilsk Ni-Cu-PGE deposit and their experimental approach
	#421	Liangju Zhang	The mechanism of a Crystal Growth and Characteristics of Etched Figures on c{0001} Face of Tabular Beryl Crystal from Pingwu County, in Sichuan Province China

Thursday Program

THURSDAY 9 AUGUST 0830 - 1030

1.1 - Session 2 - Geoheritage in Australia and the southern hemisphere

0830 - 1030

Boulevard Auditorium

Time		
0830	#2605	Geoheritage in Australia: The Past - An overview from the beginning in 1960 up to 2004 Edmund Bernard Joyce
0845	#2606	Geoheritage in Australia: The present - concepts and changes between 2004 to 2010 Susan White (Invited)
0900	#2607	The Tasmanian Geoconservation Database Michael Comfort
0915	#2608	Recognising and protecting significant geoheritage values in Australia through World and National Heritage listings Jane Ambrose
0930	#2609	Australia's fossil heritage - its protection and preservation Ian Percival (Invited)
0945	#2610	The National Heritage potential in Australian desert landscapes Gresley Wakelin-King
1000	#2611	Geodiversity underpins vegetation biodiversity at all scales - a case study from the Pilbara region of Western Australia Kathy Meney
1015	#2612	Geoconservation in Brazil: a slow but consistent trail towards the success Jose Bernardo Brilha

2.6 - Session 1 - The role of Geological Surveys in the development and management of natural resources, groundwater and disaster risk reduction

0830 - 1030

Boulevard Meeting Room 3

Time		
0830	#2613	<i>Management of Georesources for Sustainable Development</i> Franca Schwarz (Keynote)
0900	#2614	<i>Geological Survey and its activities in the field of geosciences in Bangladesh perspective</i> Afia Akhtar (Keynote)
0930	#2615	The role of Slovak geological Survey in the Slovak territory. Branislav Zec
0945	#2616	The National Geohazards Assessment and Mapping Program of the Department of Environment and Natural Resources - Mines and Geosciences Bureau (DENR-MGB), Philippines Lilian Rollan
1000	#2617	Mineral Rights in Tanzania: Analysis of their Evolution and Impact on Land Rights. Eliakimu Kagimbo
1015	#2618	Geological exploration and mining in global policy Semyon Kimelman (Invited)

3.2 - Session 2 - Geology and Archaeology: submerged landscapes of the continental shelf

0830 - 1030

Boulevard Meeting Room 1

Time		
0830	#2619	Locating Pleistocene-Aged Submerged Archaeological Sites Along Western North America's Pacific Coast: Current Status of Research and Future Needs Loren Davis

THURSDAY 9 AUGUST 0830 - 1030 continued

0845	#2620	Interrelation of geosphere, climate processes and anthroposphere at Northern European Marginal Seas during the Holocene Jan Harff
0900	#2621	Stone Age archaeological sites and environmental changes during Holocene in the North-Western of Russia region Marianna Kulkova
0915	#2622	Late Quaternary coastal landscape evolution of the Maltese Islands (Mediterranean Sea) reconstructed from high resolution marine geophysical data. Aaron Micallef

4.5 - Session 1 - Geopollution, dust, and man made strata [includes IUGS Commission on Geoscience for Environmental Management (GEM) Working Group on Dust] 0830 - 1030 GeoExpo Hospitality Room 2

Time		
0830	#2623	New techniques for landfill biogas emission assessment in Italy Ciro Manzo
0845	#2624	The industrial development and the inventory of contaminated sites in the Cubatao Valley, Brazil. Sueli Yoshinaga Pereira
0900	#2625	The geology of the Anthropocene Simon Price
0915	#2626	Man-made strata - problems and strategies Brian Marker (Invited)
0930	#2627	Urban man-made strata: the IUGS-GEM initiative Jonas Satkunas (Invited)
0945	#2628	<i>Classification of man made strata for assessment of geopollution</i> Hisashi Nirei (Keynote)

5.4 - Session 1 - Geosciences and computing – hardware, software and middleware technology and systems for the geosciences 0830 - 1030 Boulevard Meeting Room 2

Time		
0830	#2629	Virtual Geophysics Laboratory (VGL): scientific workflows exploiting the Cloud Terry Rankine
0845	#2630	Modelling large deformation and brittle failure in the geosciences: data assimilation and HPC challenges Dion Weatherley
0900	#2631	OSGeo-Live: Best-of-Breed Open-Source Geo Software To Go Peter Baumann
0915	#2632	The Virtual Exploration Geophysics Laboratory (VEGL): a browser-based interface to supercomputer inversions of geophysical data Richard Chopping
0930	#2633	From Virtual Libraries to Virtual Laboratories: Enabling Integration of Earth Science Data with Other Communities to Address the Grand Challenges of Global Sustainability. Lesley Wyborn
0945	#2634	Poster teasers (2 mins each)

THURSDAY 9 AUGUST 0830 - 1030 continued

5.6 - Session 9 - New Theories and Methods in Resources Exploration 0830 - 1045 Plaza Auditorium

Time		
0830	#2635	<i>Exploration under cover—Part 1, sparse information</i> Donald Singer (Keynote)
0900	#2636	<i>Reducing uncertainty in the resource-replenishment equation</i> Margaretha Scott (Keynote)
0930	#2637	<i>Database construction of metal-deposits investigation materials in Japan with application to characterizing ore grade distributions</i> Katsuaki Koike (Keynote)
1000	#2638	Strengthening Scientific and Technological Support For New Breakthrough in Geological Prospecting Pengda Zhao
1015	#2639	3D geological and geochemical modeling from a well-log dataset to clarify deep hydraulic structure in sedimentary rocks Lei Lu
1030	#2640	Quantitative research about the relations between paleotectonic and oil and gas filling path at Sansun Region in Tazong, China Xiaoping Mao

6.2 - Session 4 - Geothermal resources II Sponsored by CO2 CRC 0830 - 1030 Mezzanine Room 1

Time		
0830	#2641	Modelling of 3D fractured geological systems - technique and applications Mauro Cacace
0845	#2642	Hydrothermal simulations of the Perth Metropolitan Area, Western Australia Heather Sheldon
0900	#2643	A new geological understanding of the Perth Basin for geothermal exploration Nicholas Timms
0915	#2644	Calibration of a Sydney Gunnedah basin thermal model and insights into the Bowen basin Steve Quenette
0930	#2645	PRESENTATION CANCELLED
0945	#2646	Research priorities for the Australian geothermal industry Cameron Huddleston-Holmes

6.3 - Session 1 - Overview Nuclear Power and Waste Disposal Sponsored by CO2 CRC 0830 - 1030 Plaza Meeting Room 5

Time		
0830	#2647	<i>Geological Disposal Options and Site Selection in the USA</i> Andrew Orrell (Keynote)
0900	#2648	Nuclear energy: prospects and challenge Syed Hasan
0915	#2649	Uranium 2011: Resources, Production and Demand Adrienne Hanly
0930	#2650	<i>Geologic Disposal Options for High-Level Radioactive Waste and the Potential Impacts of Reprocessing Spent Nuclear Fuel</i> Peter Swift (Keynote)

THURSDAY 9 AUGUST 0830 - 1030 continued

1000	#2651	Reference design and operations for deep borehole disposal of high-level radioactive waste Bill Arnold
1015	#2652	A sensitivity analysis on repository sealing methodology Bjorn Gylling
7.7 - Session 1 - Qualitative and quantitative methods of assessing undiscovered mineral resources 0830 - 1030 Mezzanine Room 9		
Time		
0830	#2653	Undiscovered mineral resources of North Queensland, Australia - an assessment and implications for exploration targeting Paul Donchak
0845	#2654	Pan-European mineral resource assessment: the ProMine Project Gabor Gaál
0900	#2655	Global mineral resource assessment: copper, potash, and platinum group elements Kathleen Johnson
0915	#2656	Integrated assessment and prediction of geological mineragenetic objects based on GIS modeling Victor Kilipko
0930	#2657	Mineral Potential of Portugal Luís Martins
0945	#2658	Non-equilibrium thermodynamics and multi-physics for earth resource assessment Ali Karrech
1000	#2659	Rare metal resource evaluation for solid waste buried in landfills Kazuo Kamura (Invited)
1015	#2660	Do we still need experts to make estimates of undiscovered mineral deposits? Donald Singer
8.4 - Session 1 - Advances in geochemical exploration 0830 - 1030 Mezzanine Room 2		
Time		
0830	#2661	<i>Mechanisms of metal transport through transported cover - implications to mineral exploration</i> Ravi Anand (Keynote)
0900	#2662	Hydrogeochemical exploration through deep cover: Thomson Orogen test site Nathan Reid
0915	#2663	Geochemical exploration over the south-western margin of the Cobar Basin, New South Wales Richard Mazzucchelli
0930	#2664	Using regolith science in geochemical exploration in western New South Wales, Australia Kenneth McQueen
0945	#2665	Carbonate compositions as a guide to Zn-Pb mineralisation in the Century region, NW Queensland, Australia Keith Scott
1000	#2666	Exploration in Covered Terrains - Discriminating Target and Background Pb in soils based on isotopic composition. Graham Carr
1015	#2667	Gold exploration in Colombia using the Thermo Scientific Niton portable XRF analyzer Alireza Somarin

THURSDAY 9 AUGUST 0830 - 1030 continued

9.4 - Session 1 - Iron oxide copper-gold (IOCG) deposits; the unhappy family
0830 - 1030
Great Hall 4

Time		
0830	#2668	<i>Iron Oxide Copper Gold (IOCG) Deposits Sensu Stricto and the Related (?) Kiruna-type Magnetite-Apatite Deposits - Similarities and Differences Important for Exploration</i> Murray Hitzman (Keynote)
0900	#2669	Hybrid magmatic-hydrothermal iron oxide-copper-gold deposits of the Carajás Mineral Province Lena Monteiro
0915	#2670	On the use of the geochemical footprints of iron oxide-copper-gold deposit hydrothermal alteration as an exploration tool Jean-François Montreuil
0930	#2671	A possible redefinition and reclassification of the IOCG clan Huayong Chen
0945	#2672	Late Paleoproterozoic Kangdian IOCG (iron-oxide copper gold) metallogenic province, South China Xin-Fu Zhao
1000	#2673	Geological framework and characteristics of IOCG type Cu deposit at Thanewasna, Western Bastar craton, Central India Muduru Lachhana Dora
1015	#2674	IOCG sensu stricto deposits as a subset of a broader group of iron oxide associated-alkali altered mineralised systems Michael Porter

9.7 - Session 1 - Mineral deposits: episodes, accumulation of metals and related geodynamic processes in China and adjacent regions [IAGOD / IGCP-592]: Gold and PGE metallogeny
0830 - 1030
Great Hall 3

Time		
0830	#2675	Genesis of PGE mineralization in the Wengeqi mafic-Cultramafic complex, Guyang County, Inner Mongolia, China Shangguo Su
0845	#2676	Orogenic gold lode deposits in the southern part of the Russian Far East Nikolay Goryachev (Invited)
0900	#2677	Mantle fluids and sulphide chemistry of the Jiaodong Gold District, northeast China Stephanie Mills
0915	#2678	The Elkon Ore District in South Yakutiya (Russia): Geology, Geochemistry, and Alteration Controls of Au-U Mineralization Anatoly Molchanov
0930	#2679	<i>Gold metallogeny of Asia</i> Richard Goldfarb (Keynote)
1000	#2680	Gold deposits of Ob-Zaisan fold zone (Western Siberia and Eastern Kazakhstan); types and ages of mineralization, correlation with magmatic complexes Evgeniy Naumov (Invited)
1015	#2681	Telluride mineralogy of the Sandaowanzi gold deposit in Heilongjiang Province, China Jiajun Liu (Invited)

THURSDAY 9 AUGUST 0830 - 1030 continued

10.1 - Session 1 - Finding resources, making reserves *Sponsored by Rio Tinto*

0830 - 1030

Mezzanine Room 3

Time		
0830	#2682	<i>Developments in underground coal gasification</i> Cliff Mallett (Keynote)
0900	#2683	New coal resources assessment in Hungary Mária Hámor-Vidó
0915	#2684	Targeting Mongolian Coal Tracy Fouet
0930	#2685	Coal deposits of Russia and their rare metal potential Vladimir Vyalov
0945	#2686	Overview of Mozambique coal deposits Lopo Vasconcelos (Invited)
1000	#2687	Thick Permian Coal Zones of Zambezi Basin, Mozambique- Stratigraphic model, cyclic sedimentation and coal preparation. Lakshminarayana Guddanti
1015	#2688	Geology of Indonesian coal basins Michael Friederich (Invited)

11.6 - Session 1 - Putting the geo into geophysics - adding clout through better datasets and joint interpretation

0830 - 1030

Arbour Meeting Room 2

Time		
0830	#2689	Interpretation of regional transects across the Canning Basin, Western Australia, based on seismic, gravity and magnetic data Marien Parra
0845	#2690	Integrated geophysical, geological and geochemical exploration in the Llanos foreland basin, Eastern Colombia: from reconnaissance to field appraisal and re-exploration of subtle traps Mario De Freitas
0900	#2691	Discussions of gravity and magnetic signatures of magma-poor margin features and the inherent Variscan basement structures on the offshore Western Iberia Luizemara Alves
0915	#2692	Basement architecture of Australia's Southwest Margin from potential field data: implications for predictive basin analysis Stephen Johnston
0930	#2693	Combining seismic interpretation and gravity modelling, Muttaborra, Galilee Basin, Queensland Janelle Simpson
0945	#2694	Structures of Outer Flysch Carpathians as result of integrated geophysical survey Michal Stefaniuk
1000	#2695	Problems of deep structural objects explorations in the Polish Flysch Carpathians Kazimierz Madej
1015	#2696	SEEBASE™ Workflow: Increasing the "Potential" of Potential Field Datasets Lynn Pryer

THURSDAY 9 AUGUST 0830 - 1030 continued

12.2 - Session 3 - Shale and tight gas: Petrophysics and Rock Properties

0830 - 1030

Mezzanine Room 4

Time		
0830	#2697	Unconventional hydrocarbons with nano-sized pore-throats in China Zhi Yang
0845	#2698	New approach for shale gas reservoirs parameters prediction based on well logging Maojin Tan
0900	#2699	Accessibility of pores in gas shale to methane, water, and brine Leslie Ruppert
0915	#2700	Clay mineralogy provides a first order control on TOC, spatial distribution of organic enrichment, fracability and diagenesis in the Woodford, Green River, Monterey and Pierre Shale, USA. Martin Kennedy
0930	#2701	Fracture degradation by carbonate cement in tight-gas sandstones, Piceance Basin, Colorado Tobias Weisenberger
0945	#2702	Differences in pore size characteristics between visual (SEM) and technical (MICP) analyses of various unconventional shale plays from the Western Canadian Sedimentary Basin, Alberta and British Columbia, Canada Raphael Wust

13.4 - Session 2 - Depositional Controls on Reservoirs

0830 - 1030

Boulevard Room

Time		
0830	#2703	Sequence stratigraphy and depositional evolution of the Ordovician carbonate platform in the Central Tarim Basin and its response to tectonism and sea-level change Changsong Lin
0845	#2704	The relationship of the different carbonate reservoirs of the Cambrian-Ordovician in the Tarim Basin, NW China Zhiqian Gao
0900	#2705	Sedimentary evolution, carbon isotope composition of Ordovician in Ordos, North China and their Petroleum Geological significance Qiang Chen

14.3 - Session 3 - Divergent and transform passive margins: observations, imaging and case studies: Transform margins and rifts

0830 - 1030

Plaza Meeting Room 6

Time		
0830	#2706	Initiation of transform continental margins Christophe Basile
0845	#2707	Sedimentary basin formation and evolution along the mainly sheared western Barents Sea-Svalbard margin Jan Inge Faleide (Invited)
0900	#2708	Late Paleozoic - Mesozoic pull-apart basin history along the Laurentia-Eurasia plate boundary in North Greenland Eckart Håkansson
0915	#2709	Uplift, subsidence, and rotation in the northern Gulf of California rift system Joann Stock (Invited)
0930	#2710	New insights into magmatism and changing rift styles in the evolution of the Gulf of California Scott Bryan
0945	#2711	Geophysics of proterozoic crustal suturing in the Arabian Shield and platform and later modifications caused by Red Sea spreading Saad Mogren

THURSDAY 9 AUGUST 0830 - 1030 continued

1000	#2712	3D structural modelling of a wrench rift basin: the Upper Rhine Graben of NW Europe as a case study - Contribution of the EU GeORG project. Laurent Beccaletto
1015	#2713	Global inventory of transform continental margins: physiographic attributes and controlling parameters Marion Mercier De Lépinay
15.5 - Session 4 - Orogens and orogenesis: accretionary, cordilleran and collisional processes, products 0830 - 1030 Great Hall 1&2		
Time		
0830	#2714	Zircon geochronology from eclogites, gabbros and sedimentary blocks within the Port Macquarie serpentinite melange, southern New England Orogen, Australia: Late Paleozoic growth of eastern Gondwana via quantum tectonics Solomon Buckman
0845	#2715	Anatomy of contorted orogeny: The New England Oroclines of eastern Australia Gideon Rosenbaum
0900	#2716	Does the Manning Orocline exist? Jie Yan
0915	#2717	Unravelling New England Orogen by anisotropy of magnetic susceptibility studies. Tania Mochales Lopez
0930	#2718	Post-orogen asymmetric subduction rollback in the southern New England Orogen: implications for the earliest phase of the Mesozoic rifting in eastern Australia Pengfei Li
0945	#2719	Overview of the Deep Fault Drilling Project, Alpine Fault, Phase 1, DFDP-1 Rupert Sutherland
1000	#2720	Mesozoic and Cenozoic multiple deformational events in the Ailao Shan-Red River Shear Zone, NW Vietnam Andrzej Zelazniewicz
16.2 - Session 1 - Fluids in the lithospheric mantle 0830 - 1030 Plaza Meeting Room 7		
Time		
0830	#2721	Evidence for a mantle contribution to early hydrothermal fluids associated with the Sudbury impact structure, Ontario, Canada Mitchell Kerr
0845	#2722	<i>Interaction of subduction zone fluids with the mantle</i> Joerg Hermann (Keynote)
0915	#2723	<i>A seismological perspective on water transport and distribution in subduction zones</i> Stéphane Rondenay (Keynote)
0945	#2724	Bimodal fluid flow pattern during the high-pressure dehydration of serpentinite José Alberto Padrón-Navarta (Invited)
1000	#2725	Mobilisation of Ni and transition metals by alkaline volatile-rich fluids and olivine serpentinisation in the sub-cratonic lithospheric mantle Andrea Giuliani
1015	#2726	Water in cratonic lithosphere: Calibrating laboratory-determined models of electrical conductivity of mantle minerals using geophysical observations Alan Jones

THURSDAY 9 AUGUST 0830 - 1030 continued

18.2 - Session 1 - The Neoproterozoic Earth 0830 - 1030 Plaza Meeting Room 11

Time		
0830	#2727	Animal burrow systems and microbial mat interaction of the late Ediacaran Shibantan limestone of South China Michael Meyer
0845	#2728	North China's climate in the mid Neoproterozoic - warm throughout? Steven Robinson
0900	#2729	<i>Taking stock of the Snowball Earth hypothesis</i> Nicholas Christie-Blick (Keynote)
0930	#2730	The fossil record of the Neoproterozoic BIF-Bearing Jacadigo Group, SW-Brazil Bernardo Freitas
0945	#2731	Anomalous heavy S isotope abundances in Ediacaran carbonates of the North Paraguay Belt, Brazil Milene Figueiredo
1000	#2732	A Late Neoproterozoic-Cambrian Age for the Bambuí Group, Central Brazil Marcio Pimentel
1015	#2733	The cap carbonate conundrum: Timing of the methane seeps and deglaciation of the snowball Earth Maoyan Zhu

19.3 - Session 1 - Low-temperature thermochronology and landscape evolution 0830 - 1045 Plaza Meeting Room 4

Time		
0830	#2734	The Fish Canyon Tuff apatite standard revisited Barry Kohn
0845	#2735	Integrated technologies for automated fission track analysis - sharpening the focus in low-temperature thermochronology Andrew Gleadow
0900	#2736	Low-temperature thermochronology of the Castle Cliffs, Tule Springs, and Mormon Peak detachment faults, southwestern Utah and southeastern Nevada: New constraints on the timing, magnitude and spatial pattern of Miocene strain Tandis Bidgoli
0915	#2737	Permian-Triassic thermal events in the Tazhong Uplift Zone, Tarim Basin, Northwest China: Evidence from zircon fission track thermochronology Caifu Xiang
0930	#2738	Mapping out the geomorphic response of plume-related domal uplift in crystalline Eastern Indian Peninsula: Insights from apatite fission track analysis Himansu Sahu
0945	#2739	Argon retentivity in natural supergene and hypogene jarosites and alunites Kathryn Waltenberg
1000	#2740	$^{40}\text{Ar}/^{39}\text{Ar}$ and (U-Th)/He geochronology applied to supergene minerals as temporal indicators in denudation chronology, Paraná, Southern Brazil Silvana Riffel
1015	#2741	Armoring of the landscape at the Quadrilátero Ferrífero, Minas Gerais, Brazil Hevelyn Da Silva Monteiro
1030	#2742	Denudation patterns in the Borborema Province, northeastern Brazil: constraints from cosmogenic ^{10}Be isotope analysis. Joao Morais Neto

THURSDAY 9 AUGUST 0830 - 1030 continued

20.1 - Session 1 - Terrestrial Planets and Habitability

0830 - 1030

Mezzanine Room 5

Time		
0830	#2743	Constraining deformational processes on Venus from rheology and lithospheric structure Elyse Schinella
0845	#2744	Weighted linear least square regression model suggests general applicability of measured vs predicted impact crater depths diagrams Graziella Caprarelli
0900	#2745	<i>Post formation activity in the Warrego Vallis System.</i> Joseph Leach (Keynote)
0930	#2746	Melt Pocket Characteristics and Formation in Martian Meteorite DaG 476 Suporn Boonsue
0945	#2747	The pumice-like unusual pyroclasts from El Hierro submarine eruption (Canary Islands): hydrothermal signature, new genetic insights and astrobiological significance Jesus Martinez-Frias
1000	#2748	Can elemental abundances be used to identify the most likely site for the origin of life? Aditya Chopra
1015	#2749	Laboratory investigations of analog samples for cometary matter Martin Hilchenbach

21.1 - Session 1 - Bruce Chappell Symposium. Felsic magmas: petrogenesis to metallogenesis: Sources

0830 - 1030

Plaza Meeting Room 9

Time		
0830	#2750	Source rocks to granite magmas to mineralisation Colleen Bryant
0900	#2751	Correlation of Late Devonian and Cretaceous felsic igneous rocks between New Zealand and eastern Australia: Insights from high-precision ID-TIMS U-Pb geochronology Andy Tulloch
0915	#2752	Crustal versus mantle sources for the ~370 Ma Karamaea Suite S-type magmatic 'flare-up' in New Zealand: Implications for petrogenesis and tectonic setting Rose Turnbull
0930	#2753	Formation of Jurassic high-K granitoids in the Nanling Range of southern China by reworking of supracrustal rocks by mantle-derived magmas Huiqing Huang
0945	#2754	Geochemical, Sr-Nd-Pb, and zircon Hf-O isotopes of Cenozoic K-adakitic and shoshonitic granitoid rocks in Western Yunnan, SW China: Petrogenesis and tectonic implications Yongjun Lu
0100	#2755	Association of A-type granites and carbonatites in the southwestern framing of the Siberian craton: is it unique? Antonina Vernikovskaya

22.4 - Session 1 - Quantification of extreme metamorphism and implications for tectonics

0830 - 1030

Plaza Meeting Room 10

Time		
0830	#2756	Ultrahigh pressure and ultrahigh temperature metamorphism unified in Variscan felsic "granulites" and a modern interpretation of underplating. Patrick O'Brien
0845	#2757	A long-lived UHT Grenvillian belt in central Australia Alec Walsh

THURSDAY 9 AUGUST 0830 - 1030 continued

0900	#2758	<i>Advances toward understanding ultrahigh metamorphism: the current state of play</i> David Kelsey (Keynote)
0930	#2759	UHT metamorphism in Peninsular India: a consequence of anomalous enrichment in heat producing elements? Chris Clark
0945	#2760	Timing of ultra-high temperature (UHT) metamorphism from zircon, monazite and garnet in Kerala, Southern India Rich Taylor

23.3 - Session 1 - Evolution of hominins 0830 - 1030 Plaza Meeting Room 8

Time		
0830	#2761	Shaking up the family tree: direct U-Pb dating the South African early hominin cave sites. Robyn Pickering
0845	#2762	<i>Stratigraphic Geochronology in the Omo-Turkana Basin, East Africa</i> Ian McDougall (Keynote)
0915	#2763	Stratigraphic position (in the Quaternary stratigraphy) and the age of Pithecanthropus Erectus VIII discovered in Sangiran area, Central Java, Indonesia Conradus Danisworo
0930	#2764	Enigmatic human remains from the Pleistocene-Holocene transition of southwest China and the complex evolutionary history of East Asians Darren Curnoe

24.2 - Session 1 - Ancient reefs 0830 - 1030 Mezzanine Room 8

Time		
0830	#2765	Lower Cambrian calcimicrobial-archaeocyathan bioconstructions in the Goulimine area, Anti-Atlas, Morocco Adeline Kerner
0845	#2766	Paleoecology of Devonian stromatoporoids in Belgium, from shallow water to deep mounds settings. Anne-Christine Da Silva
0900	#2767	Late Devonian carbonate magnetostratigraphy from the South Oscar Range, Lennard Shelf, Western Australia Jeroen Hansma
0915	#2768	New magnetostratigraphic results from the Devonian reef complexes of the Canning Basin, Western Australia, and its paleogeographic implications Maodu Yan
0930	#2769	Brachiopods of the Permian Reef of west Texas: An example of how high-diversity ecological communities respond to environmental change Thomas Olszewski
0945	#2770	Transient metazoan reefs in the aftermath of the end-Permian mass extinction Nicolas Goudemand
1000	#2771	New perspectives on Upper Triassic (235-201 Ma) reef ecology from northeastern Panthalassa. Rowan Martindale
1015	#2772	Slope-dwelling non-reef-building Aptian corals of the western Maestrat Basin (Spain) Telm Bover-Arnal

THURSDAY 9 AUGUST 0830 - 1030 continued

25.5 - Session 2 - Geoscience and Ocean Management

0830 - 1030

GeoExpo Hospitality Room 1

Time		
0830	#2773	Seabed mapping: geological uses and far beyond Jean-François Bourillet (Invited)
0845	#2774	<i>Setting marine jurisdictional limits - the United Nations Convention on the Law of the Sea in action</i> Philip Symonds (Keynote)
0915	#2775	The role of the Law of the Sea in driving scientific research Mark Alcock
0930	#2776	How to define the base of the slope in low gradient passive margins Izabel Jeck
0945	#2777	More Geospatial Data, More Entitlement: Analysing Indonesia's Extended Continental Shelf Submission and Recommendation Andi Arsana
1000	#2778	Law of the Sea in the Digital Age Matthew McGregor

26.2 - Session 1 - Polar climate archives and their global significance

0830 - 1030

Mezzanine Room 6

Time		
0830	#2779	Late Paleogene temperature reconstructions from the northern high latitudes (ODP Sites 643A and 647A) Katarzyna Sliwinska
0845	#2780	<i>Tracing early Cenozoic climate and environments using palynological assemblages and molecular fossils from the Wilkes Land margin, Antarctica (IODP Expedition 318)</i> Alexander J.P. Houben (Keynote)
0915	#2781	Ice Sheet dynamics and palaeoceanography along the Wilkes Land Margin during the middle Pleistocene Kevin Welsh
0930	#2782	Correlation of Late Miocene to Pliocene climatic events in Antarctic drill sites using physical properties data Trevor Williams

27.1 - Session 1 - Biogeochemical cycling and Bioprocessing technologies

0830 - 1030

Plaza Meeting Room 3

Time		
0830	#2783	Bio-mining metallurgical performance: examples of a narrow relationship between mineralogy and microbiology Carol Davis-Belmar
0845	#2784	Understanding environmental degradation processes within complex acid sulfate soil landscapes Brett Thomas
0900	#2785	Coal degradation in anaerobic sediments associated with acid mine drainage Jennifer Van Holst
0915	#2786	<i>Ore heap bioleaching: a role for ferric iron reduction?</i> Paul Norris (Keynote)

THURSDAY 9 AUGUST 0830 - 1030 continued

28.4 - Session 1 - Groundwater for energy and mining 0830 - 1030 Meeting Room S1

Time		
0830	#2787	Groundwater recharge impacts of brown coal mine depressurisation in the Latrobe Valley Rae Mackay
0845	#2788	Identifying the lowest risk adaptive management and monitoring options for managing coal seam gas groundwater impacts Catherine Moore
0900	#2789	The Namoi Catchment Water Study Gareth Price
0915	#2790	Sources of hydrochemical variability and implications associated with CSG water extraction Mauricio Taulis
0930	#2791	Aquitard assessment practices for agriculture, mining and coal-seam gas extraction Wendy Timms
0945	#2792	Thermal-Hydraulic-Mechanical-Chemical coupling with damage mechanics Thomas Poulet
1000	#2793	Palaeovalleys in arid to semi-arid Western Australia and implications for groundwater resources Pauline English

29.3 - Session 1 - Regolith/landform evolution and clay minerals 0830 - 1030 Arbour Meeting Room 1

Time		
0830	#2794	Insights into the Australian desert dunefields from a database of luminescence ages Paul Hesse
0845	#2795	Al-26/Be-10 dating of a dust mantle soil in western New South Wales, Australia David Fink
0900	#2796	South American Surface inselbergs sustained by silicified aeolian red sandstones of the Bauru Basin (Upper Cretaceous, Brazil) Luiz Alberto Fernandes
0915	#2797	Aeolian characteristics of red stratum in Linxia basin, China and its sedimentation environment analysis Xiuming Liu
0930	#2798	Geomorphic constraints on Middle Yangtze River reversal in eastern Sichuan basin, China Ping Wang
0945	#2799	Burial and exhumation - the key to survival of pre-Cenozoic regolith and landforms in Australia and Africa? Brad Pillans
1000	#2800	<i>Evolution of West African landscapes, evolution through time</i> Herve Theveniaut (Keynote)

30.5 -Session 1 - Geohazard risk analysis: the state of the art 0830 - 1030 Plaza Terrace Room

Time		
0830	#2801	<i>From natural hazard risk modelling to decision support tools: Informing disaster risk reduction in the Australasian region</i> John Schneider (Keynote)
0900	#2802	Evaluation of risk exposure to natural hazards in Central America Dirk Kuhn

THURSDAY 9 AUGUST 0830 - 1030 continued

0915	#2803	Risk analysis of a debris flow torrent in Taiwan Chih-Hao Hsu
0930	#2804	Settlement susceptibility index of the Tiber alluvial plain in Rome, Italy Massimiliano Moscatelli
0945	#2805	<i>Catastrophe Loss Modeling and its application for Enterprise Risk Management and Land-use Planning</i> John McAneney (Keynote)
35.5 - Session 2 - The Devonian-Carboniferous-Permian Correlation chart 0830 - 1030 Plaza Meeting Room 1		
Time		
0830	#2806	GSSP and regional subdivisions of the Carboniferous in Russia: approach to correlation Olga Kossovaya (Invited)
0845	#2807	Carboniferous-Permian biostratigraphic time-scales of Panthalassan and Paleo-Tethyan, mid-oceanic shallow-marine successions Katsumi Ueno (Invited)
0900	#2808	<i>Completing the Permian time scale: Cisuralian GSSP progress and correlation</i> Charles Henderson (Keynote)
0930	#2809	Magnetostratigraphy and global correlation of the Rotliegend (Permian) of Central Europe Manfred Menning
36.4 - Session 1 - Geoscience challenges in the 21st century: an early-career perspective [YES Network] 0830 - 1030 Plaza Meeting Room 2		
Time		
0830	#2810	Mining sector in its economic, scientific and social framework as a tool for regional development in Morocco Amel Barich
0845	#2811	Reconstruction of Paleoclimate and Evolution of Paleontology in Liaoning on Early Cretaceous Meng Wang
0900	#2812	Application of seismic attribute (semblance) in reservoir characterization of Ebubu and Onne fields in the Niger Delta, Nigeria Kolawole Adeniji
0915	#2813	Peculiarities of the seismic mapping the Jurassic barrier reef system of Bukhara-Khiva province: A case study in the Chegara, Istmock and S.Urtabulak fields, Western Uzbekistan. Timur Fayzullaev
0930	#2814	Groundwater evolution in the Voltaian Basin, Ghana - an application of multivariate statistical analyses to hydrochemical data Sandow Mark Yidana
0945	#2815	Calcium isotope fractionation and its controlling factors of authigenic carbonates in the cold seeps from the Northern South China Sea Shuhong Wang

THURSDAY 9 AUGUST 0830 - 1030 continued

36.5 - Session 1 - Inclusions in minerals [International Mineralogical Association Working Group on Inclusions in Minerals]

0830 - 1030

F1 - Training Room

Time		
0830	#2816	<i>The roles of fluid inclusions in hydrodynamic studies of mineralization systems</i> Guoxiang Chi (Keynote)
0900	#2817	A fluid inclusion study of the Maldon gold deposit, Victoria, Australia: a reduced intrusion-related deposit Terry Mernagh
0915	#2818	Compositional variations in large sphalerite-hosted fluid inclusion assemblages: Implications for metal transport and deposition in hydrothermal ore deposits Kalin Kouzmanov
0930	#2819	Fluid Inclusion studies of Tungsten deposits in around Balda Granite, Rajasthan, India. Girish Kumar Mayachar
0945	#2820	PRESENTATION CANCELLED
1000	#2821	Fluid characteristics of the Yinshan Cu-Au-Pb-Zn-Ag deposit, South China and its geological significance Guoguang Wang
1015	#2822	Mesozoic intracontinental orogeny of Qinling orogen, central China Shunyou Cheng
1030 - 1100		BREAK
1100 - 1200		<i>Plenary Session 4:</i> <i>What does the geological record tell us about the Earth's past climates in relation to projected climate change?</i> Great Halls 1 & 2 <i>Chair: Dr Chris Pigram (Australia)</i> <i>Professor Will Steffen (Australia)</i> <i>Professor Tim Naish (New Zealand)</i>
1200 - 1300		LUNCH

THURSDAY 9 AUGUST 1300 - 1500

1.1 - Session 3 - Sustainable use of Geoheritage - geodiversity, education and geoconservation in World Heritage Properties, Geoparks, and by local planning authorities

1300 - 1500

Boulevard Auditorium

Time		
1300	#2823	Regional and local geodiversity assessments - two perspectives Lars Erikstad
1315	#2824	Geoparks and World Heritage: A Comparison Patrick McKeever
1330	#2825	Management effectiveness evaluation of geo-heritage protected areas in Taiwan Lih-Der Ho
1345	#2826	The importance of geoconservation in the Limpopo, Province, South Africa Ndivhuwo Cecilia Mukosi
1400	#2827	Protecting Auckland's remaining volcanic heritage Bruce W Hayward

THURSDAY 9 AUGUST 1300 - 1500 continued

1415	#2828	A potential natural laboratory for Proterozoic climate, tectonic and mineralisation studies: Bimbowrie Conservation Park, Olary region, South Australia Wolfgang Preiss
1430	#2829	Geobiological opportunities to learn at US fossil parks Renee Clary

1.5 - Session 1 - Gemstones 1300 - 1500 F1 - Training Room

Time		
1300	#2830	<i>Recent Advances and Remaining Questions in Gem Deposit Research</i> Lee Groat (Keynote)
1330	#2831	Key Features of Opal Vein Deposits at Lightning Ridge, NSW, Australia Simon Pecover
1345	#2832	Play-of-color opal of pedogenetic origin at Wegel Tena, Wollo, Ethiopia Yves Bodeur
1400	#2833	Identification of Natural, Treated, and Synthetic Gem Diamonds: More Than Meets the Eye Christopher Breeding
1415	#2834	Chemical signature of emeralds Dietmar Schwarz
1430	#2835	Corundum from Liberia, Sierra Leone and Guinea Lore Kiefert
1445	#2836	Indication of low temperature heating in Mozambique ruby samples by AFM and FTIR Pornsawat Wathanakul

2.6 - Session 2 - The role of Geological Surveys in the development and management of natural resources, groundwater and disaster risk reduction 1300 - 1500 Boulevard Meeting Room 3

Time		
1300	#2837	<i>CCOP's strategies gearing towards the development and management of natural resources, groundwater and disaster risk reduction</i> Qingcheng He (Keynote)
1330	#2838	Modern technology: opportunity or threat for failing geological surveys? Colin Reeves
1345	#2839	The need for an open exchange of geoscientific data models Carl Watson (Invited)
1400	#2840	Mining rent and mineral resource aspects of the global economy Semyon Kimelman
1415	#2841	Agromineral Resources of Nigeria Siyan Malomo
1430	#2842	Mineral Resource Management by the State Geological and Subsurface Survey of Ukraine (SGSSU) Lyubomyr Goncharuk
1445	#2843	Quaternary deformation GIS of the Argentine Republic Analía Casa

THURSDAY 9 AUGUST 1300 - 1500 continued

3.7 - Session 1 - Pre-Mesozoic Climates and Global Change (IGCP 591): Paleoclimate and geochemical proxies – the contrasting records of the Proterozoic and the late Paleozoic 1300 - 1500

Boulevard Meeting Room 1

Time		
1300	#2844	<i>Are Paleoproterozoic and Neoproterozoic stable isotopes useful for chemostratigraphic correlation? Examples from South Gabon and Democratic Republic of Congo</i> Alain Pr��at (Keynote)
1330	#2845	Pre-Mesozoic glacial event in the Lesser Himalaya, India and global paleoclimate change Vinod Tewari
1345	#2846	Climatic transition from Icehouse to Greenhouse state recorded in Gondwana sediments, Khalaspir Basin, Bangladesh Dhiman Roy
1400	#2847	Late Paleozoic tropical environment inferred from stable carbon and oxygen isotope records of brachiopod shells from Hubei, China Hong-Sheng Mii
1415	#2848	Rate of carbon emission during the Permian-Triassic mass extinction Ying Cui
1430		Discussion of topics in sub-symposium

4.5 - Session 2 - Geopollution, dust, and man made strata [includes IUGS Commission on Geoscience for Environmental Management (GEM) Working Group on Dust] 1300 - 1500

GeoExpo Hospitality Room 2

Time		
1300	#2849	<i>DustWatch - Measuring wind erosion across Australia using community-based science</i> John Leys (Keynote)
1330	#2850	Assessing sources of airborne mineral dusts and other aerosols, from Iraq Johann Engelbrecht
1345	#2851	Some impacts of dust from geological sources: an overview Brian Marker
1400	#2852	Discriminating mining and background dust in a semi-arid agricultural environment Stephen Cattle
1415	#2853	Remediation of the banks of the Mahoning River in northeast Ohio, USA Alan Jacobs
1430	#2854	Artificial macro-objects and anthropogenic activity at the shelves as significant factors affected natural sedimentation processes Vladimir Zhamoida

5.4 - Session 2 - Geosciences and computing – Free and open-source geospatial software 1300 - 1500

Boulevard Meeting Room 2

Time		
1300	#2855	Breaking the limits of dimensions: Large-Scale Multi-Dimensional Databases with rasdaman Peter Baumann
1315	#2856	Using Python for Open Source Software for Natural Hazard Risk Models Vanessa Newey
1330	#2857	Open source software for natural hazard risk models and tools Jane Sexton
1345	#2858	Free and Open Source Software for Geoinformatics in Geosciences . Operative and Academic Aspects. Gabriel Asato

THURSDAY 9 AUGUST 1300 - 1500 continued

1400	#2859	Thermo2Pro: A tool for geothermal exploration in basin context Philippe Calcagno
1415	#2860	STRAINDESK: a windows program for Finite strain analysis of rocks based on digital photomicrograph Zhiyong Li

5.6 - Session 10 - Data Analysis in the Geosciences 1300 - 1530 Plaza Auditorium

Time		
1300	#2861	<i>Mathematical and Statistical Aspects of Potential Modeling</i> Helmut Schaeben (Keynote)
1330	#2862	<i>Compositional Data Analysis: from closed data to the sample space approach</i> Juan José Egozcue (Keynote)
1400	#2863	Principal balances: a dimension reducing technique for compositional data Vera Pawlowsky-Glahn
1415	#2864	Quantifying spatial relationships between gold mineralisation and relevant control factors, St Ives goldfield, Western Australia Yingchao Liu
1430	#2865	<i>Visualising deep time data in a palaeogeographic context: challenges and the need for more structured data sets</i> Bruce Eglington (Keynote)
1500	#2866	<i>The Earth System Archive: A Description of the Evolving Earth System Since the Late Precambrian</i> Christopher Scotese (Keynote)

6.3 - Session 2 - Overview Nuclear Power and Waste Disposal Sponsored by CO2 CRC 1300 - 1500 Plaza Meeting Room 5

Time		
1300	#2867	<i>Siting criteria for geological disposal of Radwaste</i> Peter Styles (Keynote)
1330	#2868	Geological repository development - current stage of the main R&D activities in the Czech Republic Jitka Miksova
1345	#2869	PANEL SESSION: Status and Future of Nuclear Power

7.3 - Session 1 - Resource and reserve reporting, international codes and the valuation of mineral assets 1300 - 1500 Mezzanine Room 9

Time		
1300	#2870	Use of the JORC Code for Public Reporting Gerry Fahey
1315	#2871	Update of the ASX Listing Rules underpinned by SPE-PRMS Greg Horton
1330	#2872	<i>The United Nations Framework Classification for Fossil Energy and Mineral Reserves and Resources - The Global Code</i> James Ross (Keynote)
1400	#2873	United Nations Framework Classification for Fossil Energy and Mineral Reserves and Resources 2009 (UNFC-2009) applied to the total Norwegian National Petroleum Resource Base - a Pilot Per Blystad (Invited)
1415	#2874	The Chinese petroleum resource classification system and its practice experience Hua Yang

THURSDAY 9 AUGUST 1300 - 1500 continued

1430	#2875	BHP Billiton Public Reporting using the JORC Code Jillian Terry (Invited)
1445	#2876	Mapping Australia's National Mineral Resources Classification System and the CRIRSCO Template to the United Nations Framework Classification (UNFC) for energy and mineral resources Ian Lambert

8.4 - Session 2 - Advances in geochemical exploration 1300 - 1500 Mezzanine Room 2

Time		
1300	#2877	<i>Exploration hydrogeochemistry at the supergiant Pebble porphyry Cu-Au-Mo deposit in Alaska, using novel high-resolution ICP-MS</i> Robert Eppinger (Keynote)
1330	#2878	Mobile XRF methods in mineral exploration in glaciated terrain - examples from northern Finland Pertti Sarala
1345	#2879	Soil geochemistry of Quadrilátero Ferrífero region, Minas Gerais, Brazil João Larizzatti
1400	#2880	Detection of regional-scale alteration in the Bergslagen district (Sweden) using lithogeochemical data Martiya Sadeghi
1415	#2881	Gold exploration on metrological base and its advantages in practice (one example of new exploration technology application) Oleg Knauf
1430	#2882	Establishing archaeological prospectivity maps of past mining on the basis of EDA and fractal model applied to geochemical data Fabrice Monna
1445	#2883	Comparative Mineralogy and Geochemistry of Supergene Iron Ores and Banded Iron Formations - Significance for Prospecting Method Vusani Mathada

9.4 - Session 2 - Iron oxide copper-gold (IOCG) deposits; the unhappy family 1300 - 1500 Great Hall 4

Time		
1300	#2884	<i>System-scale similarity vs deposit-scale diversity in the Fe oxide(-P-Cu-Au-REE-U-Co) ~ IOCG clan</i> Mark Barton (Keynote)
1330	#2885	Targeting IOCG deposits in Australia: essential criteria and prospectivity mapping Roger Skirrow
1345	#2886	Anatomy and sulfur isotopic chemistry of a cross-section across the Mesoproterozoic Merlin Mo-Re deposit, Mt Isa Inlier, Australia Garry Davidson
1400	#2887	Fluid Constraints for the Merlin (Mo+Re) Deposit, Australia Joshua Greene
1415	#2888	U-REE deposits at Mount Isa: A redox continuum for IOCG+U deposits? Matt McGloin
1430	#2889	Uranium in IOCG and associated systems-A paragenetic study of the Northern Star deposit, Northern Territory, Australia. Hamish Johns

THURSDAY 9 AUGUST 1300 - 1500 continued

9.7 - Session 2 - Mineral deposits: episodes, accumulation of metals and related geodynamic processes in China and adjacent regions [IAGOD / IGCP-592]: Porphyry and skarn

1300 - 1515

Great Hall 3

Time		
1300	#2890	Porphyry-skarn Cu (Mo, Au) deposits in China Jingwen Mao
1315	#2891	Sequence stratigraphy and geochemistry of the Silurian to Triassic sedimentary rocks in Tongling, East China: constraint on the genesis of stratabound skarn deposits Yilun Du
1330	#2892	Spatial and temporal distributions and tectonic setting of Mesozoic porphyry copper systems in SE China Xiaofeng Li
1345	#2893	Iron isotope fractionation during skarn-type metallogeny: A case study of Tongling district in the Middle-Lower Yangtze valley Yue Wang
1400	#2894	Geochronology and isotopic geochemistry of the Pulang porphyry Cu deposit, Yunnan, China Xing-Chun Zhang
1415	#2895	<i>Hematite-magnetite intergrowth and porphyry copper deposits</i> Weidong Sun (Keynote)
1445	#2896	U-Pb and Re-Os geochronology and geodynamic setting of the Huaniushan skarn gold deposit in Northwestern China Jiang Zhu
1500	#2897	Inhomogeneous lithospheric thinning in the central North China Craton: Zircon U-Pb and S-He-Ar isotopic record from magmatism and metallogeny in the Taihang Mountains Shengrong Li

10.1 - Session 2 - Finding resources, making reserves *Sponsored by Rio Tinto*

1300 - 1500

Mezzanine Room 3

Time		
1300	#2898	"Measure for Measured" - Geostatistical coal resource classification in the Bowen Basin Stella Marris Martinez
1315	#2899	Geotechnical characterisation from borehole logging data for coal mining applications Binzhong Zhou (Invited)
1330	#2900	Drilling induced fractures in coal core, and a simple method of using these in conjunction with bore-wall breakout to determine cleat and principal horizontal stress relationships and azimuths in vertical drill-holes. David Titheridge (Invited)
1345	#2901	Hydrothermal origin of mineral matter in coals of the South Walker Creek area, northern Bowen Basin, Australia Colin Ward (Invited)
1400	#2902	Coal petrology and beneficiation studies of low volatile high rank coals of Damodar Valley basin: Implication for augmentation of coking coal resources in India Hrusikesh Mishra
1415	#2903	High-resolution three-dimensional imaging of coal samples using microfocus X-ray computed tomography, with special reference to mapping of mineral components Colin Ward
1430	#2904	Improved Understanding of Coal Exploration Samples by Coal Grain Analysis Graham O'Brien
1445	#2905	Evaluation of mineral matter behaviour during coal utilisation David French

THURSDAY 9 AUGUST 1300 - 1500 continued

11.6 - Session 2 - Putting the geo into geophysics - adding clout through better datasets and joint interpretation

1300 - 1500

Arbour Meeting Room 2

Time		
1300	#2906	Potential fields and lithospheric stress anomalies derived from hybrid density models Sabine Schmidt
1315	#2907	Features of oil and gas search on salt domes Marat Mailibayev
1330	#2908	Joint 3D modeling of salt dome section of Precaspian Depression using seismic, gravimetric, magnetometric and electrometric data for exploration hydrocarbon deposits Rustem Atuov
1345	#2909	Seismic-sedimentologic Interpretation of Fluvial Sedimentary Architectures with Seismic, Well and GPR Data XianGuo Zhang
1400	#2910	Comprehensive geophysics application on prediction of the total organic carbon content of source rocks: a case study from Huizhou Depression in the Pearl Mouth Basin, South China Sea Sihuang Xu
1415	#2911	Acquisition technique test of 2-D seismic survey and its progress in Qiangtang basin, northern Tibet Zhongxiong Li
1430	#2912	<i>Integrated analysis of seismic, well and CSEM data for reservoir characterisation</i> Lucy MacGregor (Keynote)

12.4 - Session 1 - Heavy oil and oil shale

1300 - 1515

Mezzanine Room 4

Time		
1300	#2913	Reducing uncertainty and optimizing development of a super-giant karsted carbonate bitumen reservoir: the Grosmont Formation, Alberta, Canada. Jennifer Russel-Houston
1315	#2914	Athabasca oil sands deposit: reservoir charge, entrapment and biodegradation - new insights about processes and products with implications to reservoir developments Milovan Fustic
1330	#2915	<i>Optimization of heavy oil and oil sands recovery: examples from Western Canada</i> Rudy Strobl (Keynote)
1400	#2916	Comprehensive utilization of oil shale resources in China Weiwei Bao
1415	#2917	A new efficient Three-phase Separator of Shale Oil Wanghao Shen
1430	#2918	A new approach to utilize oil shale ash: synthesis of micron flower-like γ -Al ₂ O ₃ superstructures from oil shale ash Mengmeng Li
1445	#2919	Synthesis of silica hollow microspheres by using sodium silicate as silicon source extracted from the oil shale ash Haifeng Zou
1500	#2920	Neoproterozoic source rocks of the Cis-Patom Foredeep oil and gas sources in the south-eastern Siberian Platform Inna Kozhevnykh

THURSDAY 9 AUGUST 1300 - 1500 continued

13.9 - Session 1 - River-dominated shelf sediments in Asian seas

1300 - 1500

Boulevard Room

Time		
1300	#2921	Formation vs. long-term fate of sedimentary depocenters in SE Asia (W' South China Sea in particular) Till Hanebuth (Keynote)
1330	#2922	Microfossil facies and depositional environment at the northern continental shelf of the South China Sea during the Last Glacial Cycle Michal Tomczak
1345	#2923	Sediment transport and reworking in the Pearl River and the northern South China Sea Shelf Peter Clift
1400	#2924	Holocene sedimentary systems of the Bohai, Yellow and East China Seas, eastern Asia Shu Gao (Keynote)

14.4 - Session 1 - Passive to hyper-extended continental rift margins in the geological record: their recognition, diagnostic elements and comparison with modern day analogues: Present-day Case Studies

1300 - 1500

Plaza Meeting Room 6

Time		
1300	#2925	Similarities and differences between key Atlantic margins: a review of observations and concepts Gianreto Manatschal (Keynote)
1330	#2926	The Bay of Biscay-Western Pyrenees: from hyper-extension to compressional reactivation Julie Tugend
1345	#2927	Potentials methods and crustal structure in the southeast Brazil, continental margin of Santos Basin. Saulo Alves Carreiro De Araujo
1400	#2928	Hyper-extended non-volcanic passive margins of East Antarctica German Leychenkov
1415	#2929	Variations in rift symmetry: cautionary examples from the Southern Rift System (Australia-Antarctica) Nick Direen
1430	#2930	Mesozoic stratigraphy and paleogeography of the Khatm El Shiklah tectonic window, UAE-Oman border zone: exotic limestones and seamount activity. Osman Abdelghany

15.2 - Session 1 - Large asteroid impacts and crustal evolution: Precambrian extra-terrestrial impacts

1300 - 1500

Plaza Meeting Room 8

Time		
1300	#2931	Global consequences of large Archean impacts H. Jay Melosh (Keynote)
1330	#2932	Seven giant impact fallout layers in the mid-Archean Donald R. Lowe (Keynote)
1400	#2933	Geochemistry and petrology of Paleoarchean impact deposits and implications for the environment of the early Earth Alexandra Davatzes (Keynote)
1430	#2934	Asteroid clusters: from the Late Heavy Bombardment to the end-Eocene Andrew Glikson

THURSDAY 9 AUGUST 1300 - 1500 continued

15.5 - Session 5 - Orogens and orogenesis: accretionary, cordilleran and collisional processes, products

1300 - 1500

Great Hall 1&2

Time		
1300	#2935	Uplift and gravitational collapse of the Pamir: Insight from thermotectonic analysis along the China-Pakistan Highway corridor Geoffrey Batt
1315	#2936	Arc/fore-arc deformation at the transition between collision and subduction David Boutelier
1330	#2937	Subduction dynamics and the origin of Andean orogeny and Bolivian Orocline Fabio A. Capitanio
1345	#2938	Lithospheric Structure of Taiwan From Geology, Tomography and Seismicity Sara Carena
1400	#2939	Temperature Inversion beneath Tibet Explains Bimodal Distribution of Earthquake Depths Wang-Ping Chen
1415	#2940	Moho, Seismogenesis, and Rheology of the Lithosphere Wang-Ping Chen (Invited)
1430	#2941	Three-dimensional fluid dynamic laboratory models of subduction, mantle flow and overriding plate deformation Joao Duarte
1445	#2942	Energy dissipation in viscoelastic plates during subduction Rebecca Farrington

16.2 - Session 2 - Fluids in the lithospheric mantle

1300 - 1500

Plaza Meeting Room 7

Time		
1300	#2943	Formation of granitic melt in ultrahigh-pressure metasediments Hans-Joachim Massonne
1315	#2944	Geochemistry and Microstructure of Diamondites Ekaterina Rubanova
1330	#2945	Deep Geological Processes for Laowangzhai Gold Depoist in Yunnan, China Xianfan Liu
1345		DISCUSSION for Symposia 16.3, 16.5 and 16.2

18.2 - Session 2 - The Neoproterozoic Earth

1300 - 1515

Plaza Meeting Room 11

Time		
1300	#2946	<i>Neoproterozoic stem-group animals between ice and oxygen</i> Shuhai Xiao (Keynote)
1330	#2947	Ediacaran palaeomagnetism: TPW or APW? Phillip Schmidt (Invited)
1345	#2948	Magnetochronology of the Neoproterozoic Grenville dyke swarm Henry Halls
1400	#2949	Amundsen Basin of northern Canada with comparison to the Amadeus Basin of central Australia: remnants of supercontinent Rodinia's epeiric sea Robert Rainbird
1415	#2950	Mid-Cryogenian glaciation in southeastern Siberia: relation to Neoproterozoic Paleoasian ocean opening Julius Sovietov

THURSDAY 9 AUGUST 1300 - 1500 continued

1430	#2951	Correlation of Ediacaran strata between South Australia and Death Valley Charles Verdel
1445	#2952	The influence of Gondwanan tectonism on climate during the Neoproterozoic-early Paleozoic transition Ryan McKenzie
1500	#2953	Reconstruction of an early Neoproterozoic carbonate-evaporite ramp from Northwest Territories, Canada. Danielle Thomson

19.1 - Session 1 - Advances in isotope chemistry and geochronology

1300 - 1500

Plaza Meeting Room 2

Time		
1300	#2954	<i>238U/235U variation and the U-Pb chronometer</i> Daniel Condon (Keynote)
1330	#2955	SHRIMP U-Pb xenotime analysis: calibrating a path through severe multi-element matrix effects Andrew Cross
1345	#2956	Laser ablation imaging in geochronology and isotope geochemistry Jon Woodhead
1400	#2957	Ion imaging of Pb isotopes illuminates complexity of zircon geochronology Monika A. Kusiak
1415	#2958	High precision isotope ratio measurements of Sr and Nd at the nanogram level using the Phoenix TM TIMS with next generation Faraday detectors. Zenon Palacz
1430	#2959	Advances in in-situ Re-Os isotope ratio measurements by LA-MC-ICP-MS Norman Pearson
1445	#2960	Boron isotopes as indicators of possible precursors to boron-rich granulite-facies Neoproterozoic paragneisses from the Larsemann Hills, Prydz Bay, East Antarctica Edward Grew

20.2 - Session 1 - Radar in planetary exploration

1300 - 1500

Mezzanine Room 5

Time		
1300	#2961	Combining RADAR Imaging with Near-Infrared Spectroscopy for Interpretation of Surface Geology on Saturn's Moon Titan Jason W. Barnes
1315	#2962	Dunes and mountains on Titan from Cassini SAR reveal active processes Jani Radebaugh
1330	#2963	Spaceborne Radar observations of Impact Craters on Earth and Titan Ralph Lorenz
1345	#2964	Bistatic radar observations of the Moon's polar regions using Arecibo and Mini-RF. Ben Bussey
1400	#2965	New lunar impact melt flows as revealed by Mini-RF on LRO Catherine Neish
1415	#2966	<i>Penetrating Insights from Planetary Radar</i> Ralph Lorenz (Keynote)

THURSDAY 9 AUGUST 1300 - 1500 continued

21.1 - Session 2 - Bruce Chappell Symposium. Felsic magmas: petrogenesis to metallogenesis: Processes

1300 - 1500

Plaza Meeting Room 9

Time		
1300	#2967	<i>Geochemical variation in strongly differentiated I- and S-type granites—nature or nurture?</i> David Champion (Keynote)
1330	#2968	Magma differentiation through concurrent fractional and equilibrium crystallisation Lian-Kun Sha
1345	#2969	Anomalous sodic, zirconium-rich intrusives adjacent to the Gilmore Fault Zone, Lachlan Fold Belt, SE Australia: Implications for the Temora Zircon standard Richard Wormald
1400	#2970	Element Fractionation Between Immiscible Melts In The K ₂ O-CaO-Al ₂ O ₃ -SiO ₂ -TiO ₂ -ZrO ₂ System Andrew Christy
1415	#2971	The geochemical nature of apatites in high Sr/Y two-mica granites from the North Himalayan Gneiss Dome, southern Tibet Lingsen Zeng
1430	#2972	Igneous pyrometamorphism: Implications for hydrocarbon exploration in NE Brazil Zorano De Souza
1445	#2973	Geochronological and geochemical evidence for a regional hydrothermal event during the 1590-1560 Ma Chewings Orogeny in the central Arunta Region, Northern Territory Eloise Beyer

22.4 - Session 2 - Quantification of extreme metamorphism and implications for tectonics

1300 - 1500

Plaza Meeting Room 10

Time		
1300	#2974	UHP Metamorphism: Subduction or Collision? Klaus Regenauer-Lieb
1315	#2975	The protolith nature of UHP metamorphic terranes is a key to their geometric size, metamorphic duration and collisional type in continental subduction zones Yong-Fei Zheng
1330	#2976	<i>Post-Collisional Exhumation of the world's youngest UHP terrane in the Woodlark Rift, Papua New Guinea</i> Timothy Little (Keynote)
1400	#2977	Rift-triggered exhumation of eclogite-bearing gneiss domes in eastern Papua New Guinea: Constraints from regional geology and patterns of thermochronologic data Paul Fitzgerald
1415	#2978	Transformation of Felsic Continental Crust During Ultrahigh-Pressure Metamorphism David Young
1430	#2979	Zircon as the best mineral for P-T-t history of the Dabie-Sulu UHP terrane Fulai Liu
1445	#2980	Geochemical constraints on partial melting of HT/UHP eclogite in the Dabie orogen during exhumation Xiaofeng Gu

23.8 - Session 1 - Cenozoic marine environments

1300 - 1500

Qld Museum Theatre

Time		
1300	#2981	Marine planktic diatoms of the earliest Oligocene: northern high latitudes versus southern high latitudes Andrey Gladenkov

THURSDAY 9 AUGUST 1300 - 1500 continued

1315	#2982	Paleogene and Neogene climatic fluctuations in the North Pacific: biotic evolution and paleogeographic changes Yury Gladenkov
1330	#2983	<i>Climate and evolution in the Cenozoic ocean</i> Paul Pearson (Keynote)
1400	#2984	A nutrient trigger for CO ₂ decline and East Antarctic Ice Sheet instability from 32 to 27 million years ago Stephen Gallagher
1415	#2985	Larger foraminiferal extinctions as indicators of eustatic sea level fall: new strontium isotope age evidence from the middle Miocene of the Papuan Basin, Papua New Guinea Tony Allan
1430	#2986	Middle Miocene environmental change in the eastern Atlantic Ocean at the Porcupine Basin (IODP Leg 307): results from an integrated palynological and biogeochemical study Willemijn Quaijtaal

24.2 - Session 2 - Ancient reefs

1300 - 1500

Mezzanine Room 8

Time		
1300	#2987	<i>Accretion rates and coral community structure are decoupled on Indo-Pacific Holocene coral reefs</i> John Pandolfi (Keynote)
1330	#2988	A +11 m late-Pleistocene sea-level highstand recorded in fossil coral reefs and coastal deposits from Mayaguana, Great Inagua, and Crooked Islands, SE Bahamas Pascal Kindler
1345	#2989	Accretionary reef or erosional platform: Coral terraces in Niue (SW Pacific) and their formation in relation to sea level David Kennedy
1400	#2990	Holocene "turn-on" and evolution of the Southern Great Barrier Reef: Revisiting reef cores from the Capricorn Bunker Group Belinda Dechnik
1415	#2991	Mid Eocene Bryozoan Build-ups in the Great Australian Bight: Implications for Paleoenvironments, Continental Drainage Evolution and Early Southern Ocean Currents. Alexander Sharples
1430	#2992	Atypical carbonates from the Golfe d'Arguin, Mauritania Claire Reymond
1445	#2993	Depositional history of the Zhangxia Formation (Cambrian), China: evolution of a microbial carbonate-dominated platform Jusun Woo

25.6 - Session 1 - Marine minerals in Oceania

1300 - 1500

GeoExpo Hospitality Room 1

Time		
1300	#2994	Status, Challenges and Opportunities of Deep Sea Minerals Development in the Pacific Islands Region Akuila Tawake
1315	#2995	From nanoparticles via microtemplates and milliparticles to deep-sea nodules: biogenically driven mineral formation Xiaohong Wang
1330	#2996	<i>Resource considerations for ferromanganese crusts in Oceania</i> James Hein (Keynote)

THURSDAY 9 AUGUST 1300 - 1500 continued

1400	#2997	Geochemical anomalies of California margin ferromanganese crusts relative to global open-ocean crusts Tracey Conrad
1415	#2998	Marine Phosphate on the Chatham Rise, New Zealand - Exploration and Mining Developments Ray Wood
1430	#2999	Properties and economic potential of glauconite on central Chatham Rise, New Zealand Campbell Nelson
1445	#3000	Rare Earth Element Geochemistry of Seawater from Afanasy- Nikitin Seamount in Eastern Equatorial Indian Ocean Balaram Vysetti

26.2 - Session 2 - Polar climate archives and their global significance

1300 - 1515

Mezzanine Room 6

Time		
1300	#3001	Geology of southern Victoria Land, Antarctica: a new dataset for studies of glacial dynamics and climate change Simon C. Cox
1315	#3002	New sea ice estimates over the last 49ky in the Southeast Indian Ocean sector of the Southern Ocean. Leanne Armand
1330	#3003	Middle Pleistocene evolution of the Antarctic Circumpolar Current and Weddell Gyre Minoru Ikehara
1345	#3004	Diatom-based insights on orbital forcing of Plio-Pleistocene ice sheet variability Matthew Konfirst
1400	#3005	Orbital controls on the Plio-Pleistocene variability of the Wilkes Land margin of the East Antarctic Ice Sheet Robert McKay
1415	#3006	Contrasting Histories of the Larsen A and Larsen B Ice Shelves based on marine sediment records Amy Leventer
1430	#3007	Sedimentary environments beneath the Amery Ice Shelf, East Antarctica throughout the Holocene Alexandra Post
1445	#3008	Evolution of LGM subglacial environments in Eastern Antarctica archived in calcites Silvia Frisia
1500	#3009	Association of Deccan Flood Volcanism, Climate, and Extinction at High Southern Latitudes Joseph Kirschvink

27.1 - Session 2 - Biogeochemical cycling and Bioprocessing technologies

1300 - 1500

Plaza Meeting Room 3

Time		
1330	#3010	<i>Rapid biogeochemical cycling in hyper-Fe enriched coastal wetlands link mineralisation and pedogenic pathways</i> Richard Bush (Keynote)
1400	#3011	Molecular diversity of fungal phylotypes co-amplified alongside nematodes from coastal and deep-sea marine environments Punyasloke Bhadury
1415	#3012	Floc associated microbial Fe redox cycling across wide ranging pH and oxygenated conditions Amy Elliott

THURSDAY 9 AUGUST 1300 - 1500 continued

28.4 - Session 2 - Groundwater for energy and mining

1300 - 1500

Meeting Room S1

Time		
1300	#3013	Hydrochemical Compatibility assessments of aquifer injection of treated coal seam gas water into Surat Basin Aquifers David Harris
1315	#3014	Dynamical approaches to engineering fluid transport processes in the subsurface Mike Trefry
1330	#3015	The optimal allocation of multiple water resources in western mining areas, China Shangxian Yin
1345	#3016	A Groundwater-Source Heat Pump System with Enhanced Aquifer Thermal Energy Storage (E-ATES) for Cooling and Heating of Shinshu University Building Akira Tomigashi
1400	#3017	Developing Understanding of Feasibility of Aquifer Injection in Surat Basin Ryan Morris
1415	#3018	Deep palaeovalley groundwater - a new resource for central Australia? Steven Lewis
1430	#3019	Groundwater investigations in Australia's arid zone palaeovalley aquifers Steven Lewis (Invited)

29.3 - Session 2 - Regolith/landform evolution and clay minerals

1300 - 1500

Arbour Meeting Room 1

Time		
1300	#3020	Research of the aluminum-silicate additives influence on improvement of sorption properties of clays Ivan Brazhnik
1315	#3021	<i>Spectral logging and 3D modelling of clay mineral distribution in Mesoproterozoic sandstones of the Cariewerloo Basin, South Australia - implications for uranium mobilisation</i> John Keeling (Keynote)
1345	#3022	Ammonium illite in coal-bearing strata of China and its geological significance Qinfu Liu
1400	#3023	Synthesis of organoclays and removal of p-nitrophenol from aqueous solution Yuri Park
1415	#3024	Smectite particles orientation and network texture in aqueous suspension. Frederick Theiss

30.5 - Session 2 - Geohazard risk analysis: the state of the art

1300 - 1500

Plaza Terrace Room

Time		
1300	#3025	<i>Natural Hazard Loss Modelling using RiskScape New Zealand</i> Andrew King (Keynote)
1330	#3026	Hazard assessment, monitoring and rapid mapping of natural and man-made structures Stefano Morelli
1345	#3027	Comprehensive environmental risk analysis through integration of geologic vulnerability analysis and air, soil, and water contaminant risk factor derivation Daniel Rogers
1400	#3028	Management Strategies Applied to Slope Instability affecting State-Controlled Roads in Queensland Jared Lester

THURSDAY 9 AUGUST 1300 - 1500 continued

1415	#3029	Geohazards Susceptibility Mapping Using Entropy Approach in Wufeng County, Hubei Province, P.R. China Ningtao Wang
1430	#3030	Terrain motion measurements - services to society: PanGeo project Ruth Allington
1445	#3031	The Global Earthquake Model (GEM); working together to assess risk John Schneider (Invited)

31.6 - Session 1 - Interaction of engineering geology and geomechanics: Rock mechanics 1300 - 1500 Plaza Meeting Room 4

Time		
1300	#3032	<i>The importance of good geotechnical soil profiling for geomechanical design</i> Philip Paige-Green (Keynote)
1330	#3033	Influence of sample size on mechanisms observed for compressive failure of crystalline rock: implications for upscaling of testing results for rock engineering design Daniel Viète (Invited)
1345	#3034	Effect of microstructural and mineralogical features on the mechanical behaviour of rocks under static and cyclic Loading Nazife Erarslan
1400	#3035	Field test of side friction of piles socketing in moderate weathered granite Yu Yang
1415	#3036	Blockiness level of the rock mass around the underground powerhouse of the Three Gorges Project Lu Xia
1430	#3037	About ultimate strength of layered and cracked rocks Petru Ciobanu

32.2 - Session 1 - Energy and Resource Environment: Hydrocarbon exploration 1300 - 1515 Plaza Meeting Room 1

Time		
1300	#3038	<i>Spectral sensing of Athabasca oil sands</i> Benoit Rivard (Keynote)
1330	#3039	Offshore oil exploration and monitoring through optical remote sensing: advances using reflectance and emissivity measurements Talita Lammoglia (Invited)
1345	#3040	Detection of oil from the Deepwater Horizon incident and characterization of impacts on wetland ecosystems using airborne imaging spectrometer data Raymond Kokaly (Invited)
1400	#3041	Identification of offshore natural seepages from SAR imagery Damien Dhont
1415	#3042	Study on remote sensing detection methods of oil & gas hydrocarbon microseepage on northern surface of South China Sea Yueliang Ma
1430	#3043	Spectral responses of vegetation grown over natural microseepages: Insights from leaf to canopy measurements with proximal ultraspectral, airborne hyperspectral and orbital multispectral remote sensing in Brazil Carlos Souza Filho
1445	#3044	<i>Imaging Spectroscopy for Soil Mapping: Problems and Progress</i> Eyal Ben Dor (Keynote)

THURSDAY 9 AUGUST 1300 - 1500 continued

36.3 - Session 1 - Greater Altai – a unique rare-metal-gold-polymetallic province in Central Asia
[National Committee of Kazakhstan Geologists]

1300 - 1500

Mezzanine Room 1

Time		
1300	#3045	Regional zoning in the distribution of zinc and titanium in rocks of Leninogorsky and Zyryanovsky ore regions of Rudny Altai (Kazakhstan). Implication for genesis and exploration Grigory Abramson
1315	#3046	Metallogeny of the Greater Altai – the law of formation and the condition of localization of ore deposits Boris Dyachkov
1330	#3047	Nearfault Metasomatites of Chinghiz Megasuture: Metallogenic and Geodynamic Significance Ilya Fishman
1345	#3048	Prediction-and-search geological-geochemical models of massive sulfide polymetallic deposits of Rudny Altai (Altai Ore) and prediction criteria Arkady Golovin
1400	#3049	About the geological criteria and prospecting indicators of bulk-mineable porphyry copper deposits Berikbol Khamzin
1415	#3050	PRESENTATION CANCELLED
1430	#3051	Analyzing regional characteristics of thermal field in the Rudny Altai based on remote sensing data and it's correlation with presence of ore Vitaliy Petrovskiy
1500 - 1530		BREAK

THURSDAY 9 AUGUST 1530 - 1730

1.1 - Session 4 - Sustainable use of Geoheritage - geodiversity, education and geoconservation in World Heritage Properties, Geoparks, and by local planning authorities

1530 - 1730

Boulevard Auditorium

Time		
1530	#3052	The small scale in geoheritage and the geoconservation of crystals, fossils, micro-fossils, and other small-scale geological features in their context Vic Semeniuk
1545	#3053	Geoconservation and education in protected areas from Romania Antoneta Seghedi
1600	#3054	International designation of heritage dimension stones: the examples of Portland Stone and Welsh Slate from the United Kingdom Barry Cooper (Invited)
1615	#3055	Using geology to conserve architectural stone heritage: the example of Salamanca, Spain Dolores Pereira (Invited)
1630	#3056	Geoparks after the International Year of Planet Earth and the 'Earth Science Matters' (ESM) Initiative Wolfgang Eder

THURSDAY 9 AUGUST 1530 - 1730 continued

1.5 - Session 2 - Gemstones
1530 - 1730
F1 - Training Room

Time		
1530	#3057	Geographic typing of gem corundum:possibilities and pitfalls Frederick Lin Sutherland
1545	#3058	Natural pearls from Bahrain Stefanos Karampelas
1600	#3059	Optimization of PIXE quantitative system to assist the traceability of pearl and other gemstones Satoshi Murao
1615	#3060	Alexandrite of Indian origin Jayshree Panjikar

3.7 - Session 2 - Pre-Mesozoic Climates and Global Change (IGCP 591): Basin evolution, Paleooceanography and Paleoclimate
1530 - 1730
Boulevard Meeting Room 1

Time		
1530	#3061	<i>Silurian sequence and event stratigraphy: a global summary with examples from the Wenlock Series of the Midland Platform, England</i> David Ray (Keynote)
1600	#3062	Record of second order climate change in intra-basaltic paleosols of the Middle to Upper Ordovician Dunn Point Formation, Arisaig, Nova Scotia, Canada Pierre Jutras
1615	#3063	Reconstructing the climate of the Ordovician Thijs Vandenbroucke
1630	#3064	Changing oceanic conditions through the Late Ordovician glaciation into the earliest Silurian global anoxic event Michael Melchin
1645	#3065	LA ICP-MS-U-Pb data of detrital zircon and 40Ar/39Ar ages combined with C and Sr isotopes in the Neoproterozoic Mbuji-Mayi Supergroup (Democratic Republic of Congo): implications for basin evolution Alain Pr��at
1700		Discussion of topics in sub-symposium
1715	#3066	IGCP 591: Project presentation and discussion

4.5 - Session 3 - Geopollution, dust, and man made strata [includes IUGS Commission on Geoscience for Environmental Management (GEM) Working Group on Dust]
1530 - 1730
GeoExpo Hospitality Room 2

Time		
1530	#3067	Does reworking of old anthropogenic deposits affect the composition of modern sediments? The case of Aliveri Gulf, Central Greece Stavros Kalaitzidis
1545	#3068	Re-pollution by Ground Wave 'Jinami' at the Remediation Site of Diphenylarsinic Acid (DPAA) Geopollution in man made strata, Kamisu, Japan Tomoyo Hiyama
1600	#3069	Liquefaction-Induced Ground Deformation: Impact of the 2011 Tohoku Earthquake on Reclaimed Land, Urayasu Area, Tokyo Bay, Boso Peninsula, Japan Atsushi Kagawa
1615	#3070	Geological Disaster by Liquefaction-Fluidization Phenomena on Boso Peninsula, Japan at The 2011 off the Pacific Earth quake -Reclaimed land of former Tone River bed- Kunio Furuno

THURSDAY 9 AUGUST 1530 - 1730 continued

1630	#3071	The process of Liquefaction-Fluidization and Jinami on the spot observation of the phenomena during the 2011 Earthquake off the Pacific Coast of Tohoku Osamu Kazaoka
1645	#3072	Groundwater level in the artificial valley fills in the Quaternary upland area, Katori, Japan Kazuya Kimura
1700	#3073	Comparative research of dechlorination reaction characteristic at three VOCs groundwater pollution site in NODA city Hiroshi Takashima

5.4 - Session 3 - Tools – software, hardware, open source

1530 - 1730

Boulevard Meeting Room 2

Time		
1530	#3074	A New Approach to Automating the Production of Geological Maps for South Australia Laszlo Katona
1545	#3075	Parallel computation of hyperspectral remote sensing mineral mapping algorithm based on GPU Youhua Wei
1600	#3076	Successfully Transforming the Earth Science Community into Petascale Computing and Beyond. Robert Woodcock
1615	#3077	Geological maps of Mexico: a matter of value Enrique Espinosa
1630	#3078	Digital mapping of Quaternary deposits at the Geological Survey of Norway: a digital workflow from field observation to database and printed map Renata Lapinska-Viola
1645	#3079	Direct entry, flexibility and instant integration of field data at the point of collection Anthony Shellshear
1700	#3080	International Convergence on Geoscience Cyberinfrastructure Lee Allison
1715	#3081	Linking advanced spatio-temporal data analysis tools to the Australian Solid Earth and Environment Grid for understanding 4D metallogenesis Thomas Landgrebe

5.6 - Session 11 - International Association for Mathematical Geosciences (IAMG) Awards

1530 - 1730

Plaza Auditorium

Time		
1530	#3082	The John Cedric Griffiths Teaching Award is presented to honour outstanding teaching, especially in the applications of mathematics or informatics to natural resources or to sedimentary geology. Award Talk: Potential Modeling, Conditional Independence and Graphical Models Helmut Schaeben
1630	#3083	The William Christian Krumbein Medal is the highest award given by the IAMG and is awarded to senior scientists for career achievement. Award Talk: Successes and challenges in the application of multivariate statistics to multi-element geochemical data. Eric Grunsky

THURSDAY 9 AUGUST 1530 - 1730 continued

6.3 - Session 3 - Geosciences in Radwaste Disposal *Sponsored by CO2 CRC*

1530 - 1730

Plaza Meeting Room 5

Time		
1530	#3084	Siting a geological repository for radioactive wastes in a tectonically active country Junichi Goto
1545	#3085	Assessing tectonic hazard to possible geological repositories for radioactive wastes in Japan: the Topaz Project Junichi Goto (Invited)
1600	#3086	Uncertainties in hydrodynamics and hydrochemistry in granites considered as a host rock for spent nuclear fuel in the Czech Republic Tomas Paces
1615	#3087	Evolution and long-term stability of flow-path fractures in crystalline rocks: a scientific basis for suitable siting and site characterization of the orogenic field of Japan Hidekazu Yoshida
1630	#3088	Low-grade metamorphic slates, a potential host-rock for high-level and/or long-lived radioactive waste disposal Manuel Sintubin

7.3 - Session 2 - Resource and reserve reporting, international codes and the valuation of mineral assets

1530 - 1730

Mezzanine Room 9

Time		
1530	#3089	Trends in Australia's national inventory of mineral resources Aden McKay
1545	#3090	Peak Global Resource Production - is there a problem? David Denham
1600	#3091	<i>The role of CRIRSCO and its Template</i> Ian Goddard (Keynote)
1630	#3092	The revision of the JORC Code - the way forward. Peter Stoker
1645	#3093	Mineral Resource Estimation and Reporting - where next ? Edmund Sides (Invited)
1700	#3094	Reconciling ore reserve statement changes Karl Smith
1715	#3095	Economic-geological assessment of mineral deposits in Ukraine Georgii Rudko

8.4 - Session 3 - Advances in geochemical exploration

1530 - 1730

Mezzanine Room 2

Time		
1530	#3096	<i>How, why, when and where does gold associate with calcrete (caliche)?</i> Melvyn Lintern (Keynote)
1600	#3097	Gold in termite nests, Moolart Well, Western Australia: implications for exploration Aaron Stewart
1615	#3098	A Test of the Metals In Soil Gas (MSG) at Mt. Isa Mine, Australia Mingqi Wang
1630	#3099	Extractability of metals by bulk cyanide leach (BCL) and the effects of soil properties on extraction Andrew Rate

THURSDAY 9 AUGUST 1530 - 1730 continued

1645	#3100	Laser ablation ICP-MS analysis of ruthenium in chromite - a new tool in the exploration for komatiite-hosted nickel-sulphide deposits Marek Locmelis
1700	#3101	Investigations into the potential for perched unconformity-related uranium mineralisation in the Cariewerloo Basin, South Australia Tania Wilson
1715	#3102	Application of Concentration-Area Fractal method for determination of Fe geochemical anomalies and the background in Zaghia area, Central Iran Behnam Sadeghi
9.6 - Session 1 - Global sulfur cycle and impact on metallogenesis 1530 - 1800 Great Hall 4		
Time		
1530	#3103	Working with the source rock record Holly J Stein
1545	#3104	Two zones of sulfur release from subducting oceanic crust Andrew Tomkins
1600	#3105	<i>The deep sulfur cycle and implications for the origin of ore deposits and the redox state of arc magmas</i> Cin-Ty Lee (Keynote)
1630	#3106	Metamorphic mobility of gold in the Dalradian of Scotland: Sulfide paragenesis and implications for formation of orogenic gold deposit Iain Pitcairn (Invited)
1645	#3107	Banded Iron Formation to Iron Ore: Implications for the Evolution of Earth Environments Katy Evans (Invited)
1700	#3108	The origin of concentrically laminated pyrite in the Witwatersrand Basin: in situ SIMS multiple S and Fe isotope evidence Andrea Agangi
1715	#3109	Speciation and thermodynamic properties of d10 transition metals: insights from ab-initio Molecular Dynamics simulations Yuan Mei
1730	#3110	<i>Earth's evolving sulfur cycle and the secular distribution of sediment-hosted zinc-lead-silver deposits</i> David Leach (Keynote)
9.7 - Session 3 - Mineral deposits: episodes, accumulation of metals and related geodynamic processes in China and adjacent regions [IAGOD / IGCP-592]: VHMS, W, Sn, REE, regional, etc. 1530 - 1745 Great Hall 3		
Time		
1530	#3111	Geology and characteristics of the Tasik Chini deposit, Pahang District, Peninsular Malaysia: A typical style of VHMS mineralisation Mohd Basril Iswadi Basori (Invited)
1545	#3112	Types, geochemical characteristics and age of cobalt mineralization of the South Siberia. Irina Tretiakova
1600	#3113	Can small volume carbonatite melts cause giant REE mineralization? Yuling Xie
1615	#3114	Copper mineralization in the Gejiu district, SW China Yanbo Cheng
1630	#3115	The Shagou Ag-Pb-Zn vein deposit in the Xiong'ershan District, southern North China Craton: A genetic link to crustal extension Zhanke Li

THURSDAY 9 AUGUST 1530 - 1730 continued

1645	#3116	Geodynamic control of ore deposits in the Altaids of China and adjacent regions Reimar Seltnann (Keynote)
1715	#3117	Geochemical zoning in Pyrite-anhydrite-magnetite-pyroxene-type deposits in Mesozoic volcanic basins, Yangtze River Valley, China Xuetong Zhang
1730	#3118	Barbotage in hydrothermal ore-forming processes Vsevolod Prokofiev
10.2 - Session 1 - 10.2 Coal – a Record of Change 1530 - 1730 Mezzanine Room 3		
Time		
1530	#3119	High precision U-Pb isotopic ages of Permian-Triassic events in Eastern Australia: A chronological framework for energy resources Ian Metcalfe (Keynote)
1600	#3120	Using high precision CA-IDTIMS zircon age determination to interpret correlation and depositional rates in Permian coal sediments of the Sydney, Gunnedah and Bowen basins Bob Nicoll
1615	#3121	Late Permian-Early Triassic palynology of the Bowen and Sydney basins: more CA-IDTIMS isotopic ages Clinton Foster
1630	#3122	Delta13C record through the late Permian Coal Measures - Bowen Basin, implications for tectonic, climatic and environmental change Nikola Van De Wetering
1645	#3123	Linking Permian magmatic activity in the southern New England Orogen with ash-fall tuff horizons in the Bowen, Gunnedah and Sydney Basins Phil Blevin
1700	#3124	Palaeo-fires and atmospheric oxygen level in the latest Permian: Evidence from maceral compositions of coals in eastern Yunnan, southern China Longyi Shao
1715	#3125	Quaternary Ice Age - the last cold phase of the Valach climatic cycle (with about 4.1 ma period), caused by the possible pulsations of the Solar System Mircea Ticleanu
11.3 - Session 1 - Petroleum system modelling; geochemistry, basins and source rock 1530 - 1730 Arbour Meeting Room 2		
Time		
1530	#3126	<i>Theoretical aspects of petroleum system modeling for unconventional resources</i> Kenneth Peters (Keynote)
1600	#3127	Practical applications of petroleum system modeling for unconventional resources Bjorn Wygrala
1615	#3128	Role of strike-slip faults in petroleum system development: insights from 3D basin modelling in the Salinas Basin, California Tess Menotti
1630	#3129	Forearc basin and petroleum system modeling in offshore Hawke Bay, North Island, New Zealand: The impact of local tectonics on burial history Blair Burgreen
1645	#3130	Re-Os Geochemistry for Petroleum Geology Judith L Hannah
1700	#3131	Re-Os geochronology and PGE oil-source fingerprinting of the lacustrine Green River petroleum system Vivien Cumming
1715	#3132	Stable isotope evidence for the source and evolution of Australian natural gases Junhong Chen

THURSDAY 9 AUGUST 1530 - 1730 continued

13.5 - Session 1 - Applied ichnology 1530 - 1730 Plaza Meeting Room 3

Time		
1530	#3133	Palaeoenvironmental significance of the ichnogenus <i>Rosselia</i> Kerrie Bann
1545	#3134	<i>Limits on ichnologic fidelity and temporal resolution of ichnofabrics as documented in a Cretaceous shelf-sea chalk</i> Charles Savrda (Keynote)
1615	#3135	Paleo-earthquake record and the dinosaur fossil burial in Cretaceous, Zhucheng, Shandong Province, East of China Bizhu He
1630	#3136	A field-based test of spatial recurrence of ichnofabrics from shallow-marine successions, Early Permian, South Sydney Basin, Australia James MacEachern

13.9 - Session 2 - River-dominated shelf sediments in Asian seas 1530 - 1730 Boulevard Room

Time		
1530	#3137	<i>Asian dispersal systems of fluvial sediment during the Holocene: lessons for other places and times</i> Charles Nittrouer (Keynote)
1600	#3138	Last glacial cycle and seismic stratigraphy at the northwestern margin of the South China Sea Yan Qiu
1615	#3139	Holocene sediments and environmental change at the north-western shelf of the South China Sea - a case study from the Beibu Gulf Jan Harff (Invited)
1630	#3140	Characteristics of heavy minerals in Pearl River sediments and their implications for provenance analysis Lei Shao

14.4 - Session 2 - Passive to hyper-extended continental rift margins in the geological record: their recognition, diagnostic elements and comparison with modern day analogues: Fossil Hyper-extended Continental Margins 1530 - 1730 Plaza Meeting Room 6

Time		
1530	#3141	<i>Formation of hyperextended rifted margins: Insights from the fossil Alpine Tethys preserved in the Alps in Western Europe</i> Geoffroy Mohn (Keynote)
1600	#3142	The Alpine Tethys rift system in Western Europe: From Variscan inheritance to Alpine inversion Gianreto Manatschal
1615	#3143	The North Lanzo peridotites (NW Italy): a study case of sub-continental mantle exposed at the Adria passive continental margin of the Ligurian Tethys Luisa Guarnieri
1630	#3144	Tectonic and magmatic processes in the sub-continental mantle exhumed at continental rift margin: insights from the Erro-Tobbio peridotite (Voltri Massif, NW Italy) Matteo Padovano
1645	#3145	Geodynamics in the Voltri Massif (Ligurian Alps, Italy) Giovanni B. Piccardo (Invited)

THURSDAY 9 AUGUST 1530 - 1730 continued

1700	#3146	Hyperextension in the pre-Caledonian continental margin of Baltica: implications for understanding the Scandinavian Caledonides Torgeir B Andersen
1715	#3147	Metasediment-hosted mafic and ultramafic rocks in the Ross-Delamerian Orogen as part of an exhumed and polydeformed Neoproterozoic-early Cambrian hyper-extended continental margin sequence George Gibson

15.2 - Session 2 - Large asteroid impacts and crustal evolution: Precambrian extra-terrestrial impacts 1530 - 1730

Plaza Meeting Room 8

Time		
1530	#3148	<i>The Vredefort Structure, South Africa - getting at the roots of a giant impact</i> Roger Gibson (Keynote)
1600	#3149	<i>Searching for giant early impact structures on Earth: the Mesoarchaeon Maniitsoq structure, West Greenland</i> Adam A. Garde (Keynote)
1630	#3150	<i>Large terrestrial impact structures and the Manicouagan Impact Research Program</i> Suporn Boonsue (Keynote)
1700	#3151	<i>The mid-Ediacaran Acraman asteroid impact and ejecta blanket, South Australia: dimensions, palaeolatitude and environmental implications</i> Victor Gostin (Keynote)

15.5 - Session 6 - Orogens and orogenesis: accretionary, cordilleran and collisional processes, products 1530 - 1730

Great Hall 1&2

Time		
1530	#3152	Laser-Ablation Split-Stream (LASS) Petrochronology of the Ultrahigh-Pressure Western Gneiss Region Bradley Hacker
1545	#3153	The strength of large-scale plate boundaries: Constraints from the dynamics of the Philippine Sea plate since ~5 Ma Giampiero Iaffaldano
1600	#3154	Exhumation pattern of the Talesh Mountains, NW Iran, evidence for rapid cooling in the Middle Miocene Saeed Madanipour
1615	#3155	From continental subduction to continental collision: geological, geophysical and thermochronometric constraints from the southern Apennines (Italy) Stefano Mazzoli
1630	#3156	Orogenic histories revealed by high-grade metamorphic rocks Mark Munro
1645	#3157	Oroclinal- and strike-slip-related rotations in the curved orogenic belt of the central/northern Apennines (Italy) Antonio Turtù
1700	#3158	Switch from thrusting to extension in the Zaskar Shear Zone, NW Himalaya: structural and metamorphic evidence Roberto Weinberg

18.4 - Session 1 - Proterozoic magmatism: Implications for Tectonic models 1530 - 1745

Plaza Meeting Room 11

Time		
1530	#3159	East Scandinavian Paleoproterozoic Lafge Igneous Province(ESKLIP):lohg duration and multiphase processes Tamara Bayanova

THURSDAY 9 AUGUST 1530 - 1730 continued

1545	#3160	Petrogenetic studies on Proterozoic middle crust within the Vaasa complex, western Finland Matti Kurhila
1600	#3161	<i>Variation of the Large Igneous Province (LIP) record through time</i> Wouter Bleeker (Keynote)
1630	#3162	U-Pb-Hf-Nd isotopic constraints on magmatism in the eastern Arunta Region, central Australia: implications for source regions and Palaeoproterozoic tectonism Joanne Whelan
1645	#3163	The Paleo- to Mesoproterozoic tectonic and magmatic evolution of the Telsiai and Druksiai-Polotsk deformation zones in the crystalline basement of Lithuania, East European Craton, reconstructed by U-Pb zircon geochronology Irma Vejelyte
1700	#3164	Remnants of the c.1.83 Ga volcanic island arc in Lithuania: implications for the development of the western East European Craton Grazina Skridlaite
1715	#3165	Age and isotopic characteristics of Florianopolis Batholith, Southern Brazil: tectonic implications Miguel Basei
1730	#3166	Protoliths and ~440-Ma ultrahigh-pressure metamorphism of eclogite and gneiss in the North Qaidam orogen, NE Tibet: Implications for deep subduction of the Qaidam basin Qing Xiong

19.1 - Session 2 - Advances in isotope chemistry and geochronology

1530 - 1730

Plaza Meeting Room 2

Time		
1530	#3167	Trials and tribulations of a multi-collector ARGUSVI 40Ar/39Ar mass spectrometer David Phillips
1545	#3168	Revision of the K decay constant Winfried Schwarz
1600	#3169	Dating brittle fault rocks by K-Ar gouge ages: stretching the method limits to the Mesoproterozoic Giulio Viola
1615	#3170	<i>Consistent changes in biomarkers (microbes & flora) & stable isotopes across several major extinction events of our planet</i> Kliti Grice (Keynote)
1630	#3171	Stable isotopes in the service of water resource management in the Namib-Naukluft area of Namibia Torsten Vennemann (Invited)
1645	#3172	Sulfur isotope values of gypsum in Cenozoic strata in Tarim Basin and their indication for the transgression of ancient Mediterranean Sea Chenglin Liu
1700	#3173	Distribution of sulfur reservoirs through the Archean in the North Eastern Goldfields, Yilgarn Craton, Western Australia and their significance for nickel sulfide formation in komatiites Carissa Isaac
1715	#3174	Low- $\delta^{18}\text{O}$ Suzhou A-type granite revisited : Uranium influences In-situ zircon Oxygen-isotope analyses Yuya Gao

THURSDAY 9 AUGUST 1530 - 1730 continued

20.2 - Session 2 - Radar in planetary exploration

1530 - 1730

Mezzanine Room 5

Time		
1530	#3175	The geologic setting of the Mars North Polar Cap from three dimensional analysis of MARSIS planetary radar sounder data Alessandro Frigeri
1545	#3176	Radar sounding of the Eastern Medusae Fossae Formation: ash flow, icy deposit or both? Roberto Orosei
1600	#3177	MARSIS and SHARAD: adding the third dimension in the exploration of Mars Roberto Orosei (Keynote)

21.1 - Session 3 - Bruce Chappell Symposium. Felsic magmas: petrogenesis to metallogenesis: Metallogenesis

1530 - 1730

Plaza Meeting Room 9

Time		
1530	#3178	Source and compositional diversity in determining the igneous metallogeny of the Tasmanides, eastern Australia Phil Blevin (Keynote)
1600	#3179	Pan-African granitoids in Nigeria: petrogenesis and potential for metallogenesis Kathryn Goodenough
1615	#3180	Metallogeny of Indium-bearing tin-polymetallic deposits in Bolivia, Japan, and China Hiroyasu Murakami
1630	#3181	Porphyry Cu-Au, Mo and Cu-Mo metallogenic systems in Tibetan Plateau from subduction, continental collision to transition settings Kezhang Qin
1645	#3182	Geochemistry and geochronology of the Eocene igneous host rocks of the Sharang porphyry molybdenum deposit, Tibet, China Junxing Zhao

22.4 - Session 3 - Quantification of extreme metamorphism and implications for tectonics

1530 - 1730

Plaza Meeting Room 10

Time		
1530	#3183	Multi-stage exhumation processes of the UHP metamorphic rocks: In the view from the extensional structure of Hong'an-Dabieshan orogenic belt, Central China Wei Lin
1545	#3184	The slow exhumation of UHP metamorphic oceanic- type rock in western Tianshan, China Lifei Zhang
1600	#3185	Blueschists from southwestern Tianshan, NW china: Petrogenesis and tectonic implications Zeng Lu

22.6 - Session 1 - Accessory phases and trace elements in metamorphic processes

1530 - 1730

Plaza Meeting Room 7

Time		
1530	#3186	Metamorphic zirconology: insights from microbeam analyses of U-Pb ages, trace elements, and Hf-O isotopes in zircon from eclogite-facies metamorphic rocks Yong-Fei Zheng (Invited)

THURSDAY 9 AUGUST 1530 - 1730 continued

1545	#3187	Distinguishing metamorphic growth from recrystallization of zircon in eclogite-facies metamorphic rocks Qiong-Xia Xia
1600	#3188	<i>Zircon deformation and its affect on chronometry, thermometry and fluid-rock interaction</i> Steven Reddy (Keynote)
1630	#3189	Rutile U-Pb isotope- and trace-element analysis constrains the petrological evolution of near-ultrahigh-pressure crustal xenoliths Ellen Kooijman
1645	#3190	Thermal history of UHT sapphirine granulites from Zr-in-rutile thermometry and U-Pb dating, Gruf Complex, Central Alps Jeffrey Oalman

23.2 - Session 1 - General Palaeontology 1530 - 1730 Qld Museum Theatre

Time		
1530	#3191	Palaeontology in ecology and conservation Julien Louys
1545	#3192	Nannotax: a web taxonomy resource for nannoplankton research, training and reference Jackie Lees
1600	#3193	Research on Four Radially Symmetric Quadrapyrgite Yunhuan Liu
1615	#3194	The Asaphus fauna: from rise to fall Helje Pärnaste
1630	#3195	The developmental model of the punctatus embryos Tiequan Shao
1645	#3196	The Systematic - Biostratigraphic Method Tegan Vanderlaan
1700	#3197	<i>Are taxonomic diversity curves a scientific dead end?</i> John Alroy (Keynote)

24.3 - Session 1 - Understanding microbial carbonates 1530 - 1730 Mezzanine Room 8

Time		
1530	#3198	<i>Decoding the biology of stromatolites</i> Malcolm WALTER (Keynote)
1600	#3199	Geochemical, petrographic and field analyses of microbialites from the Virgin Limestone, Nevada: Insights into Early Triassic biotic recovery from the end-Permian mass extinction Julie Griffin
1615	#3200	Early Cambrian reefs in South China prior to the demise of archaeocyaths Natsuko Adachi
1630	#3201	The earliest appearance of Early Ordovician skeletal-dominant reefs in South China: The sign of emerging global ecosystem changes Yoichi Ezaki
1645	#3202	Do microbial reef frameworks indicate eutrophy? Gregory Webb
1700	#3203	Post-glacial microbialite formation in coral reefs of the Pacific, Atlantic, and Indian Oceans Katrin Heindel
1715	#3204	In situ observation of microbe involved carbonate precipitation under 45C - an insight into microbially induced nucleation Rong Liu

THURSDAY 9 AUGUST 1530 - 1730 continued

25.6 - Session 2 - Marine minerals in Oceania

1530 - 1730

GeoExpo Hospitality Room 1

Time		
1530	#3205	Distribution of minor and trace elements in sulfide chimneys from Brothers submarine volcano, Kermadec arc Heidi Berkenbosch
1545	#3206	Over-pressured fluids and creation of impervious caprocks aid development of large seafloor massive sulphide (SMS) deposits Raymond Binns
1600	#3207	PRESENTATION CANCELLED
1615	#3208	<i>State of the arc: hydrothermal venting and massive sulfide mineralization along intraoceanic arcs</i> Cornel De Ronde (Keynote)
1645	#3209	Exploring the Central Indian Ridge - new results from cruise INDEX2011 Ulrich Schwarz-Schampera
1700	#3210	Mineral resources of the Sea of Japan, Sea of Okhotsk, Bering Sea and the Aleutian-Kuril arc zone Dmitry Kaminsky
1715	#3211	Technology, Geology and Legislation Challenges for Successful Offshore Mineral Exploration Jonathan Lowe

26.4 - Session 1 - Rodinia to Gondwana: evolution of the southern supercontinent

1530 - 1730

Meeting Room S1

Time		
1530	#3212	U-Pb and Hf zircon isotopic systematics of the protoliths of the Eastern Ghats Province - a corollary with the Rayner Province? Alan Collins
1545	#3213	Putting together pieces of a jigsaw puzzle: the nature and fit of the main tectonic domains using age and provenance studies of charnockites and metasediments from across the Southern Granulite Terrane (South India) Diana Plavsá
1600	#3214	Inherited crustal zircons of Gaussberg lamproite magmas as a relics of the westernmost extremity of Mawson craton within East Antarctic Sergey Presnyakov
1615	#3215	Neoproterozoic-Cambrian metamorphic-fluid-time regimes in central Sor Rondane Mountains, East Antarctica Tomokazu Hokada
1630	#3216	Insights into the tectonic evolution of Prydz Bay from a detailed dating study of migmatites from the Brattstrand Bluffs: implications for Gondwana assembly Nigel Kelly
1645	#3217	The Mesoproterozoic Rayner Province in the Amery Ice Shelf area (East Antarctica): a LIP or an orogen deep? Evgenii Mikhalskii
1700	#3218	<i>The pre-Gondwana margin of the Indian craton in the East Antarctica</i> Steven Boger (Keynote)

THURSDAY 9 AUGUST 1530 - 1730 continued

30.5 - Session 3 - Geohazard risk analysis: the state of the art

1530 - 1730

Plaza Terrace Room

Time		
1530	#3219	Insurance loss modelling: lessons from the Canterbury earthquake sequence. Michael Drayton (Invited)
1545	#3220	Mindanao Fault as Revealed by Seismic Reflection Sections and Implications for Earthquake Impact Risk Reduction in Tacurong City, Sultan Kudarat, Mindanao, the Philippines Mabelline Cahulogan
1600	#3221	Sensitivity of earthquake impacts on the selected intensity prediction model Hadi Ghasemi
1615	#3222	An assessment of the sensitivity of tsunami inundation models to elevation data: a case study from Indonesia Leharne Fountain
1630	#3223	Geohazard assessment of sea caves at Port Campbell, Victoria, Australia Peter Dahlhaus (Invited)

31.6 - Session 2 - Interaction of engineering geology and geomechanics: Soil mechanics

1530 - 1730

Plaza Meeting Room 4

Time		
1530	#3224	Density of clay minerals Nadezda Rumyantseva (Invited)
1545	#3225	Cation exchange in montmorillonitic soil for the foundation of civil engineering structures: A low-cost measure to decrease its swelling index Sudipta Sarkar
1600	#3226	Effects of saline coal-seam gas water on consistency limits and compaction characteristics of clay liners I Gde Budi Indrawan
1615	#3227	Settling Characteristics of Clay-Rich Coal Mine Tailings David Williams
1630	#3228	Effect of pore fluid concentration on residual strength of smectite, I/S mixed layer, kaolin and their mixtures Lei He
1645	#3229	Poro-mechanical modelling of CO ₂ geo-sequestration within the Gippsland Basin (SE Australia) Ali Karrech
1700	#3230	Seismic facies to classify a seabed quarry for beach nourishment on the Adriatic coast Luciana Orlando
1715	#3231	Siting method of the ancients in the excavation of Longyou Caverns 2000 years ago Lihui Li

32.2 - Session 2 - Energy and Resource Environment: Future global mapping systems

1530 - 1730

Plaza Meeting Room 1

Time		
1530	#3232	<i>EnMAP - Development Status and Future Plans</i> Hermann Kaufmann (Keynote)
1600	#3233	Practical application of remote sensing for geothermal exploration and development Brigitte Martini
1615	#3234	Geothermal resource assessment by thermal infrared satellite imagery and 3D temperature model using well-logging data Bingwei Tian

THURSDAY 9 AUGUST 1530 - 1730 continued

1630	#3235	Remote sensing methods for investigating outgoing infrared radiation of recent large regional faults and its terrestrial heat flows and geochemical haloes Nikolay Vilor
1645	#3236	Discussion: Towards Global Geoscience Mapping and Monitoring
36.3 - Session 2 - Greater Altai – a unique rare-metal-gold-polymetallic province in Central Asia [National Committee of Kazakhstan Geologists] 1530 -1730 Mezzanine Room 1		
Time		
1530	#3237	"Rudny Altai" type ore deposits and their position in MS group Georgy Ruchkin
1545	#3238	Structural-Petrophysical Types of Base Metal Massive Sulfide Fields in Rudny Altai Victor Starostin
1600	#3239	State-of-the-art capabilities in mining the polymetallic deposits using complex of geophysical methods Akhmetzhan Urdabayev
1615	#3240	The Northern Altai Gold Belt Sergey Vartanyan
1630	#3241	Hafnon from the Koktokay #1 pegmatite dyke, Altai, Xinjiang, China Ru Cheng Wang
1645	#3242	New geochronology and mineralogy of micas from the Koktokay No.3 Pegmatite, Altai, Xinjiang, NW China Qifeng Zhou
36.4 - Session 2 - Geoscience challenges in the 21st century: an early-career perspective [YES Network] 1530 - 1730 Mezzanine Room 4		
Time		
1530	#3243	Alunite deposition at the Springsure weathering profile, Bowen Basin region, Queensland, Australia Izabela Camisassa
1545	#3244	Sm-Nd and LA-MC-ICP-MS U-Pb, Lu-Hf zircon geochronology of high-pressure rocks from the Forquilha Eclogitic Zone, Borborema Province, NE-Brazil: an evidence for the break-up of the Columbia supercontinent Wagner Amaral
1600	#3245	Can we save money and the planet? Carl Watson
1615	#3246	Building a sustainable future through Education Rachael Osborn
1630	#3247	Professional development for geologists to assume leadership in the stewardship of the Earth: resources from the On the Cutting Edge and InteGrate programs David Mogk
1645	#3248	New technologies and international training in geoscience as the key for future professional opportunity Ciro Manzo
1700	#3249	The YES Africa 2011 Symposium: A Key to Developing the Future Geoscience Workforce in Africa Elyvin Nkhonjera

THURSDAY 9 AUGUST 1530 - 1730 continued

36.5 - Session 2 - Inclusions in minerals [International Mineralogical Association Working Group on Inclusions in Minerals]

1530 - 1730

Arbour Meeting Room 1

Time		
1530	#3250	<i>Magmatic immiscibility uncovered by melt and fluid inclusion research</i> Vadim Kamenetsky (Keynote)
1600	#3251	Origin of the Bushveld and Norilsk basic melts recorded in Cr-spinels and spinel-hosted multiphase inclusions Liudmila Zhitova
1615	#3252	Fluid inclusion study of the Shapinggou Mo deposit, Anhui Province, China: implications for the nature of the porphyry systems Pei Ni
1630	#3253	Features and formation of organic fluid inclusion in Dabashan foreland belt, West centre China. Rongxi Li
1645	#3254	Cryogenic Raman spectroscopic studies of fluids in optical fused silica capillary in system CaCl ₂ -H ₂ O Junying Ding
1700	#3255	5 deep flow and thrust zones and their control over the earthquake in Sanjiang region, SW China and SE Asia Jiagui Zhang
1715	#3256	Surface processes and deep structure of the western Kunlun Mountains, northwestern Tibet plateau: the geodynamic implications Yue Zhao

37.2 - Session 1 - Pursuit of a new global geodynamic paradigm

1530 - 1730

Mezzanine Room 6

Time		
1530	#3257	Introduction - fundamental problems and future aims
1545	#3258	<i>Ancient and continental rocks from the world oceans</i> Takao Yano (Keynote)
1615	#3259	Submergence of the ocean floor presumed from DSDP data Masaaki Hanada
1630	#3260	The Shetland-Greenland land bridge contradicting Atlantic seafloor spreading Biju Longhinis
1645	#3261	A new scenario of Iranian platform geodynamics based on the global wrench tectonic theory Soheila Bouzari
1700	#3262	Block tectonics and seismicity in the Niigata Plain, central Japan -formation of "isolated hills" and active faults by mountain uplifting- Yoshihiro Kubota
1715	#3263	Caribbean Evolution in a Global Perspective Karsten Storetvedt

Poster Session - Thursday - Mezzanine Level

Symposium #	Poster Board	Presenter	Title
1.1	#001	Maria Da Glória Motta Garcia	Geological heritage on the North Coast of São Paulo, Brazil: a West Gondwana approach
	#002	Luciana Orlando	Low impact investigation techniques for Cultural Heritage conservation: case study of Moai statues – Rapa Nui Easter Island (Chile)
	#003	Oleg Petrov	Geological monuments of Russia as a part of the world's geological heritage
	#004	Vic Semeniuk	Geodiversity expressed as complex stratigraphy, diagenesis, hydrology and hydrochemistry underlying the Bassendean Sand, Swan Coastal Plain, Western Australia resulting in complex vegetation biodiversity
	#005	Angélica Varajão	Soil trail analysis and geotourism: a case study in the Farofa trail, Serra do Cipó National Park, Brazil
	#006	Gisele Vasconcelos	Aspiring Geopark: “Costões and Lagunas of the Rio de Janeiro”: the coast of Rio de Janeiro formed by special lagoons and cliffs.
	#007	Susan White	Assessing worth in geomorphology: EScOM, a comparative tool for National Heritage List nominations.
	#008	Weiping Wu	Geological Heritage of Tianzhushan Geopark
1.5	#009	Peter Downes	The Kimberley Diamond Company Ellendale diamond collection at the Western Australian Museum
	#010	Ian Graham	Gemstones of Greece: Mineralogy and origins
	#011	Ian Graham	Gem corundum deposits of Greece: a spectrum of compositions and origins
	#012	Ying Song	Differentiation of naturally-coloured and artificially irradiated blue topaz specimens by their cathodoluminescence properties
	#013	Khin Zaw	Distinctive geochemistry among placer ruby suites, Mogok gem field, Myanmar
2.3	#014	Gerel Ochir	Mongolian women in Geoscience
2.6	#015	K.T.U.S. De Silva	Thorium and Uranium Mineralization in SRI LANKA
	#016	Azim Ibrohim	Geological survey of Tajikistan in progress for sustainable development of the country
	#017	Wei Shen	Recent study on the construction of the geological research team
	#018	Deepani P.R. Weerakoon	Development of mineral industry and regulatory functions of Geological Survey and Mines Bureau in SRI LANKA
	#019	Nicolas Goudemand	High-resolution, conodont-based temperature record for the Early Triassic
	#020	Yongjian Huang	Reactive iron burial records in the Bonarelli Level of Central Italy: Implications to the nutrient cycling during Cretaceous Oceanic Anoxic Event 2
	#021	Xiuming Liu	Paleosol characteristics of Zhangye Cretaceous colourful Danxia and its sedimentation environment analysis
	#022	Relu Dumitru Roban	Early Cretaceous marine environmental changes: records from the Romanian Carpathians
	#023	Kohki Yoshida	Abrupt cooling record in the Early Triassic sediments in Tethyan Himalaya
	#024	Kohei Yoshino	Provincialism of Campanian (Late Cretaceous) radiolarians in the North Pacific

Poster Session - Thursday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
	#025	Yuri Zakharov	Palaeotemperature record of extreme warmth during the late Santonian-middle Campanian: first molluscan oxygen-isotope evidence from Vancouver and Hornby islands, British Columbia
3.7	#026	Andrei Dronov	Late Ordovician cooling event: evidence from the Siberian Platform
	#027	Jiri Fryda	A latest Silurian Supergreenhouse: The trigger for the Pridoli Transgrediens Extinction Event
	#028	Alain Pr��at	The Neoproterozoic record in Gabon and Democratic Republic of Congo : A stable isotope study
	#029	Alain Pr��at	Microfacies vs REE+Y distributions in the Neoproterozoic Mbuji-Mayi carbonates of Democratic Republic of Congo – Palaeoenvironmental tools in sedimentology
3.8	#030	Xueping Ma	Famennian stratigraphic and faunal sequence of western Junggar, northwestern China
	#031	Marek Narkiewicz	Palaeoenvironmental context of the earliest tetrapod trackways from the Eifelian of the Holy Cross Mts. (Poland)
	#032	Katarzyna Narkiewicz	Middle Devonian Ka��ak Event in a shallow-marine epicontinental basin of Belarus (East European Craton)
	#033	Thomas Suttner	Upper dark interval of the shallow-water Koneprusy area (Prague Basin, Czech Republic): a correlation with the global Kacak Event (Middle Devonian, Eifelian)
	#034	Jos�� Ignacio Valenzuela-R��os	Evolutionary patterns of Ancyrodelloides in the Spanish Central Pyrenees (middle Lochkovian, Lower Devonian) and its global chronostratigraphical potential
4.4	#035	Yun Fang	Study on mechanism of condensation water disease and test in site
	#036	Marianna Kulkova	Radiocarbon in the ecosystem of Baltic Sea basin (Russian Federation)
	#037	Gabriel Habiyaemye	Analysis of Anthropogenic and Regional Climate Change Impacts on Malaria Distribution and Human Health in Eastern Rwanda
	#038	Hassina Mouri	The Pilanesberg Alkaline Complex and the Rustenburg Layered Suite: possible sources of contamination of groundwater and health impact on North West Province communities, South Africa.
	#039	Hassina Mouri	Geochemical variables as plausible aetiological cofactors in the incidence of some common diseases in Africa
	#040	Georgii Rudko	Medical Geology as a new scientific branch
	#041	Ravsahab Sangpal	Drinking water quality assessment of the Yeshwantsagar reservoir (Ujjani dam) from Solapur district of Maharashtra (INDIA)
	#042	Iosif Volfson	The models of epigenetic ore genesis as a prognostic element of environmental mapping
	#043	Yongzhang Zhou	Eco-geochemical Environment and their Relationship with Human Healthy in High Incidence Area of Nasopharyngeal Carcinoma in Pearl River Delta Region, Guangdong (China)
4.5	#044	Ivan Alferov	Dangers in Orsk industrial center
	#045	Faqin Dong	Study on the basic characteristics of several atmospheric dusts in North China

Poster Session - Thursday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
	#046	Katsuhiro Fujisaki	Quantitative and qualitative management of groundwater basin in Japan
	#047	Kunio Furuno	Geological Disaster by Liquefaction-Fluidization Phenomena on Man-made Strata caused by iron sand mining in Kuju-yukuri Plain Area, Boso peninsula, Japan at The 2011 Off the Pacific coast of Tohoku Earthquake
	#048	Jaana Jarva	Chemical characterization of metal contaminated soil
	#049	Gi Young Jeong	Mineralogy and microstructures of single particles of Asian dust
	#050	Atsushi Kagawa	Distribution of geological disaster by Liquefaction-Fluidization phenomena on Boso peninsula in the 2011 off the Pacific coast of Tohoku Earthquake : Tokyo bay reclaimed land in Urayasu area
	#051	Takayuki Kawabe	Distribution and facies of sunamite by the Off the Pacific coast of Tohoku Earthquake in 2011 in Sendai Plain, Northeast Japan
	#052	Osamu Kazaoka	Liquefaction-Fluidization phenomena on the Quaternary Kanto Basin at the 2011 Earthquake off the Pacific Coast of Tohoku: Outline in the basin and details in northeastern Tokyo bay reclaimed land
	#053	Ikram Kerimov	Some main results of the studies of medium's induced excitation by non-controlled human activities.
	#054	Takashi Kusuda	Land subsidence on Waste Fill Site by Remediation of Ground Air Extraction and Groundwater Pumping to Decrease the Polluted Flux of Seepage to Yoro-gawa River, Chiba, Japan
	#055	Aivo Lepland	Propeller-induced re-suspension of contaminated sediments in the Oslo harbor, Norway
	#056	Melissa Lobegeier	Using microscopic invertebrates as indicators of environmental change in lakes in Tennessee and Virginia, U.S.A.
	#057	Evgeny Nesterov	The reconstruction of environment during Holocene in the coastal zone of Gulf of Finland (Russia)
	#058	Norman Schreiber	Lake deposits as recorder of environmental pollution in a large city
	#059	Xueming Shi	Experiment and numerical modelling of monitoring the soil remediation of waste landfill site in Wuhan city, China
	#060	Nanping Wang	The distribution and level of ¹³⁷ Cs radioactivity concentration in surface soil and its environmental significance in Zhongshan City, Guangdong Province in China
	#061	Kawabe Yoshishige	Risk evaluation for heavy metals containing in tsunami sediment by the Great East Japan Earthquake
	#062	Lifeng Zhong	Pt and Pd in sediments from the Pearl River Estuary, South China: background, distribution and source
5.4.01	#063	Kirill Florenskiy	Online GeoMaps of the Russian Federation – Technological Aspects
	#064	Pavel Golodoniuc	The Spatial Information Services Stack (SISS)
	#065	Gerald Hartig	GMapper: a mobile-device Geological fieldwork assistant and lecturer
	#066	Peter Hultgren	RoCS: A time efficient and precise underground mapping system
5.4.04	#067	Anthony Shellshear	New high performance database technologies and their application in geological and resources projects

Poster Session - Thursday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
5.4.05	#068	Angela Riganti	Managing the geological data behind the maps – digital fieldnotes in WAROX
	#069	Jin Wang	Optical wireless communication system for well logging data transmission
5.4.06	#070	James Goodwin	High-resolution, regional-scale 3D inversion modelling using the National Computational Infrastructure
5.5.01	#071	John Cannon	A Custom Implementation for visualizing Sub-surface 3D Scalar Fields in GPlates
	#072	Gabriel Courrioux	Tetrahedral meshing of implicit volumes Using CGAL* Library
	#073	Philip Heath	Variably spaced regional terrain-corrected gravity gridding data in South Australia
	#074	Sangho Lee	Development of augmented reality system for the borehole data using smart phone
5.5.02	#075	Steve Quenette	Crossing the gap between data inference and optimisation for geodynamics inversions
	#076	Gabriel Courrioux	3D modelling of Paleozoic massif of Ardennes in the area of Givet (France)
	#077	Kristian Lindqvist	A 3D visualization of earthquake incidence correlated to geological main structures within parts of the Tien Shan and Pamir mountains, Central Asia
	#078	Urszula Stepień	3D detailed geological model of urban area of the city of Warsaw (Poland) as a source of environmental information
	#079	Chonglong Wu	Approach and method for the construction of China “Glassy Land”
6.3	#080	Daniel Breitner	Mechanisms of uranium uptake onto Boda Siltstone Formation – a case study on potential host rock of high level nuclear waste repository
	#081	Jana Kasikova	Granite matrix permeability: an overall project review
	#082	Susanna Lindgren	Hydrogeological effects of constructing ONKALO research tunnel at Olkiluoto in South-West Finland
6.4	#083	Michaela Bock	Synergies from Research on Geo-Energy
	#084	Shiou-Jen Jian	Efficient Photochemical Water Splitting of WO ₃ Nanowire arrays coated Au Grown Directly on tungsten Plate by Hydrothermal Method
7.4	#085	Helen Gibson	3D geology modelling of auriferous reefs in the Bendigo Goldfields, Victoria: Interpolating 3D surfaces, thin veins, dykes and faults
	#086	Antonio Silva Junior	Building mining-related training images with an object-based simulation algorithm
	#087	Karl Smith	A methodology to reduce time required for resource model updates
	#088	Stefan Vollgger	Implicit 3D geological modelling applied to structurally complex mineral deposits - it's all about geometry
7.7	#089	Hassina Mouri	Assessment of the mineralogical variability of the A1, UE1A, and A5-reefs at Cooke Section, Rand Uranium, using MLA-based automated mineralogy
8.1	#090	Saulo Alves Carreiro De Araujo	High resolution airborne geophysics applied to gold exploration in the Tapajós Mineral Province, Brazil: the case study of the 12 de Outubro, Rosa de Maio and Maués prospects

Poster Session - Thursday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
8.2	#091	Elena Afanasyeva	Plutonogenic Metamorphism Manifestations in the Southeastern Baltic Shield
	#092	Vasily Aristov	Circular tectonic structures as keys for PGE-Ni-Cu discoveries
	#093	Mark Biggs	Exploring for coal in lesser-known Queensland basins
	#094	Adrian Noetzli	Exploration for manganese in the Pilbara region of Western Australia – a case study
	#095	Christopher Sennitt	Aerial Reconnaissance Prospecting Surveys in Mineral Exploration
	#096	Saulo Alves Carreiro De Araujo	Application of high-resolution airborne magnetic gradiometers and gamma-ray spectrometric surveys for gold exploration: implications for greenstone belts terrains in the Amazon region
	#097	Shouting Zhang	The Combination Method and Exploration Model for Location Forecasting of Fluorite Ore-bodies in Covered Areas
8.4	#098	Graham Carr	High sensitivity tracing of contamination around mine sites using Pb isotopes
	#099	David Gray	Hydrogeochemical exploration for secondary carnotite uranium deposits in Western Australia
	#100		POSTER CANCELLED
	#101	Timothy (Tim) Ireland	Pinning the tail on the porphyry donkey with detrital magnetite; reviving an old geochemical sampling medium
	#102	Melvyn Lintern	An integrated regolith, groundwater and gas study of metal migration through cover at the North Miitel Ni sulphide deposit, Western Australia
	#103	Dayna Mcgeeney	Gold Distribution within the Kiriwina Formation, Woodlark Island, Papua New Guinea
	#104	Mark Pownceby	Relative timing of uranium mineralisation in sandstones using hyperspectral CL and x-ray analysis
	#105	Nathan Reid	Biominalisation in <i>Acacia bivenosa</i> : Mechanisms for herbivore defence/ salt tolerance
	#106	Rong Ye	Occurrences and formation of copper nanoparticles over the concealed ore deposits
9.4	#107	Wei Terry Chen	Paragenesis, stable isotopes and molybdenite Re-Os isotopic age of the Lala iron-copper deposit, Southwest China
	#108	David Holwell	Three-dimensional textural analysis of IOCG ores and breccias using High Resolution X-ray Tomography: insights into ore genesis and metallurgy
	#109	Mal Jones	Re-Os ages clarify mineral system evolution in an IOCG province, Cloncurry, Australia.
	#110	Carolina Penteado Natividade Moreto	SHRIMP II and LA-ICPMS U-Pb zircon geochronology of the host rocks of the Sossego, Bacaba and Castanha IOCG deposits, Carajás Mineral Province, Brazil
	#111	Michael Porter	Tectono-magmatic and hydrothermal setting of iron oxide associated-alkali altered mineralised systems and IOCG sensu stricto deposits
	#112	Bielin Shi	Geological Understanding and Interpretation for Mineral Resource Estimate of Iron Oxide-Copper-Gold (IOCG) Deposits in Northern Brazil
	#113	Jafar Taheri	Savage River Mine, a magnetite-rich ore body with IOCG affinities, NW Tasmania, Australia

Poster Session - Thursday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
9.5	#114	Vasily Aristov	Metallogeny of gold and silver in Verhojano-Kolyma collision zone (Northeast Russia)
	#115	Valerii Fridovskii	Orogenic gold deposits of north-east Russia
	#116	Tine Larsen	Geochemical evidence for genesis of the Au occurrences along the Svecokarelian Rombaken-Skjomen shear zone, northern Norway
	#117	Christopher Lawley	Structural setting of orogenic gold deposits in the Paleoproterozoic Lupa goldfield, SW Tanzania
	#118	Lena Polufuntikova	Microtectonics terrigenous rocks includes orogenic gold deposits
	#119	Iris Sonntag	Orogenic Gold with a Fluorine-rich Footprint
	#120	Nikolay Vilor	Physicochemical conditions of forming of arsenopyrite-pyrite ores of gold deposits (physicochemical computing modeling)
9.6	#121	Carissa Isaac	Multiple sulphur isotopes record degassing in komatiite hosted nickel systems during emplacement
9.7	#122	Anita Berzina	Isotope/trace element geochemistry and geochronology of the Zhireken porphyry Mo-Cu deposit (Russia)
	#123	Yi Cao	Geology, mineralogy and geochemistry of the skarn in Taochong area, Middle-C/Lower Yangtze Valley, Eastern China: implication for skarn genesis
	#124	Xue Chuandong	An Himalayan intracontinental orogenic deposit: study of the Hetaoping distal skarnoid-type Zn-Pb-Cu-Ag(-Au) ore district, Baoshan, western Yunnan province, China
	#125	Qian Dong	The large-scale Wushan deposit, Jiujiang-Ruichang district, eastern China: Late Carboniferous massive sulfides overprinted by Late Jurassic skarn Cu mineralization
	#126	Yangsong Du	Mesozoic in-situ and external skarn magmatic-hydrothermal mineralization in the Anhui segment of the Lower Yangtze metallogenic belt
	#127	Chao Duan	Study on Late Mesozoic ore-forming events in Ningwu Ore District, China: New Evidences from Zircon U-Pb Geochronology and Hf Isotopic Compositions of the Granitic stocks
	#128	Vladislav Dultsev	Forms of Gold Occurrence in the Ore from the Serebryanoe Deposit (Eastern Transbaikalia)
	#129	Mamoru Enjoji	Estimation of copper contents in basalt magma from Hachijyo-jima Is., Tokyo
	#130	Mamoru Enjoji	Significance of fibrous solid phases in quartz crystals
	#131	Wenyan He	The Beiya gold-polymetallic deposits, western Yunnan Province, Southwest China
	#132	Renmin Hua	Relationship between Caledonian granitoids and large-scale rare metal mineralization in South China
	#133	Fei Huang	The growth of nano-micron pyrite whisker and its typomorphic significance
	#134	Victor Kilipko	Minerageny of Urals based on geodynamic reconstructions
	#135	Irina Kozyreva	FEATURES OF ACCESSORY MINERALIZATION AS DIAGNOSTIC INDICATOR OF CONVERGENT ROCKS
	#136	Cheng-Biao Leng	Geochronology and Sr-Nd-Hf isotopic compositions of the Xuejiping porphyry copper deposit, Northwest Yunnan, China

Poster Session - Thursday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
	#137	Zhuang Zhi Qian	Hf-Sr-Nd isotope systematics and whole rock geochemistry of the Huangshandong sulfide-bearing mafic-ultramafic intrusion in the Central Asian Orogenic Belt, NW China: implications for the source, geodynamic setting and petrogenesis
	#138	Thomas Seifert	Antimony deposits and the world-wide Sb mine production
	#139	Reimar Seltnann	Exploration model of the Suzdal sediment-hosted gold deposit, Kazakhstan
	#140	Christopher Sennitt	Gold Deposits of South Korea
	#141	Ping Shen	Contamination and origin of the ore-bearing stocks from the Baogutu porphyry copper deposit, in Xinjiang, China
	#142	Juli Wang	Metallogenic characteristics of gold deposits in Tianger gold ore belt, Xinjiang, China
	#143	Yuling Xie	Re-Os isotope dating of molybdenite and significance of Anji Pb-Zn polymetallic deposit in Zhejiang province of China
	#144	Xiaochun Xu	Fluid Inclusions and Carbon, Hydrogen, Oxygen Isotopes of Shizishan Cu-Au Deposit, Tongling, China
	#145	Feng Yuan	The Ni-Cu-PGE mineralization potential of the Tarim Large Igneous Province, China
	#146	Dehui Zhang	A classification schema of mineralization depth of hydrothermal deposits
	#147	Yongzhang Zhou	Geological Evolution and its Implications for Mineral Prospecting of Giant Qinzhou Bay "C Hangzhou Bay Ore Deposit belt Belt (Southern Section), South China
10.1	#148	Tim Brain	Queensland Coal - generating prosperity
	#149	Tennille Mares	Investigating coal microstructure using small angle scattering techniques
	#150	Alexandr Salnikov	Transmitted-wave determination of coal-seam structures in mines
	#151	Vladimir Vyalov	Coal resources of Russia and their economic-geological evaluation
	#152	Ao Weihua	Distribution characteristics of coking coals in Northern China
	#153	Caixiang Zhang	The status of coal industry and coal mining safety in China
	#154	Lei Zhao	Mineralogy and Geochemistry of contrasting sulphur-rich coals from the Songzao Coalfield, SW China and the Great Coal Measures, Hunter Valley, Australia
10.2	#155	Daiyong Cao	Coalfield Structure Framework and Tectonic Evolution in China
	#156	Annette E. Goetz	Facies, sedimentary organic matter content and coal petrography of the No. 2 coal seam, northern Witbank Basin (South Africa)
	#157	Magdalena Huyskens	Placement of the Guadalupian – Lopingian (Capitanian – Wuchiapingian) Boundary in the Permian of eastern Australia.
	#158	Yiwen Ju	Relationship between nano-scale deformation of coal structure and metamorphic-deformed environments
	#159	Bob Nicoll	Wordian (Middle Permian) U-Pb CA-IDTIMS isotopic ages from the Lightjack Formation, Canning Basin, Western Australia
	#160	Keith Sircombe	Best of both worlds: combining SHRIMP and CA-TIMS methods in refining geochronological determinations for timescale calibration

Poster Session - Thursday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
	#161		POSTER CANCELLED
	#162	Shuheng Tang	Sequence stratigraphic framework of Permo-Carboniferous System and its control to coalification in Chengde Area, Hebei Province, China
11.2	#163	Wenxuan Hu	Source Rock Features and Potential of the Lower Cretaceous black mudstones in Coastal Southeast China
	#164	Jiyan Li	Continental facies subaquatic volcanic eruption and the influence on high quality source rocks
	#165	Renhai Pu	Miocene mound reflections in northern offshore of China South Sea
	#166	Yuan Xie	Marine Hydrocarbon Geological Conditions and Prospects within the Mountain-Basin Transitional Zone of Western Side of Xuefeng Mountains, in Middle and Upper Yangtze region of Southern China
11.3	#167	Izuchukwu Mike Akaegbobi	Spectral fluorescence analysis of kerogen and extracts from Miocene Agbada shale interbeds in the Niger delta
	#168	Gang Chen	Geochronologic link between the tectono-thermal process and the Permian oil-gas accumulation in the northeastern Ordos basin, China
	#169	Marina Dakhnova	Identification of petroleum systems in the pre-Mesozoic megabasin of Siberian platform (on the basis of source rock, oil and gas geochemistry)
	#170	Wang Furong	Study on diagenetic environments of calcite veins hosted in marine carbonate rock in middle Yangtze region of southern China
	#171	George Grabowski	Stratigraphy and Geochemistry of the Organic-Rich Toolebuc Formation, Upper Albian, Eromanga and Carpenteria Basins, Australia
	#172	Guoli Hao	The hydrocarbon accumulation in Mesozoic volcanic reservoir, Niuxintuo Sag Bohaiwan Basin
	#173	Gennady Ivanov	Evaluations of Oil and Gas Potential of Southern of Kara Sea on the Base Innovative of Geochemical Survey Technology
	#174	Natalya Kim	Biomarkers in Jurassic mudstones of the Yenisei-Khatanga Trough
	#175	Pawel Kosakowski	Paleogeographic configuration of the Zechstein Main Dolomite basin versus hydrocarbon prospects, exemplified by the Fore-Sudetic Monocline (South Permian Basin, SW Poland)
	#176	Zhuo Li	Multiple Petroleum Charge and Mixing in the Tazhong Area, Tarim Basin, NW China: Implication for Petroleum Exploration in Basins with Complex Histories
	#177	Xia Luo	Secondary Generation and Expulsion Hydrocarbon for Coal in Carboniferous in Jiyang Depression, Bohai Bay Basin, China
	#178	Yanping Ma	Bleaching of sandstone: An indicator for fluid-rock interaction during hydrocarbon seepage
	#179	Jude Ogala	Pyrolysis-gas chromatography of kerogens from source rocks and coals in the Maastrichtian Mamu Formation of the Anambra Basin, southeastern Nigeria
	#180	Sverre Ohm	Occasional extreme temperature generation during drilling: Proofs from geochemical analyses

Poster Session - Thursday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
	#181	Ashish Sarkar	Hydrocarbon potential of the source rocks in parts of Upper Assam as deciphered from rock-eval analysis
	#182	Grazyna Semyrka	Geochemical characteristics of the Zechstein Main Dolomite in the Grotów Peninsula area (SW Poland) from the point of view of source rock occurrence
	#183	Byeong-Kook Son	Hydrocarbon generation and migration in southwestern Ulleung Basin, offshore southeastern Korea: 1D and 2D petroleum system modeling.
	#184	Shaochun Yang	Geochemical characteristics of crude oil and oil source analysis of tight sandstone reservoir in Pengyang area, Ordos Basin, China
	#185	Talgat Yensepbayev	Palaeothermicity and depth of oil window of the Eastern part of the Precaspian basin and Preuralian basin (Kazakhstan)
11.6	#186	Laurent Beccaletto	The Pre-Mesozoic basement of the SW Paris Basin (France) revisited using combined seismic, aeromagnetic and gravimetric methods - Focus on the Stephano-permian basins.
	#187	Marco Brönnner	Improved sub-salt and sub-basalt imaging from geological modeling and joint inversion
	#188	Anatoly Dmitrievskiy	New seismic tomographic methods in studying natural oil and gas reservoirs
	#189	Natalia Fortunatova	A Technology for Modeling Seismic and Capacity Properties of Sedimentary Complexes
	#190	Ron Hackney	A case for flawed models in 3D gravity modelling and inversion of sedimentary basins
	#191	Stephen Johnston	Velocity analysis and depth conversion in the northern Perth Basin, Australia
	#192	Cedric Jorand	First-pass inferred basement heat flow map from potential field data
	#193	Qun Luo	Reconstructing Reservoir Forming Processes Based on Results from Seismic Inversion and Seismic Attribute Analysis
	#194	Xiaoli Zhang	Origin peculiarities and identification methods of the relative high gamma-ray sandstones
12.4	#195	Chen Chen	Research of mechanical parameters and mining plan of oil shale of Nong'an
	#196	Anatoly Dmitrievskiy	Matrix oil as a new source of non-conventional hydrocarbon resources
	#197	Yuzhao Hu	A Study on Petroleum System of Oil Sand Deposits in Northern Kashi Sag of Tarim Basin, Northwestern China
	#198	Jianwei Zhu	System resources database and evaluation of oil shale based on MapGis
13.5	#199	Kerrie Bann	The role of integrating ichnology and sedimentology to identify discontinuities in mud-prone successions, Permian Pebble Beach Formation, south Sydney Basin, Australia
	#200	Kerrie Bann	The ichnology of slope deposits
	#201	Shahin Dashtgard	Using Neoichnological Variation Across the Lower Delta Plain (Fraser River Delta, Canada) as a Proxy for Assessing Physico-Chemical Stress
	#202	James Maceachern	Designing a Diversity Index (DI) for the ichnological analysis of marine successions

Poster Session - Thursday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
	#203	Monica Rolls	Sedimentology, ichnology, and soft-bodied preservation of the Series 3 Cambrian March Point formation and Cape Ann member, western Newfoundland
	#204	Elena Vilnova	Ichnocoenoses of Vendian-Ordovician Sediments of Northern Transbaikalia
13.7	#205	Anatoly Dmitrievskiy	System-oriented paleogeological analysis of sedimentary basin evolution
13.8	#206	Mayuko Nishio	Late Cretaceous tectonics in the northern Japan deduced by detrital heavy mineral provenance and the existence of chromian spinel with melt inclusion
13.9	#207	Yan Qiu	Shelf construction of the northern South China Sea affected by the Pearl Mouth River during Miocene
	#208	Michal Tomczak	Response of the microfossils record to paleoenvironmental change at the northern continental margin of the South China Sea during the Last Glacial Cycle
	#209	Zhen Xia	Anthropogenic fingerprint in Beibu Gulf (South China Sea) sediments
14.4	#210	Julia Autin	Unravelling the breakup processes along the Australo-Antarctic rift-system
	#211	Francois Bache	Post-rift uplift of the Dhofar Margin (Gulf of Aden)
	#212	Nick Direen	Antarctica – Before and after Gondwana: tectonostratigraphic terrane map and reconstructions
15.2	#213	Adam A. Garde	Crushing and direct mineral melting superimposed on orogenic deformation and migmatization in the Mesoarchaean Maniitsoq structure, West Greenland
	#214	Jacques Locat	A morphological analysis for estimating the age of a possible impact structure: the Corossol structure on the seafloor of the northwestern Gulf of St. Lawrence (Eastern Canada)
	#215	Hamzah Mohamad	The occurrence of impactite in Bukit Bunuh, Lenggong, Perak, Malaysia: Strong indicative of 1.83Ma meteorite impact
	#216	Leonid Sushkin	New large Late Mesozoic astrobleme of Western Pacific
	#217	Mircea Ticleanu	The trovants (Sandsteinkonkrete) from the Carpathian area and summary data on these pseudo-concretions reported on the Earth
	#218	Nicholas Timms	Deformation of the Lithosphere by Impact Events: What we can learn from zircon microstructure
	#219	Eric Tohver	Stratigraphic and isotopic effects of a Permo-Triassic impact crater; implications for the global carbon record
15.3	#220	Jonathan Aitchison	Arc-continent collision as a key mechanism for continental growth: Examples from the Phanerozoic of eastern Australia
	#221	Jonathan Aitchison	India-Asia collision and evolution of the Yarlung Tsangpo suture zone, Tibet
	#222	Francois Bache	Seismic stratigraphy and tectonic history of the Southwest Pacific
	#223	Xin Dong	Mesozoic to Cenozoic high-grade metamorphisms from the south Lhasa terrane and their constraints on the Himalayan orogeny
	#224	Simon Holford	Three-dimensional seismic analysis of late Cenozoic volcanism and fluid flow in the Bass Basin, southeastern Australia
	#225	Nick Mortimer	Paleocene MORB and OIB from the Tasman Sea

Poster Session - Thursday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
	#226	Wouter P. Schellart	Mantle constraints on the plate tectonic evolution of the Tonga-Kermadec-Hikurangi subduction zone and the South Fiji Basin region
	#227	Hannah Scott	Cataclastic processes within the Alpine Fault Zone
	#228	Amit Segev	New Bouguer gravity, crustal thickness and RTP magnetic maps of SW Pacific crustal terrains and stretched Zealandia ribbons
	#229	Maria Seton	Subduction history of the Melanesian borderlands region, eastern Coral Sea
	#230	Anshu Kumar Sinha	The Himalayan orogenesis and Plate Tectonics
	#231	John Suppe	Fragmentation of a once larger northeastern Indo-Australian ocean: evidence from subducted slabs under Southeast Asia
	#232	Jian Wang	A New Model of Qiangtang Basin and Its Petroleum Geological Significance
16.2	#233	Huihong Cheng	Dislocations propagation-evolution in olivine under ultra high temperature-pressure
	#234	Andrea Giuliani	Halogen recycling through subduction zones revealed by extreme iodine enrichment in olivine from mantle xenoliths of the Bultfontein Kimberlite (Kimberley, South Africa)
	#235	Daniel Howell	Trace element partitioning in mixed-habit diamonds
	#236	Shumin Hu	Measurements of FT-IR spectra of NaCl-H ₂ O at 20-850°C and 3GPa
	#237	Qiuxia Lu	The mantle fluid action and evolution on the diagenesis and metallogenesis for Cenozoic in western Yunnan, China
	#238	Ekaterina Rubanova	Geochemistry of Diamondiferous Eclogites from Udachnaya Pipe
18.2	#239	Kathryn Amos	Where was it? The quest for the enigmatic Australian Centralian Superbasin is on!
	#240	Dhiraj Mohan Banerjee	New Mineralogical Data from the Proterozoic-Cambrian Boundary Phosphorite
	#241	Eugene Domack	Documentation of Subglacial Facies across the inner Otavi Platform, Namibia representing the Marinoan Cryogenian Event
	#242	Kathleen Grey	Cerebrosphaera buickii - a significant marker for Neoproterozoic subdivision
	#243	Zhidong Gu	Development characteristics of Neoproterozoic continental rifts in the middle of Sichuan basin of China
	#244	Alexei Ivanov	Testing snowball Earth hypothesis for Gaskiers glaciation
	#245	Rajendra Singh Raghuvanshi	Provenance and Source rocks of Precambrian Arenites from Vindhyan Basin , Central India
	#246	Patricia Vickers-Rich	New Discoveries of Ediacarans/Vendians in Namibia, Saudi Arabia, India and Argentina
	#247	Jiafei Xiao	Characters of Nanhuaan section from Congjiang County of Guozhou Province, China
18.4	#248	Patrícia Duffles	Geochronological, geochemistry and petrology data on Embu Complex, Central Segment of the Ribeira Orogen, Brazil
	#249	Mauro Geraldés	Rapakivi magmatism in the SW of Amazonian Craton: The bearing of source and tectonic setting to generate A-type magmas
	#250	Pablo Lara	Late Neoproterozoic granitoid magmatism in the southernmost section of the Dom Feliciano Belt, Uruguay

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Symposium #	Poster Board	Presenter	Title
	#251	Evgenii Sharkov	Two different Paleoproterozoic large igneous provinces in the eastern Fennoscandian Shield
	#252	Anup Sinha	Petrological characterization of Proterozoic mafic dykes from the Singhbhum craton, eastern India
	#253	Yong-Sun Song	SHRIMP U-Pb ages for Paleoproterozoic granitoids in the SW Yeongnam Massif, Korea and their tectonic implications
	#254	Reddy Talusani	Magmatic evolution of the Mahakoshal greenstone belt, central India
18.5	#255	Rafael Rodrigues Assis	Paleoproterozoic polymetallic epithermal deposit in the Alta Floresta Gold Province, Amazon Craton (Brazil).
19.1	#256	Suzanne Golding	Multiple sulfur isotope records in Archean seafloor mineral systems of Western Australia
	#257	Francisco Hervé	Provenance variations in the Late Paleozoic accretionary complex of central Chile as indicated by detrital zircons.
	#258	Igor Kapitonov	Dating of multi-stage reworked Archean and Proterozoic rocks from Onega parametric drill on the Onega structure, Karelia, Russia
	#259	Igor Kapitonov	In-situ U-Pb age and REE geochemistry of accessory baddeleyite from Proterozoic alkaline-ultrabasic Tikshezero massif, northern Russian Karelia
	#260	Hyeoncheol Kim	Geochemical and geochronologic study of Mesozoic granites in Seoraksan National park, South Korea
	#261	Insung Lee	Multiple sulfur isotopic composition of the seafloor hydrothermal vent precipitates from southernmost Tonga Arc volcanoes, southwest Pacific
	#262	Celine Martin	Trace element patterns and REE and Hf distribution among mineral phases in CK: a way to explain eHf variations in CHUR
	#263	Alexander Middleton	The Geochemistry and Geochronology of Fluid Flow Events from the Eastern Galilee Basin Geothermal Prospect
	#264	Sergey Presnyakov	U-Pb SIMS SHRIMP study of zircons from enigmatic Patom Crater, East Siberia, Russia
	#265	Tatiana Rusakova	On the time of the Okhotsk-Chukchi volcanic belt formation (North-Eastern Russia)
	#266	Abolfazl Soltani	U-Pb zircon and Rb-Sr geochronology of Bornavard granitoid, NE Iran
	#267	Joonas Virtasalo	Iron and sulfur isotope heterogeneity in pyrite fillings of Holocene worm burrows
	#268	Andong Wang	Two contrasting Pb-isotope compositions of the lower crustal rocks in the southeastern margin of the North China Craton
	#269	Dingwu Zhou	U-Pb Zircon Dating Information Tracing of the Junggar Basin Basement
	#270	Su Zhou	Distribution of volcanic rocks of Miocene and its dynamic implication in the Tangra Yumco area, Tibet
19.2	#271	David Fink	Radiocarbon surface ocean reservoir ages over the past 5,000 years from Porites microatolls, Christmas (Kiritimati) Island, central Pacific Ocean.
	#272	Mia Kotilainen	Developing a geochronology for Holocene Baltic Sea sediments: challenges in fine grain-quartz OSL dating

Poster Session - Thursday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
	#273	Robyn Pickering	The world's oldest sea caves? Combined U-Pb, TT-OSL and palaeomagnetism provide new 1 Ma age at Pinnacle Points, South Africa.
	#274	Gilbert Price	Is Neds Gully really the youngest Pleistocene megafauna deposit in Australia?
	#275	Sarah Rittner	Electron spin resonance dating of quartz from the Coorong-Gambier Coastal Plain, southeastern South Australia
	#276	Gideon Rosenbaum	Dating fault activity: U-Th geochronology of calcite precipitates within striations and veins
	#277	Cesar Varajao	Long-term ^{10}Be denudation rates in hydrographic basins affected by panning in Southern Espinhaço range, Brazil
19.3	#278	Isabela Carmo	$^{40}\text{Ar}/^{39}\text{Ar}$ weathering geochronology on manganese oxides from Bahia, NE Brazil
	#279	Benjamin Cohen	Cooling history of two large early Miocene shield volcanoes, eastern Australia, constrained by U-Pb, $^{40}\text{Ar}/^{39}\text{Ar}$, and (U-Th-Sm)/He chronology
	#280	Sharmistha De Sarkar	Onset of denudation influenced rapid uplift around 1Ma, Western Arunachal Himalaya, India
	#281	Dayna Mcgeeney	Stratigraphy and Age-Dating of the Kiriwina Formation, Woodlark Island, Papua New Guinea
	#282	Victor Sacek	Using numerical models to quantify surface and tectonic processes: the evolution of the Brazilian margin
	#283	Chuanbo Shen	Zircon fission track and U-Pb double dating by LA-ICP-MS for Cretaceous strata from the Jiangnan basin, central China: provenance and tectonic implication
	#284	Yuntao Tian	Constructing the Longmen Shan, eastern margin of the Tibetan Plateau: constraints from low-temperature thermochronology
	#285	Caifu Xiang	Transient Fluid Flow in the Binbei District of the Songliao Basin: Evidence from Apatite Fission Track Thermochronology and Vitrinite Reflectance
	#286	Hui Xiao	Detrital zircon and apatite Fission Track Thermochronology and long-term denudation response to tectonics. In: Kuruketage uplift, NE Tarim Basin, China
20.1	#287	Joseph Leach	Constraints on Martian channel formation chronology: a study from the basalt plains of Western Victoria.
	#288	Loredana Pompilio	The mineralogy and chemistry analyser (MARS-XRD) for the EXO-MARS 2018 mission to Mars
20.2	#289	Loredana Pompilio	SHARAD analysis of Promethei Lingula (Mars): Evidences of angular unconformities and possible 'crevasse-like' structures within South Polar Layered Deposits
	#290	Loredana Pompilio	Radar stratigraphy of the northern and central Greenland ice cap: groundtruth for SHARAD data
20.3	#291	Lian-Kun Sha	A theoretical model for the solubility of whitlockite in silicate melts: implications for the evolution of the lunar magma ocean
21.1	#292	Yongjun Di	Chronology of the monzonite porphyry from the Chuankeng copper mine district in northeastern Jiangxi Province and prospecting potential
	#293	Thomas Dittrich	Comparative study of Archaean greenstone-belt hosted LCT pegmatites

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Symposium #	Poster Board	Presenter	Title
	#294	Zuohai Feng	SHRIMP zircon ages and origins of Guiling monzogranites and their mafic microgranular enclaves linked to the break-up of Rodinia
	#295	Mikhail Gelman	Late Mesozoic granitoids of the Yana-Kolyma gold-bearing province, North-East Russia
	#296	Victoria Marshall	Zircon chronochemical studies of high heat-producing granites – an example from the Nettle Granite, Hodgkinson Province, north Queensland
	#297	Ana Martinez	Petrographic evidence of magma mixing and mingling processes in the Arequipa Segment of the Coastal Batholith in Southern Peru
	#298	Reza Monazzami Bagherzadeh	Geochronology (U-Pb) zircon at the Taknar zone rhyolites and acidic and intermediate bodies and tectonic setting in North East Iran (North west Bardaskan city)
	#299	Zhuolun Peng	Composition-variation of Inhomogeneous Mafic Enclave and Its Geological Implication
	#300	Lian-Kun Sha	Contrasting mechanisms of fractional crystallisation between basaltic and granitic magmas
	#301	Kyo-Young Song	The Triassic Granite Suite in Yangyang area, South Korea.
	#302	Lijuan Wang	Geochemical studies on the alkaline granites and tin deposits in the Beilekuduk tin metallogenic belt, North Xinjiang, China
	#303	Jie-Hua Yang	Texture and compositional zoning of garnet and its petrological implications examples from the W mineralized Xihuashan granite, South China
21.2	#304	Mikhail Gelman	Late Mesozoic batholiths in the Northeastern Asia
	#305	You Bong Kim	Geometrical Reconstruction of the late Cretaceous Misiryeong Laccolith
	#306	Shan Li	Geochronology, petrogenesis and tectonic implications of Triassic granitoids from Beishan, NW China
	#307	Zhongping Ma	Characteristics of Paleozoic intrusions from the Nalati area in western Tianshan, Xinjiang, China: Implication for Paleozoic tectonic evolution
	#308	Roland Maas	Are SE Australia's Paleozoic fold belts underlain by Proterozoic crust ? Insights from isotopic studies of Devonian granites
	#309	Imrie Meek	Using Trace Element Chemistry of Igneous Rocks to Track Changes in Crustal Thickness: A case study of the Southern New England Orogen, Eastern Australia
	#310	Nestor Vegas	Structure of two late post-collisional variscan plutons of the NW Iberian Massif
	#311	Yang Wang	The Mesozoic granitic magmatism and orogenic evolution of South China
	#312	Xuechun Xu	Petrology and Geochemistry of Aguigou Magmatic Intrusion in Daqingshan District of Inner Mongolia, China
	#313	Jinyang Zhang	Early Paleozoic calc-alkaline adakitic granitoids and alkalic diabase dykes in the eastern Kunlun orogen: Implications for melt-mantle interaction and post-collisional initiation
21.6	#314	Peter Marshall	Borehole Volcanostratigraphy of the Central Kalkarindji CFBP, Australia
	#315	Trishya Owen-Smith	Petrogenesis of the Doros Gabbroic Complex, Namibia: Multiple mingling magma mushes?

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Symposium #	Poster Board	Presenter	Title
	#316	Mike Widdowson	Subsidence, submarine volcanism and the emplacement of the Emeishan CFB of SW China
22.2	#317	José Julián Esteban	On the use of SEM techniques to determine clockwise or counterclockwise P-T paths: insights from metapelites (Yunquera Unit, Betic Cordilleras, Spain)
	#318	Jörn H. Kruhl	Fabric development in a crystal-melt mash at variable strain and cooling rates
	#319	Matthijs Smit	Divalent cation diffusion in garnet as a tool to constrain peak metamorphic temperatures
	#320	Pui Yuk Tam	Petrology and metamorphic P-T path of high-pressure mafic granulites from the Jiaobei massif in the Jiao-Liao-Ji Belt, North China Craton
22.4	#321	Hui Cao	The Affect of Gravitational Collapse to Foliation Development and forming of Regional Folding in Different Depth
	#322	Jing Chen	Natural CuS ₂ in ultrahigh pressure (UHP) eclogite from the Sulu belt, China
	#323	Daniel Connelly	Pseudotachylite Breccias of Mount Cuthbert, Mount Fraser, and the Kelly Hills, NT, Australia
	#324	José Julián Esteban	TITANIQ geothermometer testing on garnet-pyroxenites
	#325	José Julián Esteban	Geodynamic interpretation of the ultra-high pressure metamorphism in the Ronda peridotites (Betic Cordilleras, southern Spain)
	#326	Fawna Korhonen	Long-lived ultrahigh temperature (UHT) metamorphism in the Eastern Ghats orogenic belt (India): Constraints from zircon and monazite geochronology
	#327	Liang Liu	Discovery and implication of the K ⁺ Ccymrite in Grt ⁺ Cbearing granitic gneiss from South Altyn Tagh UHP Terrane
	#328	Rodrigo Melo	Thermobarometric studies into a low to intermediate pressure zone in Guaxupé Complex, a lower crustal sequence in Southeastern Brasilia Belt
	#329	Hassina Mouri	PGE-bearing ultramafic granulites from the Archaean high-grade Central Zone of the Limpopo poly-metamorphic belt, South Africa: were they komatiites?
	#330	Saeideh Sanieinezhad	Petrography, geochemistry and evidence of shear fabric in metabasite of North Fereydonshahr, Iran
	#331	Ying-Ming Sheng	Partial melting and element transfer during continental subduction-zone metamorphism: insights from metamorphic vein within UHP eclogite in the Dabie orogen
	#332	Zuolin Tian	Metamorphism of ultrahigh-pressure eclogites from Kebuerte Valley, South Tianshan, NW China: Phase equilibria and P ⁺ CT path
22.6	#333	Danling Chen	Zircon U ⁺ CPb age and Lu-Hf isotope composition of eclogite from Kaipinggou region, the North Qaidam, western China: tracing the assembly of the Rodinia supercontinent
	#334	José Julián Esteban	Application of garnet-xenotime geothermometry to the garnet-bearing micaschist of the Yunquera Unit (Betic Cordilleras, southern Spain)
	#335	Nigel Kelly	Constraints on the timing of migmatization in the Larsemann Hills, Prydz Bay, east Antarctica: An integrated U-Pb and trace element study of zircon, monazite and garnet

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Symposium #	Poster Board	Presenter	Title
	#336	Yican Liu	An extended high-temperature metamorphism in granulitized eclogites from the Dabie orogen: Constraints by Ti-in-zircon and Zr-in-rutile thermometers
	#337	Marcio Pimentel	Ti-in-zircon thermometry and the role of coupled dissolution-reprecipitation process: constraints from Central Brazil
	#338	Delia Rösel	U-Pb age response of detrital rutile to prograde metamorphism
	#339	Gavril Săbău	Extended thermotectonic evolution in the South Carpathian basement units revealed by U-Th-Pb chemical monazite ages
	#340	Xingzhou Zhang	Zircon U-Pb study of the Heilongjiang Complex in the NE China: evidence and tectonic implications
	#341	Jianbo Zhou	Zircon U-Pb and Lu-Hf isotope study of the Neoproterozoic Haizhou Group in the Sulu orogen: provenance and tectonic implications
23.2	#342	Petr Budil	Juvenile phacopid trilobites of the Prague Basin (Barrandian area, Czech Republic)
	#343	Lenka Ferrova	High-resolution tentaculite biostratigraphy as a key for progress in the Emsian stratigraphy: new data on the Daleje Event from the Barrandian (Bohemia)
	#344	Kunio Kaiho	Massive soil erosion during the Late Devonian mass extinction and the current biotic crisis
	#345	Tin Tin Latt	Middle Permian gigantic Parafusulina from the Zwekabin Range, southeastern Myanmar, a potential significant taxon of the eastern Cimmerian Continent
	#346	Huaibao Liu	Bromalites from the Middle Ordovician Winneshiek Lagerstätte, northeast Iowa, USA
	#347	Fiona Maceachern	New taxa from the Late Carboniferous Ganikobis Formation (Dwyka Group) of Namibia, with discussion of the Palaeoecology of the unit
	#348	Oriol Oms	The Pliocene Camp dels Ninots maar (Catalonia, Spain): key locality for terrestrial vertebrates and paleoenvironmental change of SW Europe.
	#349	Olga Orlova	Early Carboniferous plant communities of South Urals (Russia)
	#350	In Sung Paik	Occurrences, preservation and paleoenvironmental implications of the Early Miocene plant fossil-bearing fluvio-lacustrine deposits, Pohang, Korea
	#351	Fresia Ricardi-Branco	Fossil wood from Permian of Western Gondwana in Brazil.
	#352	Fresia Ricardi-Branco	A new approach to Late Paleozoic paleobotanical studies on the eastern border of Paraná Basin's Brazilian section, using Geographic Information Systems.
	#353	Takao Ubukata	A three-dimensional morphometric method for bivalve shell form
23.8	#354	Laia Alegret	Environmental controls on the paleogeographical distribution of the earliest Eocene Glomospira acme
	#355	Tatiana Dmitrieva	Palaeoecology of Cenozoic benthic foraminifers of the West Kamchatka (Northwest Pacific)
	#356	Richard Fluegeman	Constraining the age of deformation in the Noumea Basin: biostratigraphy of the Eocene 'Globigerina Limestones' of New Caledonia
	#357	Silvia Ortiz	Deep-sea turnover during the Ypresian-Lutetian transition, the inception of the Cenozoic global cooling trend

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Symposium #	Poster Board	Presenter	Title
	#358	In Sung Paik	Preliminary study on the taphofacies and paleoenvironmental implications of the diverse fossil-bearing hemipelagic deposits in the Duho Fomation (middle Miocene), Pohang City, Korea
	#359	John Pandolfi	Palaeoenvironmental reconstruction of marine environments from Sarawak, Malaysia
24.2	#360	Telm Bover-Arnal	Slope-dwelling non-reef-building Aptian corals of the western Maestrat Basin (Spain)
	#361	Max Brown	Drowning of a reef platform and lagoon, and glacio-eustatic cycles of carbonate sedimentation. The Carboniferous Eyam Limestone of Derbyshire, UK.
	#362	Natalia Fortunatova	The main stages of Reef Development and the Structure of Paleozoic Carbonate Formations of the East European Platform
	#363	Xiaolan Hu	Identification and distribution characteristics of carbonate bank (Ordovician, the Tarim basin), Northwest of China
	#364	Adeline Kerner	Archaeocyathan knowledge base: influence of the sections orientation for identification
	#365	Olga Kossovaya	From Photozoan to Heterozoan reef mounds: Permian, East European Platform
	#366	Tsutomu Nakazawa	Evolutionary trend and turnovers of reef communities on Carboniferous–Permian Akiyoshi oceanic atolls, SW Japan
	#367	Werner Piller	The global distribution of Late Ordovician reefs confirms the poly-phased nature of the Hirnantian ice age
	#368	Amit Segev	Mount Carmel, Israel: a window to the north-western edge of the Arabian platform during the Albian-Turonian
	#369	David Van Rooij	COCARDE: new view on old mounds – an international network of carbonate mound research
24.3	#370	Gilbert Camoin	Characterisation of potential lacustrine carbonate reservoirs: case study from the Eocene Green River Formation.
	#371	Kristen Parmeter	The geological development of fossil site AL90, Riversleigh World Heritage Area, Far NW Queensland, Australia
	#372	Xuan Qiu	Magnesium enrichment in minerals induced by active cyanobacteria biofilm
25.6	#373	Dmitry Kaminsky	Features of abundance and composition of oceanic hydrothermal sulfide ores
	#374	Akira Usui	Patterns of Regional and Secular Variations in Composition, Mineralogy and Microstructure of the Hydrogenetic Ferromanganese Crusts over the NW Pacific Seamounts
26.1	#375	Glenn Brock	Hot fossils in a cold land: early Cambrian stem group bilaterians from Antarctica
	#376	Leo Peters	Shallow crustal structure and basal morphology beneath Thwaites Glacier, West Antarctica, and its influence on ice dynamics
26.4	#377	Fausto Ferraccioli	Imprints of Rodinia break-up and earlier supercontinental assembly in interior East Antarctica
	#378	Fausto Ferraccioli	Subglacial extent of the Weddell Sea Rift revealed along the boundary between East and West Antarctica
	#379	Kenji Horie	U-Pb geochronology in western part of the Rayner Complex, East Antarctica

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Symposium #	Poster Board	Presenter	Title
	#380	Evgenii Mikhalskii	Geochronology of the Prince Charles Mountains and region: preliminary presentation of a GIS-based U-Pb dataset
	#381	Julius Sovetov	Cryogenian to Early Cambrian closure and opening cycles of Early Neoproterozoic ocean: evidence from sedimentary basin analysis in Karatau and Talas Mountains (Kazakhstan and Kyrgyzstan)
27.1	#382	Gi Young Jeong	Physical and chemical weathering by lichen in the maritime Antarctic
	#383	Elena Naimark	Effects of the leaching of kaolinite with purple non-sulfur bacteria.
27.2	#384	Ronald Harvey	Growth and survival of indigenous and non-native bacteria in a deep limestone aquifer in southeast Florida, USA
	#385	Lesley Warren	Microbial H ₂ S generation within Syncrude composite tailings
28.4	#386	Valerii Fridovskii	Evolution of Cryohydrosphere Near Diamond Deposits of Western Yakutia
	#387	Steven Lewis	Hydrogeochemistry of the Kingoonya Palaeovalley, South Australia
	#388	Claudio Moya	A Preliminary Hydrochemical-Geological Assessment of the Galilee and Eromanga Basin Groundwaters, Queensland
	#389	Sueli Yoshinaga Pereira	Evaluation of low enthalpy geothermal resources in the Paleogene rift basin of Taubaté, east portion of São Paulo State, Brazil
28.5	#390	Andrea Bacani	Jakuševac landfill impact on the groundwater quality
	#391	Osamu Kazaoka	Recharge mechanism and oxidation-reduction condition of unconfined groundwater aquifer on Shimousa upland by in situ groundwater quality measuring in monitoring wells on each aquifer, northern Yachiyo city, Boso peninsula, southeast Japan
	#392	Liliana Minelli	Intermediate-field hydrogeological response induced by L'Aquila earthquake (6th April 2009): the Acque Albule hydrothermal system (Central Italy)
	#393	Asuka Sasaki	Groundwater chemistry, flow characteristics and pollution countermeasures around a tailings dam in Hokkaido, Japan
	#394	Peter Swift	Inverse modeling of experiments to support more realistic simulations of sorbing radionuclide transport
	#395	Jianwei Zhou	Vulnerability assessment using groundwater dating through sulfur hexafluoride (SF ₆)—CA case study in the Daqing Oilfield
28.6	#396	Gleb Batrak	Use of groundwater regime observations for numerical simulation of groundwater dynamics due to construction of responsible facilities
	#397	Yali Cui	Estimation of groundwater withdrawal based on coupled groundwater flow and land subsidence modeling: a case study of the plain area of Tianjin
	#398	Daniela Gamito	Behavior of metal ions in aquifers - Experimental studies
	#399	Jingli Shao	Groundwater flow simulation and evaluation of groundwater resources of the affected zone along the Yellow River (Henan Section)
	#400	Heather Sheldon	escriptRT: A tool for simulating complex hydrothermal systems
	#401	Xuyan Wang	Uncertainty analysis in calibration of a regional fault zone groundwater flow model using self-organizing polynomial neural network

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Symposium #	Poster Board	Presenter	Title
29.3	#402	Jiawei Chen	Several types of NZVI's toxicity and reactivity in the environment
	#403	Rose Fouateu Yongue	A geological study of Bamendjing clay materials (West Cameroon)
	#404	Xiang Gao	The evidence of authigenic clay minerals from surface sediments of modern salt lakes, the Hoh xil Area, China
	#405	John Keeling	Characterisation of properties of various halloysites relevant to their use as nanotubes
	#406	Carmen Krapf	Broad-scale regolith mapping: compilation of the South Australian regolith map - a useful tool for mineral exploration
	#407	Hongmei Liu	The effect of the acidity of montmorillonite on the thermal degradation of 12-Aminolauric acid
	#408	Xiancai Lu	Influences of primary processing on surface properties of crude palygorskite ore
	#409	Boris Malkin	The global peneplain existence
	#410	Siyan Malomo	Evaluation of some Nigerian bentonitic clay for use as drilling mud
	#411	Yukari Miyashita	A new method for evaluating fault activity based on fault gouge properties
	#412	Eric M. Roberts	Did the Western and Eastern branches of the East African Rift System develop synchronously?
	#413	Qi Tao	In-situ silylation of layered double hydroxides via an improved sol-gel route
	#414	Frederick Theiss	Applications of layered double hydroxides for water purification
	#415	Habib Allah Torshizian	Brines evolution in Hassan-Abad playa in Central Iran, and its comparing with some saline lake in the world
	#416	Tobias Weisenberger	Low-temperature mineral formation - feedback on fluid evolution in volcanic rocks of Kahrizak, southern Tehran, Iran
	#417	Hongbo Zheng	A Pre-Miocene Birth to the Yangtze River
	#418	Jianxi Zhu	Intercalation mechanism of zwitterionic surfactant modified montmorillonite
	#419	Runliang Zhu	Influence of inorganic cations on the hydration and adsorption of montmorillonite: A MD investigation
30.3	#420	Michele Daly	Volcanic Impacts Study Group - working with utility infrastructure organisations to improve research on and understanding of volcanic ash impacts and mitigation measures
	#421	Graham Leonard	New Zealand's Next Top Model: Integrating Tsunami Inundation Modelling into Land Use Planning.
	#422	Jiliang Zhu	Development and Application of Unplanned Geohazards Monitoring and Prewarning Equipment
	#423	Qingxiang Zhuang	Research and exploration on Enhanced Geothermal System, Disaster Reduction of Earthquake Prevention
31.4	#424	Maria Rita Barros Leite De Moraes	Geological Risk Management in São Vicente, São Paulo, Brazil.
	#425	Xingming Chu	Application of Soil Radon Measurement Method in Fault Surveying
	#426	Souleymane Diop	Reliability of electrical resistivity tomography (ERT) method for geotechnical investigations in dolomitic land: A case study in Khutsong Township, Carletonville, South Africa

Poster Session - Thursday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
	#427	Angelo Doglioni	Data mining technique as support to natural hazard management
	#428	Naoko Kitada	Consideration about Subsurface structure using geotechnical borehole database in Osaka
	#429	Ciro Manzo	Engineering geological mapping in Tuscany (Italy)
	#430	Luciana Orlando	Slope dynamics, monitoring and geological conservation of the Siq of Petra (Jordan)
	#431	Yasuhito Sasaki	Road Slope Disaster Knowledge Database for Risk Management in Japan
	#432	Guangli Xu	Surrounding Slope and Rockfall Risk Analysis for Large Hydropower Project
32.2	#433	Florian De Boissieu	Airborne hyperspectral remote sensing for vegetation mapping in New Caledonia
	#434	Donald De Vries	Imaging Spatially Distributed Near Ground CO ₂ and CH ₄ Soil Seep Emissions
	#435	Veronika Kopackova	Application of mineral and image-based spectroscopy to mapping surface pH at open pit lignite mines: Multi-temporal approach
	#436	Jesus Martinez-Frias	Hyperspectral remote sensing applied on anomaly detection and hydrothermal alteration in the Central Volcanic Range, Costa Rica.
32.4	#437	Michael Doublier	Short wavelength infrared spectroscopy (SWIR) as a tool for very low-grade petrology
36.3	#438	Veniamin Chekalin	The Rubtsovskoe VHMS deposit, NW Altai, Russia: conditions of formation
	#439	Boris Dyachkov	Kalba-Narim rare metal belt: geotectonic position, geology and metallogeny characteristics, prognostically-prospecting criteria and new perspective
	#440	Boris Dyachkov	Location regularities of pyrite - polymetallic ore deposits perspectives for strengthening of Rudny Altai ore base
	#441	Nikolay Gusev	Iron oxide Cu-Au-REE hydrothermal-metasomatic system (IOCG-type) of Big Altai
	#442	Inna Kozhevnykh	Interrelation between sulphide-polymetallic and iron-ore belts in the Altai
	#443	Inna Kozhevnykh	Stages of geological development of Gorny Altai and Rudny Altai in Devonian based on paleogeographic reconstructions
	#444	Alexander Kremenetskiy	Transverse inhomogeneity and a new riftogenic shear model of Ural formation
	#445	Alexandr Salnikov	The Earth's crust deep structure of the Altai-Sayan region on evidence derived from deep seismic sounding
	#446	Sergey Smirnov	Geochemistry of rare-metal rich granites in the Eastern Kazakhstan dyke belts
36.5	#447	Elena Anikina	The forming conditions of Ag-polymetallic Mangazeykoe deposit (Russia, Sakha-Yakutia)
	#448	Tao Ren	Unusual aqueous inclusions in Langdu skarn copper deposit, NW YunNan, China
	#449	Yuri Ribeiro	Preliminary fluid inclusion data in quartz veins associated with gold mineralisation of the Córrego do Sítio Lineament, Santa Bárbara, Quadrilátero Ferrífero, Minas Gerais, Brazil.

Poster Session - Thursday - Mezzanine Level continued

Symposium #	Poster Board	Presenter	Title
	#450	Lida Sadeghi	Stabel Sulfur Isotope variation and Fluid Inclusion Studies from Epithermal Fluorite- Galena Veins near Gonabad, East of Iran
	#451	Hao Wei	Melt and fluid inclusions in the Wulaga gold deposit, Heilongjiang, China
37.2	#452	Hisao Adachi	Cenozoic tectono-magmatism in the Fossa Magna, Central Japan
	#453	Pencho Binev	From a solar protuberance to volcanic and seismic activities on Earth
	#454	Teodosio Chavez C	Vernal Point and Earth Rotation
	#455	Kensho Iikawa	Pulsating Crustal Movement in Central Honshu, Japan
	#456	Dmitry Kaminsky	Features of Regular Fracture-lineament Global Network
	#457	T. Frank Lee	A non-subjective method of plotting any single continental plate back in time using published paleomagnetic poles.
	#458	T. Frank Lee	Magnetism. The uniaxial transfer of d-electrons between Fe-atoms leading to an explanation of the origin of the Earth's magnetic field.
	#459	T. Frank Lee	The use of basic physics theories to determine the step-by-step development of our solar system.
	#460	Bruce Leybourne	Climate connection to time varying nuclear decay rates
	#461	Bruce Leybourne	Florida hurricanes and grounding of global electric circuits
	#462	Mansour Samimi Namin	Earth Crust Deforming Force and the Earth Crust Deformation
	#463	Kirill Staroseltsev	Alternative approaches to the interpretation of global tectogenesis
	#464	Valentino Straser	Seismic precursors preceding M6+ earthquakes from 60 days to 2'. Proposal for an Interdisciplinary Study Method.
	#465	Yasumoto Suzuki	Recent successive occurrence of destructive earthquakes in Japan
	#466	Irina Zhulanova	The Cenozoic Destructive Concenters - a new category of the Earth's ring structures

Friday Program

FRIDAY 10 AUGUST 0830 - 1030

1.1 - Session 5 - Geoparks: a global initiative linking heritage, local communities and sustainable development
0830 - 1030
Boulevard Auditorium

Time		
0830	#3264	<i>The UNESCO Global Geoparks Network</i> Patrick McKeever & Nickolas Zouras (Joint Keynote)
0900	#3265	Exploring new pathways for geopark development in Australia Angus M Robinson
0915	#3266	Jeju island, the first Global Geoparks Network member in Korea: Geological features Sung Rock Lee
0930	#3267	Stonehammer Geopark - public engagement and 'a billion years of stories' Randall Miller
0945	#3268	Establishing Africa's potential geoparks: The case of Uganda. Ivy Ddamba
1000	#3269	Meeting the imperative of sustainable development in geoparks: Case study of Mt Suswa volcano, Kenya - an aspiring African geopark Sadrack Felix Toteu
1015	#3270	Potential and progress of geopark and geotourism development in Vietnam Tan Van Tran

2.3 - Session 1 - Developing geoscience education and awareness for the benefit of society
0830 - 1030
GeoExpo Hospitality Room 2

Time		
0830	#3271	<i>Students as principal stakeholders for geoscientific awareness for sustainable development</i> Mike Katz (Keynote)
0900	#3272	<i>Earthlearningidea, a globally accessed website of Earth science learning activities</i> Chris King (Keynote)
0930	#3273	Geoscience Awareness in Nigeria Olugbenga Okunlola
0945	#3274	Human ecology and geoscience awareness Mohammad Nurul Hasan
1000	#3275	Taking Earth science education to science teachers - twelve years of ESEU Chris King
1015	#3276	Improving Africa's mapping capabilities for the benefit of society Patrick Wall

3.6 - Session 1 - Greenhouse world and rapid climate change during the Mesozoic [International Geoscience Program (IGCP) 555, IGCP 507 and International Continental Drilling Program (ICDP) Songliao Project]
0830 - 1030
F1 - Training Room

Time		
0830	#3277	<i>Early Cretaceous carbon cycle, climate and oceanography - volcanic, orbital and tectonic forcings</i> Helmut Weissert (Keynote)
0900	#3278	Late Barremian-early Aptian climate of the northern middle latitudes: stable isotope evidence from bivalve and cephalopod molluscs of the Russian Platform Yuri Zakharov
0915	#3279	<i>Continental Scientific Drilling Project of Cretaceous Songliao Basin: Continuous High-resolution Terrestrial Archives and Greenhouse Climate Change</i> Chengshan Wang (Keynote)

FRIDAY 10 AUGUST 0830 - 1030 continued

0945	#3280	Carbon-isotope signatures of pedogenic carbonates from SE China: Rapid atmospheric pCO ₂ changes in the mid-late Early Cretaceous Xianghui Li
1000	#3281	Late Cretaceous seawater incursion and lacustrine environment, Songliao Basin, northeastern China Dangpeng Xi
1015	#3282	Evidence for extensive Late Cretaceous glaciation of the greater New Zealand region Nicholas Powell

3.7 - Session 3 - Pre-Mesozoic Climates and Global Change (IGCP 591): Paleozoic Biotic Events and Paleoclimate 0830 - 1030 Boulevard Meeting Room 1

Time		
0830	#3283	<i>End Ordovician extinctions: biotic change through a multicausal catastrophe</i> David Harper (Keynote)
0900	#3284	Links between the Great Ordovician Biodiversification Event and the environmental instabilities Elise Nardin
0915	#3285	Graptolite recovery and radiation after the Late Ordovician extinction: a quantitative biostratigraphic analysis based on material from South China Junxuan Fan
0930	#3286	Insularisation and extinction of the Late Ordovician brachiopod fauna in epicontinental seas of North America Jisuo Jin
0945	#3287	Nautiloid Cephalopod distribution as an indicator of eustatic and climatic change during the Silurian Kathleen Histon
1000		Discussion of topics in sub-symposium

3.8 - Session 1 - Climate change and biodiversity patterns in the Mid Paleozoic [IGCP 596, IGCP 580 and SDS] 0830 - 1030 Arbour Meeting Room 1

Time		
0830	#3288	<i>The Devonian carbonate platform from Belgium: a multi-faceted approach for basin evolution reconstruction</i> Anne-Christine Da Silva (Keynote)
0900	#3289	Geophysical record of the Middle Devonian Basal Chotec event in Perigondwanan, Laurussian and Central Asian terranes: possible global pattern reflecting palaeoclimatic record Leona Koptikova
0915	#3290	Carbon isotope geochemistry and clay mineralogy of Lower Famennian deposits in the Timan-northern Ural Region - implications for palaeoclimatologic changes Peter Koenigshof
0930	#3291	Local variations of the global Annulata Events and Dasberg Crisis biofacies Sven Hartenfels (Invited)
0945	#3292	Recognition of the Kellwasser Event (Late Devonian) in the Hongguleleng Formation, Xinjiang Province, China Johnny Waters
1000	#3293	Late Visean to Gzhelian foraminiferal assemblages from the Paleo-Tethyan seamount-type carbonates in the Changning-Menglian Belt, West Yunnan, Southwest China Tin Tin Latt (Invited)
1015	#3294	Millennial and orbital changes of Asian Monsoon inferred from Chinese stalagmite data Yongjin Wang

FRIDAY 10 AUGUST 0830 - 1030 continued

5.6 - Session 12 - Geostatistics for Modelling Complex Geological Systems

0830 - 1045

Plaza Auditorium

Time		
0830	#3295	Simulation of interpreted contacts of large geological deposits using multiple-point geostatistics Alexandre Boucher
0845	#3296	Resource estimate of a bi-modal gold deposit: merging simulated high-grade ore shoots with kriged background mineralisation - a case study Steffen Brammer
0900	#3297	Future trends in multiple-point geostatistics Jef Caers
0915	#3298	An improved methodology for 3D multiple-point simulations from 2D training images Alessandro Comunian
0930	#3299	Geostatistical interpolation of sediments compaction curves in a basin Matilde Dalla Rosa
0945	#3300	<i>High-order simulation of spatially distributed geologic phenomena using spatial cumulants and empowered datasets</i> Roussos Dimitrakopoulos (Keynote)
1015	#3301	<i>A new angle: meandering river modeling using Direct Sampling</i> Gregoire Mariethoz (Keynote)

6.4 - Session 1 - Clean energy: options and limitations Sponsored by CO2 CRC

0830 - 1030

Plaza Meeting Room 5

Time		
0830	#3302	Limits to Electrical Grid Energy Storage Charles Barnhart
0845	#3303	The Energy Balance of the Photovoltaic (PV) Industry - Is the PV industry a net energy provider? Michael Dale
0900	#3304	Critical Elements for New Energy Technologies Murray Hitzman
0915	#3305	Key issues facing the development of large-scale wind: Results from the TCU-Oxford-Nextera Wind Research Initiative Michael Slattery
0930	#3306	Evaluating the Impact of the energy/water nexus: resource demands and implications for future development Terry Surles
0945	#3307	PANEL SESSION: Mike Sandiford and Peter Cook Panel members: Murray Hitzman, Andrew Orrell, Ron Oxburgh, Mike Sandiford, Michael Slattery, Terry Surles (papers by Mike Sandiford, Peter Cook (below), will be covered in the panel discussion)
	#3308	The ongoing use of fossil fuels and the aspiration of clean energy Peter Cook
	#3309	'Man as geological agent' revisited - an energy use perspective on crustal services Mike Sandiford

FRIDAY 10 AUGUST 0830 - 1030 continued

8.2 - Session 1 - The science of exploration targeting *Sponsored by Newcrest Mining* 0830 - 1030 Mezzanine Room 4

Time		
0830	#3310	The Paris silver discovery: Example of a successful research strategy in the Junior minerals exploration sector John Anderson
0845	#3311	<i>Seeing what isn't there: the gap in exploration targeting</i> Steve Beresford (Keynote)
0915	#3312	Discovery and Delineation of the Mahab 4 VMS deposit Oman Robert Close
0930	#3313	Linking magmatism, granite dome formation, and gold mineralization (Southern Cross district, Yilgarn Craton) Michael Doublier
0945	#3314	Placer deposits: where should we look next? Surface Processes Modelling applied to mineral exploration. Guillaume Duclaux
1000	#3315	Tips and tricks to know about porphyry copper deposits in Kerman copper-bearing belt Mansour Ghorbani
1015	#3316	3D Geophysical and Mineral Potential Modelling of the Quamby area, Queensland Matthew Greenwood

9.5 - Session 1 - Sediment and/or greenstone-hosted gold [Society of Economic Geologists] 0830 - 1030 Great Hall 4

Time		
0830	#3317	The mechanical and fluid pressure evolution of the Argo fault zone, St Ives goldfield, Western Australia: an example of an Archean, shear-hosted, mesothermal gold system Stephen Cox
0845	#3318	Role of metamorphism and deformation in concentration and remobilisation of Au-bearing sulphides in the Bhukia-Jagpura gold prospect, south Rajasthan, India Swati Deol
0900	#3319	Metamorphic fluid production from mafic rocks: a mechanism for the formation of poly-mineralised gold deposits? Michael Gazley
0915	#3320	Characterisation of native gold microstructures Angela Halfpenny
0930	#3321	The metamorphic rock-hosted gold mineralization at Bombana, Southeast Sulawesi: A new exploration target in Indonesia Arifudin Idrus
0945	#3322	Mapping Electric Field Distributions in Semiconducting Mineral Assemblages Using Laser Beam Induced Current Microscopy Jamie Laird
1000	#3323	Genesis and Mineralization of Gold-Bearing Quartz Veins in Xiao Qinling Area, Central China Jiwei Liang
1015	#3324	Gold hunting in Manica - Mutare - Odzi greenstone belt, West Mozambique and East Zimbabwe: Structural, metallogenic and lithological field evidences from Fair Bride mine Salvador Mondlane Junior

FRIDAY 10 AUGUST 0830 - 1030 continued

9.7 - Session 4 - Mineral deposits: episodes, accumulation of metals and related geodynamic processes in China and adjacent regions [IAGOD / IGCP-592]: Metallogeny, etc.

0830 - 1030

Great Hall 3

Time		
0830	#3325	Metallogenic Regularity and Prospecting Direction in Nanling Range, China Jian Ming Fu
0845	#3326	Magma evolution and ore-forming mechanism of Tulargen Cu-Ni-Co sulfide deposit: evidences from olivine, Re-Os and sulfur isotopic data He Sun
0900	#3327	Zn-Pb-Cu mineralization related to the Early Cretaceous intraplate orogeny: a case study on the giant Dongshengmiao deposit in the Langshan district, northern China Richen Zhong
0915	#3328	<i>Tectonic setting and mineral deposits of Myanmar</i> Khin Zaw (Keynote)
0945	#3329	The alteration, mineralization and mineral chemistry of the Nihe iron deposit, Anhui Province, China Lejun Zhang
1000	#3330	The alkali feldspar granite, liquid immiscibility and the tungsten mineralization in Nanling region, China Xinyou Zhu
1015	#3331	Mineralogy, geochemistry and genesis of certain bauxite profiles from Western India C V Dharma Rao

10.2 - Session 2 - Coal - a record of change

0830 - 1030

Mezzanine Room 3

Time		
0830	#3332	<i>Coal-bearing strata: Data for evaluating changing sea level, tectonics, sediment flux, climate, and more in the geologic past</i> Stephen Greb (Keynote)
0900	#3333	<i>Major controls on coal distribution through the Phanerozoic</i> Peter McCabe (Keynote)
0930	#3334	Archives of palaeoenvironmental and climate change: the palynological record of coal deposits Annette E. Goetz
0945	#3335	Geological evolution of lignite deposits in Ptolemaida - Amynteo basin from Lower Miocene to Present Dimitris Karageorgiou
1000	#3336	Evolution Characteristics and Mechanism of Macromolecular-Nanopore Structure in Tectonically Deformed Coals Xiaoshi Li
1015		The geophysical response of the exposed section of the northern Bowen Basin in central Queensland Bernie Stockill

13.7 - Session 1 - Modelling sedimentary systems

0830 - 1030

Boulevard Meeting Room 3

Time		
0830	#3337	<i>3D Stratigraphic and geomorphic modelling from source to sink</i> Tristan Salles (Keynote)
0900	#3338	Hot sedimentary aquifer characterization using stratigraphic forward modelling, Perth Basin, Australia Cedric Griffiths (Invited)
0915	#3339	Gippsland Basin - multiscale, multipurpose, stratigraphic forward modelling Cedric Griffiths

FRIDAY 10 AUGUST 0830 - 1030 continued

0930	#3340	Modeling of long-term coastal morphodynamics of the Pomeranian Bight, southern Baltic Sea Junjie Deng
0945	#3341	The construction and application of simulated lithological profile tuned by Milankovitch band Jifeng Yu
1000	#3342	<i>Quantitative Prediction of Future Coastal Change</i> Cedric Griffiths (Keynote)
1030	#3343	An Inverse Approach to Stratigraphic Modelling Stuart Clark (Invited)

13.8 - Session 1 - Global controls on sediment accumulation

0830 - 1030

Plaza Meeting Room 10

Time		
0830	#3344	Recognition of oscillating base level subcycle in S Reservoir in Bozhong Depression, Bohai Bay Basin, East China and its scientific significance Tingen Fan
0845	#3345	Oceanic Anoxic Event 3 (Coniacian-Santonian, Late Cretaceous): Implications from the European epi-continental sea (western Ukraine) Zofia Dubicka
0900	#3346	Provenance correlation of sandstone detrital zircons in the northern and southern piedmonts of Tianshan, Northwest China, and their responses to intracontinental basin-range evolution Zhong Li
0915	#3347	Multi-scale Cycles from Proterozoic sediments of the Kaladgi Basin, India Vivek Kale
0930	#3348	Early Triassic seismites and their geological significance in southeastern Sichuan Basin, China Tingshan Zhang
0945	#3349	Assessment of the relationship vertically stacked paleosols - global paleoclimate. An example from the Early Paleogene of Patagonia Argentina Javier Marcelo Krause
1000	#3350	Late Jurassic Tectonics in eastern Asia deduced by sedimentary geochemistry and textures of polycrystalline quartz in Jurassic sandstones in central Japan; provenance study of the Jurassic-Cretaceous Tetori Group Yuka Shiga

15.2 - Session 3 - Large asteroid impacts and crustal evolution: Part A - Environmental consequences of large impacts; Part B - Overseas impact structures

0830 - 1030

Plaza Meeting Room 8

Time		
0830	#3351	<i>Environmental and biological consequences of the Acraman impact</i> Kathleen Grey (Keynote)
0900	#3352	<i>The K-Pg boundary impact, from the surroundings of the Chicxulub crater to global effects</i> Jan Smit (Keynote)
0930	#3353	A possible relationship of Late Messtrichian mass-extinction horizon and magnetic spherules from the Fatehgarh Formation of the Barmer Basin with Siwana Ring Structure of the western Rajasthan, India. Suresh Mathur
0945	#3354	40Ar/39Ar dating of the Vista Alegre impact crater, Brazil Alvaro Crosta
1000	#3355	Kandimalal Geomorphology, The Wolfe Creek Meteorite Impact Structure. Susan Hopper

FRIDAY 10 AUGUST 0830 - 1030 continued

15.3 - Session 1 - Evolution and dynamics of the Indo-Australian Plate

0830 - 1030

Boulevard Room

Time		
0830	#3356	<i>Collisional Delamination in New Guinea: The Geotectonics of Subducting Slab Breakoff</i> Mark Cloos (Keynote)
0900	#3357	Geology of New Guinea - a synthesis Hugh Davies
0915	#3358	Geodynamics of the Maramuni arc, Papua New Guinea: Insights into the Late Tertiary tectonic evolution of the northern Indo-Australian plate boundary Robert Holm
0930	#3359	Magma genesis within the Hunter Ridge Rift Zone resolved from olivine-hosted melt inclusions and geochemical modelling with insights from geodynamic models Patricia Durance
0945	#3360	Ripping and tearing the rolling-back New Hebrides slab Gordon Lister
1000	#3361	Eocene-Oligocene ages of abyssal crust from the Rennell Basin, South Rennell Trough, D'Entrecasteaux Ridge and North Loyalty Basin Nick Mortimer

16.4 - Session 1 - Deep earth circulation

0830 - 1030

Plaza Meeting Room 3

Time		
0830	#3362	<i>High bulk modulus structures in the lower mantle from dynamic Earth models with paleogeography</i> Michael Gurnis (Keynote)
0900	#3363	Elastic state descriptions of geodynamic Earth models Hans-Peter Bunge (Invited)
0915	#3364	Constraints on mantle dynamics from numerical simulations Huw Davies (Invited)
0930	#3365	Dynamic causes of the relation between area and age of the ocean floor Nicolas Coltice (Invited)
0945	#3366	A dynamical model for the Earth's mantle since the Early Paleozoic Shijie Zhong
1000	#3367	Na-majorite Na ₂ MgSi ₅ O ₁₂ : phase relations, structural peculiarities and solid solutions (experiments at 7-25 GPa) Andrey Bobrov

18.5 - Session 1 - Metallogenic systems of the Proterozoic

0830 - 1100

Plaza Meeting Room 11

Time		
0830	#3368	Iron Oxides Chemistry from High-grade Iron Ore, Iron Quadrangle Ana-Sophie Hensler
0845	#3369	Mineralisation in the Mount Isa Inlier - the link between tectonic setting and mineralisation Laurie Hutton
0900	#3370	<i>Proterozoic high-grade BIF-hosted iron ore deposits: the result of complex hypogene-supergene fluid flow through extensional structures and associated fluid-rock reactions through time.</i> Steffen Hagemann (Keynote)

FRIDAY 10 AUGUST 0830 - 1030 continued

0930	#3371	Mineralogy and geochemistry of Neoproterozoic granites in the Telfer region, Paterson Orogen, Western Australia Christian Schindler
0945	#3372	Early growth faulting as a major control on the location of late epigenetic Cu deposits at Mt Isa and Gunpowder, Mt Isa Inlier, Qld Geoff Derrick
1000	#3373	Artificial chemical weathering of basaltic rock under the earth surface conditions of the Proterozoic era Shoichi Kobayashi
1015	#3374	Genesis of Multifarious Uranium Mineralization in the Beaverlodge Area, Canada Kurt Kyser
1030	#3375	<i>Metallogenic systems in the Proterozoic: unique or just a variation on a theme?</i> Kurt Kyser (Keynote)

19.2 - Session 1 - Dating our recent past - analytical methods in Quaternary geochronology and paleoclimatology: U-Th dating of carbonates - techniques and applications

0830 - 1045

Mezzanine Room 1

Time		
0830	#3376	<i>Overcoming the limits of U-Th: the chronology of speleothems from the early Quaternary and beyond</i> Jon Woodhead (Keynote)
0900	#3377	U-series dating of carbonates "C the University of Queensland protocol Jian-Xin Zhao
0915	#3378	U-series dating of CO ₂ degassing events in relation to seismicity and past climate changes I. Tonguc Uysal
0930	#3379	<i>Single-layer U-Th dating with 1-yr precision on laminated stalagmites</i> Chuan-Chou SHEN (Keynote)
1000	#3380	Discerning the timing and cause of historical mortality events in modern Porites from the Great Barrier Reef Tara Clark
1015	#3381	A high-resolution chronology for prehistoric settlement in Hawai'i Marshall Weisler (Invited)
1030	#3382	Update on the U-Th geochronology (inter-)calibration project Daniel Condon

21.2 - Session 1 - Granite versus orogenic style

0830 - 1030

Plaza Meeting Room 6

Time		
0830	#3383	Neoproterozoic granite suites in Central Hoggar (Algerian Sahara) Bernard Bonin
0845	#3384	Syn-melting Orogeny: On Relationship of In-situ Melting and Crustal Deformation Guoneng Chen
0900	#3385	Geochemistry and petrogenesis of Carboniferous-Permian granitoid in Alxa-BeiShan area, Inner Mongolia, China Ben Dang
0915	#3386	<i>Generation of Cenozoic granitoids in Hokkaido (Japan): constraints from zircon geochronology, Sr-Nd-Hf isotopic and geochemical data, and implications for crustal growth</i> Bor-Ming Jahn (Keynote)
0945	#3387	The deformation and exhumation of the Wyangala Granite, New South Wales Paul Lennox

FRIDAY 10 AUGUST 0830 - 1030 continued

1000	#3388	Petrogenesis of the Early Cretaceous granitoids in Qinglong, Gangdese: Chronology, Geochemical and Sr-Nd Isotopic Constrains Zhongli Liao
1015	#3389	Ages and geochemistry of granites in the Pingtan-Dongshan Metamorphic Belt, coastal South China: new constraints on late Mesozoic tectonic evolution Qian Liu

21.6 - Session 1 - Large Igneous Provinces and their impact on the lithosphere, atmosphere and biosphere 0830 - 1030 Plaza Meeting Room 9

Time		
0830	#3390	<i>Large Igneous Provinces (LIPs) as drivers for Environmental Change and Extinctions</i> Richard Ernst (Keynote)
0900	#3391	The Implications of Mantle Lithosphere Delamination for the Termination of Cambrian Pacific Margin Orogenesis: The Creation of the Source of the Tasmanian-Ferrar Jurassic Large Igneous Province? John Foden
0915	#3392	P-wave Velocity Structure and Deep Crustal Reflections of the Ontong Java Plateau Millard (Mike) Coffin
0930	#3393	The Deccan: A chronology of CFB eruption, lithospheric extension, and rifting Mike Widdowson
0945	#3394	Deriving the 3D volcanic architecture of continental flood basalt provinces Charlotte Vye (Invited)
1000	#3395	Geochemistry and geochronology of the c. 1585 Ma Benagerie Volcanic Suite, southern Australia: relationship to the Gawler Range Volcanics and implications for the petrogenesis of a Mesoproterozoic silicic large igneous province Claire Wade
1015	#3396	How do supercontinents break up? Assessing the continental Large Igneous Province (LIP) record of the break-up of Pangea. Stefan Groflin

22.6 - Session 2 - Accessory phases and trace elements in metamorphic processes 0830 - 1030 Plaza Meeting Room 7

Time		
0830	#3397	Multiple (U)HP metamorphic reactions recorded in single trace phases: Insights through Laser Ablation Split-Stream (LASS) petrochronology Andrew Kylander-Clark
0845	#3398	<i>Insights from monazite and allanite petrochronology in metasediments and veins from Central Alps</i> Emilie Janots (Keynote)
0915	#3399	Geochronology of accessory allanite and monazite in the Barrovian metamorphic sequence of the Central Alps, Switzerland Kate Boston
0930	#3400	In-situ Nd and Sr isotope measurements on accessory minerals from a prograde LP/HT sequence: Insights into isotope equilibration during metamorphism Johannes Hammerli
0945	#3401	In-situ monazite geochronology of UHT granulites from the Gruf Complex, Central Alps Andreas Möller
1000	#3402	Monazite record of fluid circulation during metamorphism: an in-situ oxygen isotope study Daniela Rubatto

FRIDAY 10 AUGUST 0830 - 1030 continued

23.2 - Session 2 - General Palaeontology

0830 - 1030

Mezzanine Room 6

Time		
0830	#3403	Late Palaeozoic biogeographic bipolarity revisited: parallel evolution, vicariance or transoceanic dispersal? Guang Shi
0845	#3404	Asynchronous responses to the end-Permian mass extinction between shallow-water and deep-water facies in South China Yang Zhang
0900	#3405	Size is everything: new insights into phytoplankton evolution and diversity from exceptionally preserved Cretaceous and Paleogene sediments from Tanzania Paul Bown
0915	#3406	Differential responses to Cenozoic climate change: Australasian fossil bat faunas and communities Suzanne J. Hand
0930	#3407	Elements of vertebrate and non-marine mollusc Cenozoic biogeography in an insular framework: the Italian area Anastassios Kotsakis
0945	#3408	Palynological studies of the Mesozoic and Cenozoic sediments from South Australia: examples of applications and the impact on mineral exploration Liliana Stoian
1000	#3409	Biostratigraphy of the Danian/Selandian transition in the northwest of Tunisia (Tejerouine) Moncef Saïd Mtimet
1015	#3410	New palaeoniscoid species and taxonomic amendments from the Early Carboniferous Waaipoort Formation (Witteberg Group) of South Africa Fiona MacEachern

24.3 - Session 2 - Understanding microbial carbonates

0830 - 1045

Mezzanine Room 8

Time		
0830	#3411	Intertidal and subtidal microbialites in Hamelin Pool, Shark Bay Lindsay Collins
0845	#3412	Seasonality of thrombolite formation at Lake Clifton, Western Australia John Warden
0900	#3413	Aragonite-gypsum microbialite formation in hypersaline lakes of the Kiritimati atoll (Kiribati, Central Pacific) Joachim Reitner (Invited)
0915	#3414	Complex formation history of 2300-year-old dolomitic stromatolite from Lagoa Salgada, Brazil Anelize Bahniuk
0930	#3415	Analysis of microbialite reefs from the Salgada Lagoon, Rio de Janeiro, Brazil * Fresia Ricardi-Branco
0945	#3416	Carbonate succession of Sabkha Brejo do Espinho from the Cabo Frio region, Rio de Janeiro, Brazil: a Holocene pre-salt system analog? Cátia Barbosa
1000	#3417	Continental carbonates reservoirs: the importance of analogues to understand presalt discoveries Aurélien Virgone
1015	#3418	Mesoproterozoic Biogenic Dolomite: Evidence from Ultrafine Microfabrics and Nanoscale Organominerals Xiaoying Shi
1030	#3419	Cretaceous Stromatolites from the Cupido Formation Elizabeth Chacon

FRIDAY 10 AUGUST 0830 - 1030 continued

26.4 - Session 2 - Rodinia to Gondwana: evolution of the southern supercontinent

0830 - 1030

Meeting Room S1

Time		
0830	#3420	Subduction on the Cambrian East Gondwanan margin David Moore
0845	#3421	Continental Rifting around a Stalled Precambrian Orogen in the Gamburtsev Province of East Antarctica Fausto Ferraccioli
0900	#3422	Neoproterozoic to Cambrian granites of northern Mozambique and Dronning Maud Land Antarctica: timing genesis and tectonic implications. Geoffrey Grantham

28.5 - Session 1 - Hazards and risks to groundwater systems

0830 - 1030

Plaza Terrace Room

Time		
0830	#3423	Hydrological effects of recent New Zealand earthquakes Simon C. Cox
0845	#3424	Variability in borehole measurement of groundwater quality in an acid sulfate formation Ohene Karikari-Yeboah
0900	#3425	Assessing coastal aquifer vulnerability to seawater intrusion using vulnerability factor analysis Baskaran Sundaram (Invited)
0915	#3426	Typological analysis of Australian coastal aquifers in the assessment of vulnerability to seawater intrusion Baskaran Sundaram
0930	#3427	Radon in Potable Water of Shillong, Meghalaya, India Devesh Walia
0945	#3428	Biogeochemistry of high arsenic groundwater systems Yanxin Wang
1000	#3429	Characteristics of the leakage pollution of Longpan Road gas station and its enlightenment in Nanjing, China Jiang Yuehua

30.3 - Session 1 - Improving the interaction between natural/physical and social sciences to increase the effectiveness of natural disaster risk reduction

0830 - 1030

Boulevard Meeting Room 2

Time		
0830	#3430	<i>The role of multidisciplinary research and collaboration for improving the resilience of communities to natural hazards</i> David Johnston (Keynote)
0900	#3431	Translating Science to Public: Lessons from Social and Natural Sciences Interactions in Tsunami Disaster Risk Reduction in Indonesia Irina Rafliana
0915	#3432	The New Zealand National Tsunami Evacuation Mapping Framework: From Modelling and Warning to Community Preparedness Graham Leonard
0930	#3433	From science to practice: bridging the gap through the Determining Volcanic Risk in Auckland (DEVORA) project Jan Lindsay
0945	#3434	Landsliding process of Baotaping slope in the reservoir area of the Three Gorges Project, Yangtze River, China Qinglu Deng

FRIDAY 10 AUGUST 0830 - 1030 continued

31.4 - Session 1 - Engineering geology in managing risk from geohazards and impacts of climate change

0830 - 1030

Plaza Meeting Room 4

Time		
0830	#3435	<i>The role of engineering geology in managing the impact of climate change on landslide hazards - the Hong Kong experience</i> Yun-Cheung Chan (Keynote)
0900	#3436	Engineering Geological mapping for landslide hazard assessments in Hong Kong Steve Parry
0915	#3437	Role of engineering geology in management of natural risks Victor Osipov
0930	#3438	Geological-geotechnical analysis of Mauá Powerplant region for aiding geodetic monitoring and instrumentation plans Isabella Figueira

32.4 - Session 1 - National Virtual Core Library (NVCL)

0830 - 1030

Plaza Meeting Room 1

Time		
0830	#3439	<i>Achievements from building the AuScope National Virtual Core Library (NVCL) in Australia</i> Jonathan Huntington (Keynote)
0900	#3440	The library of TIR reflectance spectra of reference minerals and rocks for the HyLogger systems: Introducing a new database and samples update Martin C Schodlok
0915	#3441	Interpretation of Thermal Infrared HyLogger Data: Progress and Challenges Andrew Green (Invited)
0930	#3442	Performance assessment of the new thermal infrared capability of the HyLogger-3 systems and a comparison with the TIR HyLogger Lew Whitbourn
0945	#3443	Towards the automated spatial domaining of (HyLogging) core logging spectra Mark Berman
1000	#3444	Thermal infrared HyLogger™ successfully characterising silicate mineralogy in new gold province beneath Murray Basin Alan Mauger
1015	#3445	Hyperspectral data - a tool for identification of geological chronometers Lena Hancock

37.1 - Session 1 - Expanding Earth (Sam Carey Memorial)

0830 - 1030

Plaza Meeting Room 2

Time		
0830	#3446	<i>Earth expansion: new data and interpretations</i> Giancarlo Scalera (Keynote)
0900	#3447	Growth of the triaxial planet in the ether's flow Alex Retejum
0915	#3448	The self-organisation concept - The forming of structures by complex dynamic processes Sabine Dietrich
0930	#3449	Subduction: The Extent & Duration Neal Adams

FRIDAY 10 AUGUST 0830 - 1030 continued

37.2 - Session 2 - Pursuit of a new global geodynamic paradigm

0830 - 1030

GeoExpo Hospitality Room 1

Time		
0830	#3450	<i>World Magnetic Anomaly Map and Global Tectonic Theories</i> Karsten Storetvedt (Keynote)
0900	#3451	The Iso-depth Contours of Deep Earthquakes in the Japanese Islands and Surrounding Areas Yo Akamatsu
0915	#3452	Mechanism of induced earthquakes by the Off the Pacific coast of Tohoku Earthquake in 2011 according to the Change of geothermal water level and its temperature, aftershock activity and geologic structure in Northeast Japan Takayuki Kawabe
0930	#3453	Great earthquakes are predictable: precursory signals and a new geodynamic perspective Dong Choi
0945	#3454	Natural disaster weather and earthquake forecasting with geophysical methods Bruce Leybourne

FRIDAY 10 AUGUST 1030 - 1300

1030 - 1100	BREAK
1100 - 1200	<i>Plenary Session 5:</i> <i>Digital Earth – The information explosion</i> Great Halls 1 & 2 <i>Chair: Dr Alex Malahoff (New Zealand)</i> <i>Dr Thomas Cudahy (Australia)</i> <i>Dr Kristine Asch (Germany)</i> <i>Dr Ken Gledhill (New Zealand)</i>
1200 - 1300	LUNCH

FRIDAY 10 AUGUST 1245 - 1430

8.2 - Session 2 - The science of exploration targeting *Sponsored by Newcrest Mining*

1245 - 1500

Mezzanine Room 4

Time		
1245	#3455	Geocyclones and cupola-ring families: a new concept in the field of mineral exploration Dmitriy Gurevich
1300	#3456	Human and machine inspections of geological data Eun-Jung Holden
1315	#3457	Paleovalley-related uranium: exploration criteria and case-studies from Australia and China Baohong Hou
1330	#3458	Ore tonnage vs. magma amount - calculations from intrusive nickel deposits in Finland Hannu Makkonen
1345	#3459	Managing uncertainty in exploration targeting Campbell McCuaig

FRIDAY 10 AUGUST 1245 - 1430 continued

1400	#3460	Modeling and new metal resource assessments Murari Mohan Mukherjee
1415	#3461	On the shoulders of giants: mining the geological database to target Cu Au porphyries in the Star Mountains, Papua New Guinea Lawrence Queen
1430	#3462	Using a mineral systems approach to assess potential for uranium mineralisation in greenfields regions Anthony Schofield

FRIDAY 10 AUGUST 1300 - 1500

1.1 - Session 6 - Geoparks & Geotourism

1300 - 1500

Boulevard Auditorium

Time		
1300	#3463	The Classification and Assessment of Geological Heritage Resources in Qinghai Lake National Geopark Zheng Jiang
1315	#3464	Geoconservation issues pertaining to Chinese geoparks Young Ng
1330	#3465	<i>Geotourism - Advancing Geological Appreciation through Tourism</i> Ross Dowling (Keynote)
1400	#3466	Volcanoes and Geotourism: Geologic Heritage and Visitor Safety in Volcanic National Parks and other protected Sites Patricia Erfurt-Cooper
1415	#3467	Geoparks and Geotourism in China: a Sustainable Approach to Geoheritage Conservation and Local Development Kejian Xu
1430	#3468	Unraveling the mystery of the unknown unknowns. Geotourism, geological diversity and geoheritage in Norway Morten Smelror

2.3 - Session 2 - Developing geoscience education and awareness for the benefit of society

1300 - 1500

GeoExpo Hospitality Room 2

Time		
1300	#3469	Role of women scientists in georesource development: Indian Scenario Madhumita Das
1315	#3470	Developing and supporting the next generation of women geoscientists in South Africa Sharon Locke
1330	#3471	School children: Best media for communicating geosciences knowledge in society Afia Akhtar

3.6 - Session 2 - Greenhouse world and rapid climate change during the Mesozoic [International Geoscience Program (IGCP) 555, IGCP 507 and International Continental Drilling Program (ICDP) Songliao Project]

1300 - 1500

F1 - Training Room

Time		
1300	#3472	<i>IGCP555 - Rapid Environmental/Climate Change in the Cretaceous Greenhouse World: the marine record</i> Michael Wagreich (Keynote)

FRIDAY 10 AUGUST 1300 - 1500 continued

1330	#3473	The Santonian-Campanian oceanic anoxic deposits in the Mudurnu-Goynuk and Haymana basins, NW Turkey: a possible paleoceanographic link Ismail Omer Yilmaz
1345	#3474	Clay mineralogy of the middle Mingshui Formation (late Campanian to early Maastrichtian) from the SKIn borehole in Songliao Basin, NE China: implications for provenance and climate Yuan Gao
1400	#3475	Evaluation of atmospheric carbon dioxide concentrations during the Cretaceous Sung Kyung Hong (Invited)
1415	#3476	Continental influence on carbon buried during Cretaceous OAE II: Mineral surface control of organic carbon in black shales from western Atlantic Stefan Loehr
1430	#3477	The role of plate tectonics in first order climate cycles such as the late Paleozoic icehouse and the Mesozoic greenhouse Pierre Jutras
1445	#3478	The episodic post-rift tectonic inversion of Cretaceous Songliao Basin, NE China: evidence from fission track thermochronology and geodynamic implication Ying Song
3.8 - Session 2 - Climate change and biodiversity patterns in the Mid Paleozoic [IGCP 596, IGCP 580 and SDS] 1300 - 1500 Arbour Meeting Room 1		
Time		
1300	#3479	<i>Sea level, climate, and biotic stasis and change in the Middle Devonian of eastern North America</i> Carlton Brett (Keynote)
1330	#3480	Phylogeny and Palaeobiogeography of the Beloceratidae from the Middle/Upper Frasnian of the Canning Basin (Australia) Ralph Thomas Becker
1345	#3481	Middle Devonian crisis and rugose corals in the Carnic Alps (Austria-Italy) Erika Kido
1400	#3482	New data on Middle to Upper Devonian conodont faunas from Renanué (Aragonian Pyrenees, Spain) Jau-Chyn Liao
1415	#3483	Microtomography and 3-d reconstruction of Devonian conodonts Thomas Suttner
1430	#3484	The Lochkovian Conodont biodiversity pattern and evolutionary cycle José Ignacio Valenzuela-Ríos
4.4 - Session 1 - Medical geology 1300 - 1500 Mezzanine Room 9		
Time		
1300	#3485	Environmental hazards and the human fetus Sarah Poggi
1315	#3486	Geochemistry Characteristics and Origin of Particular Matter in Urban atmospheric Particle from Beijing, China Kuang Cen
1330	#3487	Study on the effect of mineral dusts on three kinds of human body normal bacteria in vitro Fa Qin Dong
1345	#3488	Hotspots of Heavy Metals Identified by Local Moran's I and GIS in Soils of the Pearl River Delta, South China Yongzhang Zhou

FRIDAY 10 AUGUST 1300 - 1500 continued

1400	#3489	Ecological risk assessment of heavy metals in surface sediments of the intertidal zone along Qinzhou Bay-Fangcheng Port of Guangxi, China Qinghua Li
1415	#3490	Results of urine and blood analyses from residents living around the copper smelter: Tsumeb, Namibia: an example of anthropogenic contamination? Benjamin Mapani
1430	#3491	Medical Geology in Africa: A review and possible future plans Hassina Mouri
5.5 - Session 1 - Developments in Model fusion, visualisation, exploration and 3D & 4-D modelling 1300 - 1500 Plaza Auditorium		
Time		
1300	#3492	Application of 3D geological modeling and visualization software to geothermal reservoir simulation Juliet Newson
1315	#3493	Using uncertainty simulations and automated 3D geophysical forward modelling to optimise inversion workflows Mark Lindsay
1330	#3494	Towards an understanding of uncertainties and the value of information in structural geological models J. Florian Wellmann
1345	#3495	Combining uncertainty analysis and geodiversity metrics to augment model space exploration of geological possibility Mark Lindsay
1400	#3496	PRESENTATION CANCELLED
1415	#3497	A geoscience 3d search engine Desmond FitzGerald
1430	#3498	3D Kriging using potential fields surfaces. Antonio Guillen
7.4 - Session 1 - Resource modelling, estimation and visualisation for project and mine development 1300 - 1500 Boulevard Meeting Room 1		
Time		
1300	#3499	Predicting mineralised rocks in a nuggety gold mine June Hill
1315	#3500	Innovative Direct-Push drilling technology applied to the evaluation of Jamaican bauxite deposits David Kelley
1330	#3501	Going Beyond 2D Interpretations Matthew Nimmo
1345	#3502	Quantifying drillhole sample spacing for mineral resource estimation Edmund Sides
1400	#3503	Modelling oxidation profiles with Leapfrog at the Mt Dore copper-gold deposit, Queensland. Dale Sims
1415	#3504	Quality variability assessment for Chipanga Coal Seam, Moatize Deposit: a conditional simulation approach Roger Stangler
1430	#3505	Evaluation of an oilfield development project using three stochastic oil price models and Comparison Yuanqi Zhou

FRIDAY 10 AUGUST 1300 - 1500 continued

9.5 - Session 2 - Sediment and/or greenstone-hosted gold [Society of Economic Geologists] 1300 - 1515 Great Hall 4

Time		
1300	#3506	Hydrothermal alteration of Porcupine assemblage sedimentary rocks at the Hoyle Pond orogenic gold deposit, Timmins, Ontario Thomas Monecke
1315	#3507	The positive influence of research on geological modelling and exploration strategy: Plutonic Gold Mine, Western Australia Victoria Morden
1330	#3508	Hydrothermal alteration, fluid inclusion characteristics and tectonic setting of the Paleoproterozoic Saattopora orogenic Au(-Cu) deposit, Northern Finland Tero Niiranen
1345	#3509	Generations and composition of pyrite from the Mingshan Carlin-type gold deposit, northwestern Guangxi, China: implication for ore-forming fluid activities Baocheng Pang
1400	#3510	<i>The gold conveyor belt: Large-scale gold mobility in an active orogen</i> Iain Pitcairn (Keynote)
1430	#3511	Gold mineralisation and structural setting of the Twangiza deposit in the Twangiza-Namoya gold belt, South-Kivu, D.R.Congo Stéphane Sadiki Ndyanabo
1445	#3512	Origin of nodular sulfides in black shale from Lucky Bay, Western Australia, and their possible influence on gold source in the Randalls BIF-gold deposits, Western Australia Jeff Steadman
1500	#3513	Origin of S in pyrites from Western Australian Archean gold deposits Yunxing Xue

9.7 - Session 5 - Mineral deposits: episodes, accumulation of metals and related geodynamic processes in China and adjacent regions [IAGOD / IGCP-592] 1300 - 1500 Great Hall 3

Time		
1300	#3514	Sediment-hosted Cu mineralization in Iran: main metallogenic basins and mineralization periods Mehraj Aghazadeh
1315	#3515	A composite model for multi-style iron deposits in Volcanic Basins in the Middle-Lower Yangtze River Valley metallogenic belt in eastern China Feng Yuan
1330	#3516	Geology and geochemistry of the Wenquan Mo deposit in West Qinling, China: Constraints on the geodynamic setting for the newly discovered Wenquan Mo deposit Laimin Zhu

11.2 - Session 1 - Pacific rim petroleum system architecture 1300 - 1500 Mezzanine Room 3

Time		
1300	#3517	Seismic stratigraphy of the Reinga Basin, NW New Zealand: tectonic and petroleum implications Francois Bache
1315	#3518	Revised stratigraphy in the Taranaki Basin, New Zealand Lucia Roncaglia
1330	#3519	<i>Pegasus Basin: a little-deformed window into an old friend, the East Coast Basin</i> Kyle Bland (Keynote)

FRIDAY 10 AUGUST 1300 - 1500 continued

1400	#3520	The Mananda Anticline, Papua New Guinea; Two Oilfields, Four Dry Holes and Deep Potential? Scott Keenan
1415	#3521	Volcanic cycles: geological identification and its reservoir significance Weihua Bian
1430	#3522	Calcite unit formation, dimension and distribution within Daghinsky formation, late Miocene, offshore Sakhalin Island, Russia. Marina Khakhulina
13.6 - Session 1 - Sedimentation in icehouse versus greenhouse epochs 1300 - 1500 Boulevard Meeting Room 3		
Time		
1300	#3523	<i>Does Neoproterozoic deglacial stratigraphy indicate balanced or runaway feedbacks in the Earth system</i> Martin Kennedy (Keynote)
1330	#3524	On the significance of glacial deformation structures in the Neoproterozoic Chuos Formation, northern Namibia Marie Busfield
1345	#3525	<i>The "Sturtian" glaciations in the southern hemisphere: possible global interglacials on snowball Earth?</i> Daniel Le Heron (Keynote)
1415	#3526	<i>The Sedimentary Record of Climate System Dynamics of the Late Paleozoic Ice Age</i> Julie Griffin (Keynote)
1445	#3527	A high Resolution Multi-proxy Record of Obliquity forced Environmental Oscillation during the Late Paleozoic Icehouse to Greenhouse Transition, Tasmania Basin, Australia Eugene Domack
15.2 - Session 4 - Large asteroid impacts and crustal evolution: Australian impact structures 1300 - 1500 Plaza Meeting Room 8		
Time		
1300	#3528	<i>The Australian impact cratering record</i> Peter Haines (Keynote)
1330	#3529	Hydrothermal processes associated with asteroid impacts; examples from Western Australia Franco Pirajno (Invited)
1345	#3530	When a bolide hits a world class Pb/Zn deposit: New insights into the Lawn Hill Impact Structure. Jess Salisbury (Invited)
1400	#3531	The Warburton Basin, NE South Australia: geophysical anomalies and microstructural evidence of shock metamorphism I. Tonguc Uysal (Invited)
1415	#3532	Marine impact sedimentation of the Tookoonooka-Talundilly event, Lower Cretaceous, Australia Katherine Bron (Invited)
1430	#3533	Concluding remarks: Jay Melosh, Don Lowe, Jan Smit. (5 minute each)
1445	#3534	Concluding remarks: Roger Gibson, Peter Haines, Franco Pirajno, Victor Gostin (4 minute each)

FRIDAY 10 AUGUST 1300 - 1500 continued

15.3 - Session 2 - Evolution and dynamics of the Indo-Australian Plate

1300 - 1500

Boulevard Room

Time		
1300	#3535	Structure of the Australian lithosphere from surface and body wave tomography Nicholas Rawlinson
1315	#3536	Stress on a tectonic corner: the neotectonics of northwest Australia Myra Keep
1330	#3537	Neotectonics and stress in southeastern Australia over Cenozoic-to-contemporary timescales Simon Holford
1345	#3538	<i>Curved orogen and syntaxes formation during subduction and collision</i> Anne Replumaz (Keynote)
1415	#3539	Structural evolution order of the Ailaoshan metamorphic belt and its implications on the development of Southeastern Tibet Xuexiang Qi
1430	#3540	Kinematics and geodynamics of the India-Eurasia collision Sabin Zahirovic

16.4 - Session 2 - Deep earth circulation

1300 - 1500

Plaza Meeting Room 3

Time		
1300	#3541	<i>A non-chondritic silicate Earth composition: Geochemical and thermal consequences</i> Matthew Jackson (Keynote)
1330	#3542	Noble gases and carbon in Argyle diamonds, Western Australia: Evidence for recycled volatiles Masahiko Honda
1345	#3543	Crustal contamination of the upper mantle: Evidence from ophiolites Paul Robinson
1400	#3544	Diamonds in ophiolitic mantle rocks and podiform chromitites: A Tale of Deep Subduction to Oceanic Spreading Jingsui Yang (Invited)

18.5 - Session 2 - Metallogenic systems of the Proterozoic

1300 - 1515

Plaza Meeting Room 11

Time		
1300	#3545	Influence of geodynamic setting on mineralisation: a palaeogeographic perspective Bruce Eglington
1315	#3546	A model of tectonic transpression and strain partitioning for Palaeoproterozoic ductile shear zones in the Rombak tectonic window, northern Norway Tine Larsen
1330	#3547	Paleoproterozoic metallogenic systems at the Archean-Proterozoic boundary in the central part of the Fennoscandian shield Raimo Lahtinen
1345	#3548	Thackaringa cobalt deposits, sulphide formation by microbial activity in a Paleoproterozoic anoxic brine basin Ian Pringle
1400	#3549	<i>Geodynamic evolution of the Paleoproterozoic Capricorn Orogen, Australia and associated Metallogeny</i> Simon Johnson (Keynote)

FRIDAY 10 AUGUST 1300 - 1500 continued

1430	#3550	Petrogenesis and Ni-Cu-PGE sulphide prospectivity of the Giles Complex, central Australia Roland Seubert
1445	#3551	Geodynamics and metallogeny of the Indian shield Mihir Deb
1500	#3552	Occurrence of Magnetite Itabirite in Cauê Formation - Gongo Sôco Mine - Quadrilátero Ferrífero - Brazil Adriana Zapparoli

19.2 - Session 2 - Dating our recent past - analytical methods in Quaternary geochronology and paleoclimatology: Other Quaternary techniques 1300 - 1515

Mezzanine Room 1

Time		
1300	#3553	Sourcing basaltic stone artefacts from Hawai'i by U-series Yue-Xing Feng
1315	#3554	The U-U Quaternary geochronometer revisited John Hellstrom (Invited)
1330	#3555	<i>Paleo-pH Variations Reconstructed from Coral Boron Isotopes: Implications for Ocean Acidification</i> Gangjian Wei (Keynote)
1400	#3556	Links between "global" and "local" - the classical Alpine Quaternary versus global MIS-stratigraphy Markus Fiebig
1415	#3557	Luminescence dating of sediments using the non-fading MET-pIRIR signal from K-feldspar Bo Li (Invited)
1430	#3558	Detailed model for a non-destructive direct dating of fossil remains using Electron Spin Resonance Renaud Joannes-Boyau
1445	#3559	Assessing the quality, completeness, and comprehensiveness of the Holocene storm record along the North-West Coast of Western Australia Anja Scheffers
1500	#3560	Refining the Quaternary geomagnetic polarity timescale Tiffany Rivera

20.3 - Session 1 - Lunar research and exploration in the 21st century 1300 - 1500

Arbour Meeting Room 2

Time		
1300	#3561	A 4.2 Billion Year Old Impact Basin on the Moon Marc Norman
1315	#3562	<i>Lunar bulk composition, origin, and differentiation</i> G. Jeffrey Taylor (Keynote)
1345	#3563	New REE data from Apollo 14 and 17 zircons Marion Grange
1400	#3564	U-Pb systematics of glass beads from lunar soils Alexander Nemchin
1415	#3565	Comparative early history of the Moon and the Earth; zircon geochronological evidence Robert Pidgeon
1430	#3566	<i>Using the Moon to Explore Early Solar System Bombardment</i> David Kring (Keynote)

FRIDAY 10 AUGUST 1300 - 1500 continued

21.2 - Session 2 - Granite versus orogenic style

1300 - 1500

Plaza Meeting Room 6

Time		
1300	#3567	The Bundarra Supersuite: A Case Study in Deep Crustal Hot Zone Development of Extensional Orogen Granitoids Imrie Meek
1315	#3568	Twin-patterns in K-feldspars from granite pegmatites for geotectonic setting recognition Luis Sánchez-Muñoz
1330	#3569	Magmatisms and orogenic processes in the Qinling Mountains, central China Xiaoxia Wang
1345	#3570	Petrology, Geochemistry and Geochronology of the Late Variscan Granitoids (Late Permian-Early Triassic) in Western Pontides, Turkey Sabah Yilmaz Sahin

21.6 - Session 2 - Large Igneous Provinces and their impact on the lithosphere, atmosphere and biosphere

1300 - 1500

Plaza Meeting Room 9

Time		
1300	#3571	<i>Environmental consequences of aureole gases formed around voluminous sheet intrusions injected into sedimentary basins</i> Sverre Planke (Keynote)
1330	#3572	Gas release from flood basalt eruptions: understanding the potential environmental effects Stephen Self
1345	#3573	Environmental consequences of the Siberian Traps large igneous province Benjamin Black (Invited)
1400	#3574	Volcaniclastics and the onset of flood volcanism; and overview. Ingrid Ukstins Peate
1415	#3575	Synchronicity between the Kalkarindji large igneous province and the Early-Middle Cambrian extinction Fred Jourdan
1430	#3576	U-Pb geochronology of the Emeishan large igneous province and the end of the Late Paleozoic Ice Age: Connection between magmatism, climate, ocean chemistry, and mass extinction Steven Denyszyn
1445	#3577	The use of magnetic geothermometers in basin analysis: An example from the western Karoo Basin, South Africa Leonie Maré

22.2 - Session 1 - Rates of metamorphic processes

1300 - 1500

Plaza Meeting Room 10

Time		
1300	#3578	<i>Depths, temperatures and durations: geospeedometry and the rates of orogenic processes</i> Mark Caddick (Keynote)
1330	#3579	Rutile-titanite reaction rates from diffusion of Nb in rutile Alicia Cruz-Urbe
1345	#3580	Diffusion of trace elements in olivine: the effect of silica activity Irina Zhukova
1400	#3581	Lu-Hf geochronology constrains diachronous garnet growth across the Pamir Matthijs Smit

FRIDAY 10 AUGUST 1300 - 1500 continued

1415	#3582	The generation of sheath folds in viscously stratified materials: an analogue and numerical modelling approach Damiano Dell'Ertale
1430	#3583	Argon geospeedometry used to constrain how long shear zones operate and the duration of heating cycles in metamorphic tectonites Margaret (Marnie) Forster
23.2 - Session 3 - General Palaeontology 1300 - 1500 Mezzanine Room 6		
Time		
1300	#3584	Reconstructing the mouth of the first vertebrates Nicolas Goudemand
1315	#3585	Platyceratids with echinoderms and the Australian coprophagous problem. Alex Cook
1330	#3586	Significant new Australian early Paleozoic echinoderms Peter Jell
1345	#3587	Late Triassic megalodontids in Qinghai-Tibet Plateau western China Hua Zhou Yao
1400	#3588	Structural constraints on sympodial growth morphologies of azooxanthellate scleractinians of the genus <i>Dendrophyllia</i> Asuka Sentoku
1415	#3589	Underlying mechanisms of growth unique to the colonial scleractinian coral <i>Dendrophyllia cribrosa</i> : A computer modelling approach Rie Ohno
1430	#3590	Innovative attachment structures in <i>Rhizotrochus</i> (Scleractinia): Macro- to microscopic traits and evolutionary significance Yuki Tokuda
1445	#3591	The evolution of bilbies and bandicoots. Kenny Travouillon
26.1 - Session 1 - The geology of Antarctic life: history and habitats 1300 - 1515 Mezzanine Room 2		
Time		
1300	#3592	Geological controls on life on the Antarctic sea floor Philip O'Brien
1315	#3593	<i>Antarctica: a life history</i> Patrick Quilty (Keynote)
1345	#3594	First report of marine trace fossils from fluvio-deltaic-shallow marine deposits in the Lower Permian Mackellar Formation, Beardmore Glacier Area, Central Transantarctic Mountains, Antarctica: Salinity stressed aquatic conditions Stephen Hasiotis (Invited)
1400	#3595	<i>Biogeochemical palaeotemperature proxies in the Southern Ocean: a review of their potential and proven utility</i> Simon Brassell (Keynote)
1430	#3596	Continental Trace fossils of the Lower Triassic Fremouw Formation, Beardmore Glacier Area, Central Transantarctic Mountains, Antarctica: Implications for Pangean ichnodiversity and paleogeography Stephen Hasiotis
1445	#3597	Miocene palynofloras of the Sirius Group, Victoria Land, Antarctica J. Ian Raine
1500	#3598	The nature of the Cretaceous-Paleogene mass extinction in Antarctica and its relationship to global sulfur cycle perturbations James Witts

FRIDAY 10 AUGUST 1300 - 1500 continued

27.2 - Session 1 - Microbes and extreme environments and the Deep Biosphere

1300 - 1500

Mezzanine Room 8

Time		
1300	#3599	<i>Extreme environments from the bacterial perspective</i> Gordon Southam (Keynote)
1330	#3600	Microbial arsenic resistance at Wai-O-Tapu hot springs, New Zealand John Moreau
1345	#3601	Microbial communities in groundwater and sediment in high arsenic shallow aquifers of Hetao Basin, Inner Mongolia Ping Li
1400	#3602	<i>Exploring subglacial environments: integrating genomes, geochemistry and geophysics</i> Jill Mikucki (Keynote)

28.6 - Session 1 - Visualisation and modelling of groundwater systems

1300 - 1500

Plaza Terrace Room

Time		
1300	#3603	Three dimensional geological models, groundwater allocation and web-based access to models in New Zealand. Paul White
1315	#3604	Concurrent hydrogeological conceptualisation, visualisation and numerical model development in the Victorian Murray-Darling Basin Don Cherry
1330	#3605	Assessment of interaction between alluvial, volcanic and GAB aquifers using 3D visualisation and environmental tracers, Lockyer Valley, southeast Queensland, Australia Matthias Raiber
1345	#3606	Groundwater systems visualised in 4D - a scalable method for assessment and understanding Malcolm Cox
1400	#3607	The challenge of groundwater data-modeling Angelo Doglioni
1415	#3608	Characterisation and dynamic zonation of a fractured/weathered aquifer system for solute transport modelling of in-pit residue filling process Xuyan Wang
1430	#3609	Post audits of groundwater modeling in Japan Katsuhiko Fujisaki

30.3 - Session 2 - Improving the interaction between natural/physical and social sciences to increase the effectiveness of natural disaster risk reduction

1300 - 1500

Boulevard Meeting Room 2

Time		
1300	#3610	UrbiSIT, a GIS designed for geohazard evaluation in urban areas and for production of integrated models aimed at seismic microzonation Gian Paolo Cavinato
1315	#3611	<i>Palaeostudies of coastal change due to catastrophic events: Key messages for non-academic stakeholders</i> Adam Switzer (Keynote)
1345	#3612	MARINEGEOHAZARD - Implementation of a regional early-warning system for marine geohazards of risk to the western part of the Black Sea basin Gheorghe Oaie

FRIDAY 10 AUGUST 1300 - 1500 continued

31.4 - Session 2 - Engineering geology in managing risk from geohazards and impacts of climate change 1300 - 1500

Plaza Meeting Room 4

Time		
1300	#3613	<i>Quantitative Risk Assessment of Landslides in the Context of Climate Change</i> Jordi Corominas (Keynote)
1330	#3614	Mechanical modeling and seismic-deformation monitoring for landslide processes Valentina Svalova
1345	#3615	A map of local seismic hazard for Italy based on surface geology Giuseppe Di Capua
1400	#3616	Seismic response of the central archeological area of Rome, Italy Alessandro Pagliaroli
1415	#3617	Comparison of site amplification using actual thickness of sediments versus Vs30 in tectonically active region Ambrish Mahajan
1430	#3618	Stochastic modelling of burst-size distributions in geologic fracture Bjorn Skjetne
1445	#3619	Exposure of a concrete reservoir to seismically induced shear in the February 2011 Christchurch earthquake: investigations and response Ann Williams

32.4 - Session 2 - National Virtual Core Library (NVCL)

1300 - 1500

Plaza Meeting Room 1

Time		
1300	#3620	Spectral reflectance characteristics of type rocks from the Tennant Creek mineral field, Northern Territory, Australia: An AuScope National Virtual Core Library (NVCL) case study Belinda Smith
1315	#3621	Alteration scanning and host characterisation from the deposit to the regional scale in NSW. Meagan Clissold
1330	#3622	Hyperspectral reflectance (380nm to 14,500nm) characterisation of volcanic units on the Stuart Shelf, South Australia. Georgina Gordon
1345	#3623	HyLogger™: A new tool for mineralogical analysis and stratigraphic correlation Suraj Gopalakrishnan
1400	#3624	<i>Strategies for understanding the mineralogy of skarn exploration environments using VNIR/SWIR and TIR HyLogging - A Tasmanian case study</i> Andrew Green (Keynote)
1430	#3625	Rare Earth reflectance spectroscopy - Basics and Australian NVCL applications Jonathan Huntington

37.1 - Session 2 - Expanding Earth (Sam Carey Memorial)

1300 - 1500

Plaza Meeting Room 2

Time		
1300	#3626	<i>Supercontinents on the Expanding Earth</i> Stefan Cwojdzinski (Keynote)
1330	#3627	<i>Global Expansion Tectonics</i> James Maxlow (Keynote)
1400	#3628	Plus ultra impact and gravity rifted geodynamics theory: an essay on the origins of continents and oceans William Thiel

FRIDAY 10 AUGUST 1300 - 1500 continued

37.2 - Session 3 - Pursuit of a new global geodynamic paradigm

1300 - 1515

GeoExpo Hospitality Room 1

Time		
1300	#3629	<i>New global tectonic paradigm: recent new advancements</i> Dong Choi (Keynote)
1330	#3630	Radio anomalies, characteristic configurations of the Interplanetary Magnetic Field and IPDP signals preceding M6+ earthquakes Valentino Straser
1345	#3631	Variation of volcano-seismic energy of the Super-hot-plume in the South Pacific Fumio Tsunoda
1400	#3632	Vortex geodynamics: Atmospheric cyclones to geocyclones Dmitriy Gurevich
1415	#3633	<i>Sun moon and earthquakes</i> Vinayak Kolvankar (Keynote)
1445	#3634	<i>The Geoplasma Connection</i> Louis Hissink (Keynote)
1500 - 1515		BREAK

FRIDAY 10 AUGUST 1515 - 1700

8.2 - Session 3 - The science of exploration targeting *Sponsored by Newcrest Mining*

1515 - 1700

Mezzanine Room 4

Time		
1515	#3635	Iron oxide copper gold mineral system mapping in the eastern Gawler Craton, South Australia Simon Van Der Wielen
1530	#3636	<i>Essential elements of exploration success</i> M. Stephen Enders (Keynote)
1600	#3637	Updating the technology of forecasting, exploration and evaluation of ancient (buried) marginal-marine Ti-Zr placers at early stages of exploration Lyudmila Veremeeva
1615	#3638	CET exploration simulator: a training tool for mineral exploration decision making Jason Wong
1630	#3639	Knowledge-driven gold prospectivity mapping, Giyani greenstone belt, South Africa Alazar Yosef Billay

1.1 - Session 7 - Geoparks & Geotourism

1530 - 1700

Boulevard Auditorium

Time		
1515	#3640	The land of extinct volcanoes, the Sudetes and its Foreland in Poland Michal Stefaniuk
1530	#3641	The Highland Massifs of Ethiopia and their Significance in Geotourism Abera Mogessie
1545	#3642	Attempts to promote geotourism in north Finland and northwestern Russia Peter Johansson
1600	#3643	Geotourism potential of the Mokra Gora area (western Serbia) Aleksandra Maran

FRIDAY 10 AUGUST 1515 - 1700 continued

1615	#3644	GeoTreat - the Mobile Geotourism App Erika Ingvald
1630	#3645	Geotourism Potential of Secondary Non-Extractive Natural Resource of Bukit Besi Mining Region MdDesa Kadderi
4.4 - Session 2 - Medical geology 1515 - 1715 Mezzanine Room 9		
Time		
1515	#3646	Medical geology meets the Goldfields of Victoria, Australia: An intersection across time of the historical, health and planning issues in a mining landscape. Kim Dowling
1530	#3647	Artisinal mining and the impact on the environment: a case study of the Jos Plateau environment, north central Nigeria Mayen Adiuku-Brown
1545	#3648	Land Use Conflict: When disused railway land becomes an environmental park in a school yard. Haydn Swan
1600	#3649	Preliminary environmental and social baseline assessment in some of the mining territories of Russia Iosif Volfson
1615	#3650	Synergies between medical geology and environmental health risk assessment: a case study of coal seam gas water Maryam Navi
1630	#3651	Composition of coal seam gas water in Queensland: potential implications for human health? William Stearman
1645	#3652	Chemical properties of peat with balneological potential in Estonia Mall Orru
1700	#3653	Two Super Plumes of Radioactive Geopollution due to melt down of the reactor of Fukushima No.1 Nuclear Power Plant Hisashi Nirei (Invited)
5.5 - Session 2 - Developments in Model fusion, visualisation, exploration and 3D & 4-D modelling 1515 - 1730 Plaza Auditorium		
Time		
1515	#3654	System integration based on virtual globe technology for stereoscopic hazard geological maps of Three Gorges reservoir area Gang Liu
1530	#3655	<i>Overcoming the challenges of moving from 2D to 3D, have we made progress?</i> Steve Mathers (Keynote)
1600	#3656	<i>Realising 3D geological maps in New Zealand</i> Mark Rattenbury (Keynote)
1630	#3657	Experience from 3D cartography training sessions. Implication for uncertainty factors identification Gabriel Courrioux
1645	#3658	Geological surveying in the Netherlands: trends and perspectives Michiel Van Der Meulen
1700	#3659	Dynamic and implicit geology and mineralisation modelling - Newmont Boddington Gold, WA David Haddow

FRIDAY 10 AUGUST 1515 - 1700 continued

1715	#3660	Three-dimensional shallow-level subsurface geologic model based on high-condensed borehole data : an example of the Fukuoka coastal plain bounded by a strike-slip active fault, southwest Japan Katsumi Kimura
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13.6 - Session 2 - Sedimentation in icehouse versus greenhouse epochs

1515 - 1700

Boulevard Meeting Room 3

Time		
1515	#3661	Correspondence of Mesozoic eustatic sea-level change with paleoclimate proxies: evidence for glacio-eustasy? Andrew Davies
1530	#3662	Concentrating biologically formed dolomite as CO ₂ rises Merinda Nash
1545	#3663	<i>The character of continental-margin deltas in greenhouse versus icehouse epochs</i> Peter McCabe (Keynote)

15.3 - Session 3 - Evolution and dynamics of the Indo-Australian Plate

1515 - 1700

Boulevard Room

Time		
1515	#3664	Constraining paleo-latitudes of rocks from Christmas Island Rajat Taneja
1530	#3665	The tectonic evolution of the Northern Bonaparte Basin during the Neogene: The shaping of a continental platform Julien Bourget
1545	#3666	Accelerated velocity of the Australian plate from 29 until 26 Ma due to slab tearing on the northern subduction margin Benjamin Cohen
1600	#3667	Timor collision and uplift: critical stratigraphic evidence David Haig
1615	#3668	A restraining bend in a young collisional margin: Mount Mundo Perdido, East Timor Aaron Benincasa
1630	#3669	<i>Processes of Cenozoic Crustal Blocks Transfers from Australia to Sunda</i> Manuel Pubellier (Keynote)

22.2 - Session 2 - Rates of metamorphic processes

1515 - 1700

Plaza Meeting Room 10

Time		
1515	#3670	<i>Rates of high-grade metamorphism from U-Pb geochronology and their implication for tectonic settings</i> Daniela Rubatto (Keynote)
1545	#3671	A mid-crustal channel flow during the Mesoproterozoic Sveconorwegian orogeny of Baltica? Giulio Viola
1600	#3672	Orogen-parallel extension and exhumation of the Greater Himalaya in the late Oligocene and Miocene Zhiqin Xu
1615	#3673	The magmatic evolution of Goodenough Island: Implications for the timing and rates of exhumation in the Late Miocene-Pliocene (U)HP terrane, Woodark Rift, Papua New Guinea Suzanne Baldwin
1630	#3674	FORUM : Discussion, comment on all talks on "Rates of Metamorphic Processes" and consideration of fruitful avenues for future work

FRIDAY 10 AUGUST 1515 - 1700 continued

27.2 - Session 2 - Microbes and extreme environments and the Deep Biosphere

1515 - 1700

Mezzanine Room 8

Time		
1515	#3675	<i>Exploration of limits of life and unseen microbial potentials in the Deep Biosphere</i> Ken Takai (Keynote)
1545	#3676	Microbial diversity of the Zabuye Salt Lake and lithium absorption by halophiles Fanjing Kong
1600	#3677	Carbonate-hosted Zn-Pb-Fe deposit in Mesoproterozoic of North China: A possible enrichment mechanism by microbial processes Dongjie Tang
1615	#3678	Lunar biogeochemistry and possible Hadean Eon protolife Jack Green
1630	#3679	Bacterial Diversity in Athabasca Oil Sands Composite Tailings Components Lesley Warren

28.6 - Session 2 - Visualisation and modelling of groundwater systems

1515 - 1700

Plaza Terrace Room

Time		
1515	#3680	<i>Simply structured groundwater models are the most defensible modelling approach for informing aquifer management: Examples from Bengal and Nubian Aquifer Systems</i> Clifford Voss (Keynote)
1545	#3681	Preprocessing in ArcGIS for groundwater modeling with PMWIN Haili Jia
1600	#3682	Numerical analysis of groundwater flow in Chikugo-Saga plain, Japan by using GIS and MODFLOW Yi Cai
1615	#3683	Groundwater flow simulation and its application in evaluation of groundwater resources of the North China Plain, P.R.China Ling Li
1630	#3684	Evaporation-induced salt precipitation: mechanism and feedback Chenming Zhang
1715 - 1800		Closing Ceremony
1800 - 1900		Farewell Drinks

Late changes to the scientific program

Late cancellations of papers and changes to the published scientific program will be advised daily (available from each morning) on monitors at the BCEC. Delegates are advised to check the monitors for any changes that might impact on their planned daily program.

Other Major Forums: 34th International Geological Congress

F.2: International GeoSurveys Forum – Applying geoscience to address the world's major challenges

Boulevard Room, Tuesday 7 August, 1.00 – 5.15 pm

This forum, which has been developed for senior representatives from geosurveys around the world, will take the place of the ICOGS meetings held at previous congresses. Other interested delegates may attend. Convenors — Chris Pigram (Australia) and Alex Malahoff (New Zealand)

This forum will focus on how the geological surveys are responding to the major challenges currently facing them and their countries/regions. This forum will provide a good basis for genuine sharing of experience, recognising that individual geological surveys have differing mandates, functions and responsibilities, but all are increasingly required to address a growing range of issues of concern.

Because the 34th IGC is shorter than previous IGCs, it will not be possible for all geosurveys to make formal presentations in the time available. Instead, a small number of invited geosurveys, chosen from the major geographical regions of the world, have been invited to give a short presentation on key challenges and issues in their region and how they are responding. At the end of the forum, there will be a general discussion and drawing together the main messages.

It is anticipated that challenges discussed will include: mitigation of geological hazards (especially earthquakes, tsunamis, volcanic eruptions, landslides and floods), groundwater resources, coastal zones, environmental management (including waste management), underpinning future exploration, development of unconventional hydrocarbon resources (including avoidance of environmental damage to groundwater resources), custodianship and management of large geoscience datasets and their broader application to national and regional issues.

SCHEDULE

- 1.30 pm: Welcome — Dr Alex Malahoff, CEO, GNS New Zealand
- 1.35 pm: Australia – Dr Chris Pigram, CEO, Geoscience Australia
- 1.50 pm: China – Dr Zhang Hongtao, former Chief Geoscientist of the Ministry of Land and Resources and China Geological Survey
- 2.05 pm: Europe – Dr John Ludden, Director, British Geological Survey
- 2.20 pm: North America – Dr Suzette Kimball, Deputy Director, United States Geological Survey
- 2.35 pm: Latin America – Manoel Barretto Da Rocha Neto, Chairman, Geological Survey of Brazil
- 2.50 pm: Russia – Oleg Petrov, Director General, Russian Geological Research Institute
- 3.05 pm: Afternoon Tea
- 3.30 pm: Oceania – Dr Alex Malahoff, CEO, GNS New Zealand
- 3.45 pm: Africa – Gerhard Graham, Acting CEO, Council for Geoscience (South Africa)
- 4.00 pm: South Asia – Udaya de Silva, Assistant Director, Geology, Sri Lanka
- 4.15 pm: East Asia – Eikichi Tsukuda, Director, Geological Survey of Japan
- 4.30 pm: SE Asia – R Sukhyar, Head, Geological Agency Indonesia
- 4.45 pm: Discussion and wrap up – Chaired by Donna Kirkwood, Geological Survey of Canada
- 5.15 pm: Close and reception for GeoSurvey representatives.

F.3: Global Geoscience Initiative (GGI) – Developing a Geoscience Roadmap as part of the Belmont Forum

Plaza Room 1, 1-4 pm, Wednesday, August 8, 2012

This forum is open to all interested IGC delegates

Convenors - IUGS, ICSU

Organizers - Edmund Nickless, John Ludden, Pat Leahy and Jack Hess

Discussants - Provided by Young Earth Scientists (YES) Network

This will be a Town Hall style forum on developing solid-earth geosciences initiatives as part of the Belmont forum (http://www.icsu.org/1_icsuinscience/ENVI_BELMONT.html), which brings many of the major funders of environmental and related sciences behind an International Council for Science (ICSU) led initiative centre on the integration of global observation, state of art measurement and modeling of the Earth system, creation of interoperable databases and their translation to government and other public bodies.

The objective of this GGI forum, which follows others held at large geoscience meetings in the USA and Europe, is to link different national efforts in solid earth sciences planning and infrastructure development to provide joint initiatives on a global scale. To this end it will have a series of short presentations from key funders of earth sciences and discuss how best to create momentum.

SCHEDULE

- 1.00 pm: Pat Leahy — Introduction (GGI history and synopsis; goals of session)
- 1.05 pm: David Black — Belmont Forum Goals, Objectives and Priorities
- 1.20 pm: Suzette Kimball — Priorities for the Geosciences in the United States
- 1.35 pm: Chris Pigram — Priorities in geosciences for Australia
- 1.50 pm: Yao Yupeng — Geosciences in Asia — goals and priorities
- 2.05 pm: Mike Sandford — Geoscience priorities with the Social Science Community
- 2.20 pm: Edmund Nickless — Assignment of task to breakout groups
- 2.25 pm: Facilitated Breakout groups (25 minutes) — Discussants provided by Young Earth Scientists (YES) Network
- 2.50 pm: Jack Hess — Report of Breakout groups and General Discussion (30 minutes)
- 3.20 pm: John Ludden — Summary and Closing remarks

The forum will be followed by a reception from 3.30 pm – 4.00 pm for invited participants.

Proposed Question for breakout groups

What are three critical geoscience topical priorities that should be included in the GGI and Belmont Forum agenda and, given the strategy developed by the Forum, how can the social sciences be integrated effectively into the research design to ensure relevance to decision makers?



F.4 Earth Science Matters — successor to the International Year of Planet Earth (IYPE)

Plaza Room 2, 1 - 5 pm, Monday 6 August 2012

Convenors: Ed de Mulder and Wolfgang Eder

This forum is open to all interested IGC delegates

The forum will discuss the significance of the Earth Science Matters Foundation, which represents the legacy of the International Year of Planet Earth, and its priority activities. As reflected in its subtitle: bringing knowledge of the Earth to everyone, the Earth Science Matters Foundation will spread knowledge of the Earth beyond the professional Earth scientific communities to a wider audience, including politicians, decision-makers, funding organisations, students and to the public at large. That will be realised through publications, events, projects, the media and a variety of other communication tools.

The Forum will explore and review potential for concerted actions with respect to geoscience outreach activities in various fields and regions. Forum presentations and discussions will provide input and direction for the longer term strategies of the Earth Science Matters Foundation to inform the public about the crucial but generally unrecognized role Earth scientists play for society at large for sustainable development and management.

2nd World YES Congress - Early Career Earth Scientists for Society

To participate in daytime YES sessions to be held at the Brisbane Convention and Exhibition Centre (BCEC), you must register as a 34th IGC delegate and pay the appropriate registration fee. Discounted registration fees are available to YES members and student delegates. The YES evening program is free and open to all.

The YES Congress is sponsored by BHP Billiton



Sunday 5 August (Customs House, Brisbane)

10:00-12:00 CV Workshop

At this workshop YES delegates will learn tips and tools for strengthening their CV. Murray Smith, Vice President of Human Resources, Minerals Exploration at BHP will share his insights into what industry looks for in the content and structure of a CV, while Tiffany Rivera from Roskilde University, Denmark, will address how academics (and those interested in pursuing a career in academia) should organise and present their CV. Learn how to tailor your CV in order to land the perfect job! This fully interactive workshop will also provide participants with the opportunity to mock-interview with YES sponsors BHP Billiton.

12:00-15:00 YES-BHP Billiton Networking Function

YES Delegates and industry representatives are invited to this YES networking function. Come along and meet your fellow YES Network members before the IGC begins.

This event is free but attendees must be YES members and pre-register their attendance by emailing networkyes.congress2012@gmail.com before 15 July 2012. Drinks and lunch will be provided.

Monday 6 August (Brisbane Convention Centre)

17:30 YES Networking Hour, BHP Billiton Display, GeoExpo, Exhibition Halls 1 & 2, BCEC

BHP Billiton sponsored networking drinks, exclusive to YES members. YES identification will be required.

18:30-20:30 YES National Chapters, Room P 6, Plaza Level, BCEC

This session will include presentations from the YES Network National Chapters on exciting projects and their plans for 2012-2014.

Tuesday 7 August (Brisbane Convention Centre)

The YES Network Roundtable Program will commence on Tuesday 7 August. Roundtable sessions aim to bring together experts and early career geoscientists to discuss pertinent and topical issues. Roundtable sessions will run in the evenings in the main conference centre, except for Friday 10 August when they will run during the daytime program.

Roundtables will be preceded by light refreshments and delegates are welcome to join their roundtable session organisers for dinner after each session (not provided) to continue the discussions.

18:30-20:30 Roundtable 1: How can Geoscientists Best Engage with the Public and High School Pupils, Room P 6, Plaza Level, BCEC

Convenors:

Ashvin Wickramasooriya, South Eastern University of Sri Lanka and YES Sri Lanka Kabore Awudu, YES Outreach Activities Support Team

Wednesday 8 August (Brisbane Convention Centre)

17:30 YES Networking Hour, BHP Billiton display, GeoExpo, Exhibition Halls 1 and 2, BCEC

BHP Billiton sponsored networking drinks, exclusive to YES members. YES identification will be required.

18:30-20:30 Roundtable 2: Engaging with policy makers: A YES legacy, Room P 6, Plaza Level, BCEC

Convenors:

Gabriela Perlingeiro, YES Australia

David Govoni, YES Italy

Luca Micucci, YES Italy

18:30-20:30 Roundtable 3: Education and Outreach in Polar Science, Room P 7, Plaza Level, BCEC

Convenors:

Punyasloke Bhadury, YES Network

Aisling Dolan, Association of Polar Early Career Scientists (APECS).

(Joint YES Network and APECS session)

Thursday 9 August (Brisbane Convention Centre)

17:30 YES Networking Hour, BHP Billiton Booth

BHP Billiton sponsored networking drinks, exclusive to YES members. YES identification will be required.

18:30-20:30 Roundtable 4: Emerging Geoscience Themes and the Role of the YES Network, Room P 6, Plaza Level, BCEC

Convenor:

Sarah Gaines, UNESCO, Paris

18:30-20:30 Roundtable 5: Women in Geosciences, Room P 7, Plaza Level, BCEC

Convenors:

Tiffany A. Rivera, Roskilde University, Denmark

Ndivhuwo Cecilia Mukosi, Council for Geoscience, Limpopo South Africa

Joanne Venus, University of Leeds, United Kingdom

Ezzoura Errami, African Association of Women Geoscientists, Chouaib Doukkali University, Morocco

Friday 10 August (Brisbane Convention Centre)

08:30-10:30 Roundtable 6: Professional Development - International Skill Recognition, Room A 2, Arbour Level, BCEC

Convenors:

Meng Wang, Chairperson of the YES Working Group Advisory Team, China
Syed Ajijur Rahman, Chairperson of the YES Professional Development Team
Federico Cernuschi, Oregon State University, USA
Harold Hughes, Earth Sciences Department, Royal Museum for Central Africa, Belgium

13:00-15:00 Science Communication Workshop, Room P 5, Plaza Level, BCEC

Convenors:

Cecilia Mukosi, YES South Africa
Amel Barich, YES Morocco
Akwasi Osei, University of Wisconsin-Milwaukee, USA

The Science Communication Workshop will address the challenges and opportunities faced by geoscientists in taking their research beyond the laboratory. Geoscientists have some advantages: their subject is often visual, and can involve topics and situations which frequently affect people's daily lives, whether through natural disasters, transport system engineering, or discovering new species of extinct life. But there are many different types of 'public', from policy makers and government, the government and interested lay people, and all of them have different interests and concerns. The main purpose of this workshop is to look at the possible ways to address, and share scientific information with the government, policy makers, media as well as members of the public, with the approach that they will understand.

The email address for registration is networkyes.workshop@gmail.com

YES within the IGC

All YES member have the option of having their presentation listed on the YES Network website. If you'd like to advertise your IGC presentation on the YES Network website, please send your title, authors, presentation day/time, and location to networkyes.congress2012@gmail.com.

Details of the YES Network Symposium

IGC Theme 36. Regional, Thematic and Specialist Symposia

36.4 Geoscientific challenges in the 21st century: an early-career perspective [YES Network]

Convenors: Joanne VENUS eejvhv@leeds.ac.uk (UK), Gabriela PERLINGEIRO (Australia) and Michelle COOPER (Australia)

The Earth is facing significant challenges, many of which will need to be addressed by the next generation of Earth scientists. In order to meet these challenges it is imperative that the Earth scientists of the future form strong, international networks and develop relevant, cross-disciplinary skills. Effective outreach, including mentor schemes and internships, is more important than ever and required in order to support, recruit and retain the geoscientists required in the future. Faced by so many choices, early-career Earth scientists' key decision points need to be identified and discussed. Also crucial to the development of our future Earth scientists will be the recognition of international qualifications.



GeoExpo

The GeoExpo is located in Exhibition Halls 1 and 2 on the Foyer Level of the Brisbane Convention and Exhibition Centre

Hours:

Sunday 5 August	6.00pm to 8.30pm
Monday 6 August	8.00am to 6.00pm
Tuesday 7 August	8.00am to 6.00pm
Wednesday 8 August	8.00am to 6.00pm
Thursday 9 August	8.00am to 6.00pm
Friday 10 August	8.00am to 2.00pm

The Welcome Reception will be held in the GeoExpo from 6.00pm on Sunday, 5 August

Morning and Afternoon Refreshments and Lunch will be served on Monday 6 to Thursday 9 August in the GeoExpo.

On Friday 10 August, Morning Refreshments and Lunch will be served in the GeoExpo and Afternoon Refreshments will be served on the Mezzanine Level.

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