



ansto

*water
conservation
contamination
& treatment*

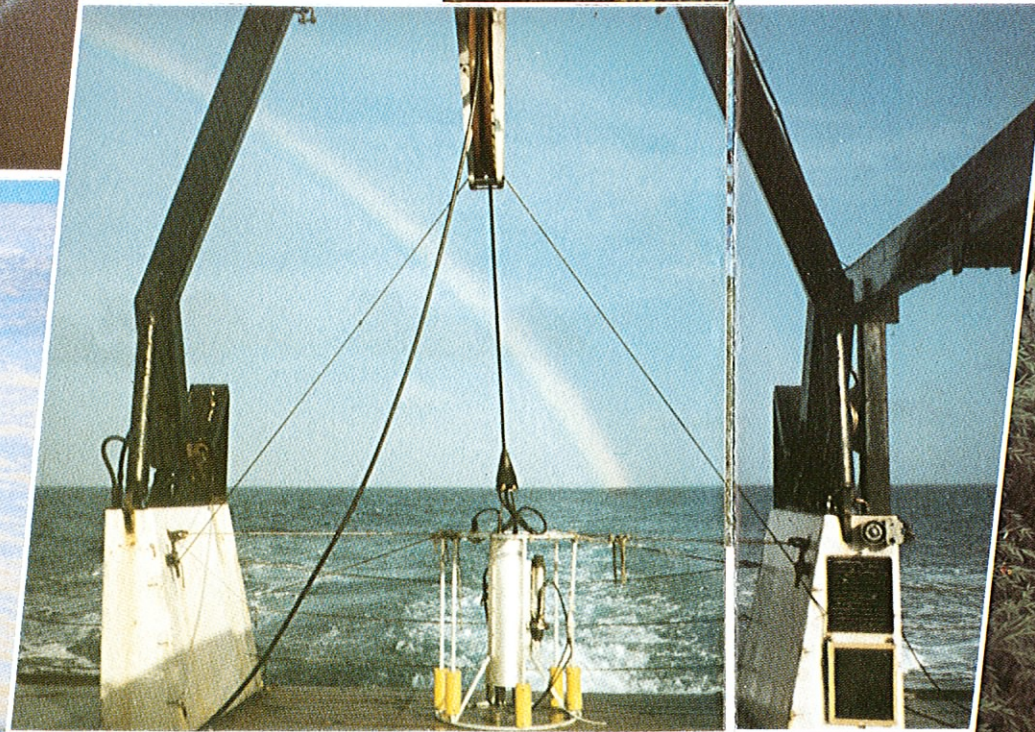
CONTAMINATION (Quality)

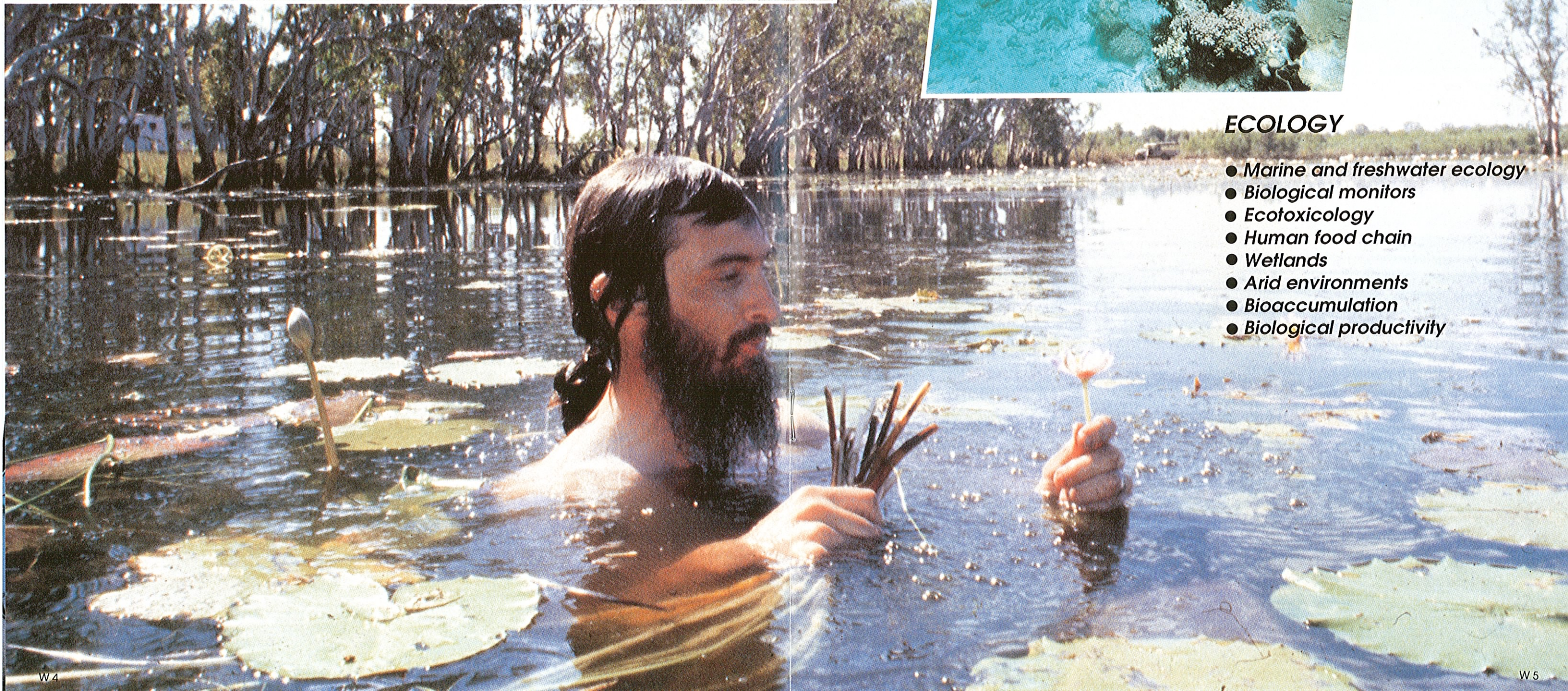
- Ground, surface, estuarine and coastal waters
- Ecotoxicology
 - Heavy metals, organics
- Chemical speciation
- Aqueous processes
- Bioaccumulation
 - Heavy metals, radionuclides
- Monitoring
- Chemical, radiochemical analysis
- Sediment interactions
 - Partical characterisation
- Pollutant degradation
 - Pathways, rates, role of light
- Contaminant transport processes
 - Speciation, hydrogeochemistry, modelling



CONSERVATION (Resource)

- Groundwater
- Isotope hydrology
- Release standards
- Point source pollution
- Diffuse source pollution
- Contaminant hydrology
- Regeneration





ECOLOGY

- *Marine and freshwater ecology*
- *Biological monitors*
- *Ecotoxicology*
- *Human food chain*
- *Wetlands*
- *Arid environments*
- *Bioaccumulation*
- *Biological productivity*

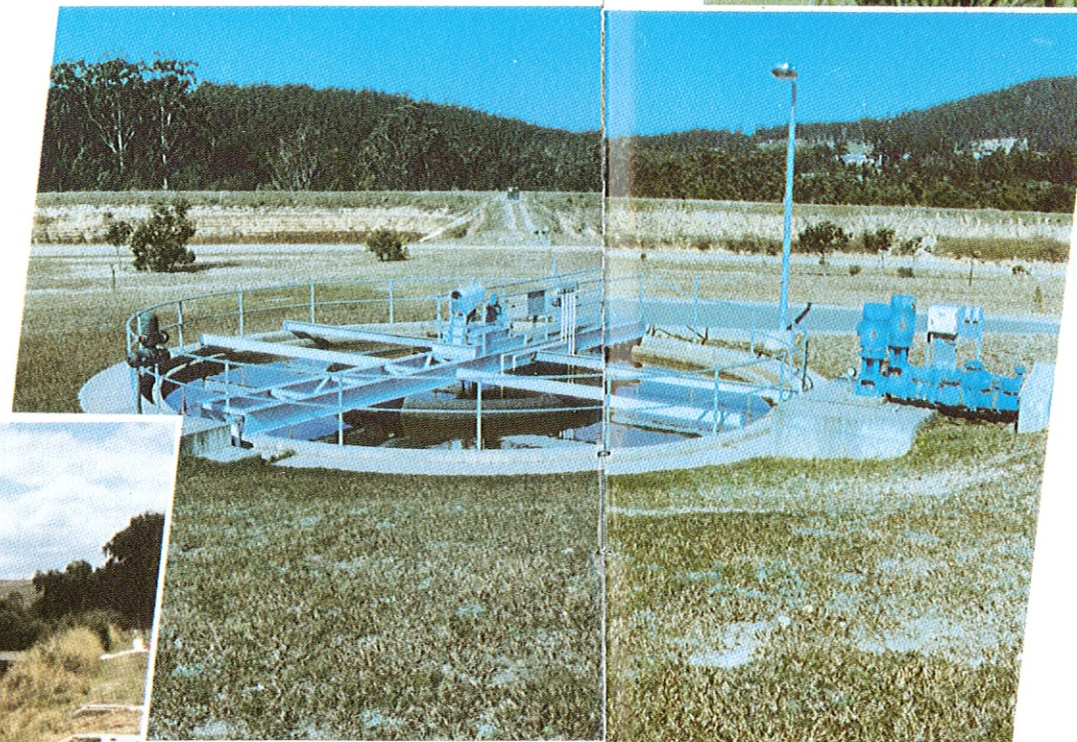
CLIMATOLOGY

- Global transport - Radon
- Water balance
- Isotope hydrology
- Greenhouse effect



TREATMENT

- Urban water supply
Fe/Mn removal
- Domestic wastewater
sewage treatment
- Industrial wastewater
- Fundamental processes
Oxidation,
Coagulation/flocculation,
Filtration



Ansto

PROGRAMS

ANSTO is one of Australia's largest contract research and development centres. Its clients include Government departments, international organisations and the private sector. ANSTO, through its collaborative research and development and joint ventures with major Australian companies, developed pilot plants for industrial and environmental processes, developed models for determining acid and heavy metal pollution, assessed industrial plant (especially for hazards), and provided specialist equipment design and computer modelling codes for environmental base line surveys.

ANSTO's extensive research and development into environmental science is complemented by the multidisciplinary staff and facilities available at Lucas Heights.

in

- ADVANCED MATERIALS
- APPLICATIONS OF NUCLEAR PHYSICS
- AUSTRALIAN RADIOISOTOPES
- BIOMEDICINE AND HEALTH
- COMPUTING
- ENGINEERING
- ISOTOPE TECHNOLOGY
- NUCLEAR TECHNOLOGY
- OCCUPATIONAL HEALTH AND SAFETY
- QUALITY TECHNOLOGY
- TRAINING



AUSTRALIAN NUCLEAR SCIENCE AND TECHNOLOGY ORGANISATION

Chairman: Professor R E Collins
Deputy Chairman: Mr Russel S Fynmore
Executive Director: Dr David J Cook

General Manager, Scientific: Dr D Davy
General Manager, Corporate: Mr D Wilson
A/General Manager, Commercial: Mr P Nixon
Program Director Environmental Science: Dr J Evans

ANSTO, Lucas Heights Research Laboratories
New Illawarra Rd. Lucas Heights NSW 2234 Australia
PMB 1 Menai NSW 2234
Telephone: (02) 543 3111
Telex: AA24562
Telegram: ANSTO Sydney
Facsimile: (02) 543 5097