

## **WAS THE FUNDING STRATEGY FOR GEMOC CONTINUATION (AFTER COMMONWEALTH CENTRE FUNDING CEASED) SUCCESSFUL?**

GEMOC's business plan has proved to be a successful blueprint, resulting in viable funding to continue and evolve GEMOC's activities beyond the Commonwealth funding period that ended in 2001.

### **Key elements of funding continuation include:**

- Macquarie University Centre Administration support (\$120,000 in 2004)
- Macquarie University Postgraduate Scholarships for Australian and international students
- ARC Program Grant 2002-2006 for basic research component and other ARC Discovery Grants to GEMOC researchers (see *Appendix 5*)
- DEST Systemic Infrastructure Initiative Grant (\$5.125 million) for 2002-2004
- Award of two Federation Fellowships (Professors Simon Turner and Bernard Wood)
- Industry funding has increased through substantial collaborative ventures and value-added consulting
- Commercialisation of GLITTER software through AccessMQ
- Independent Research Fellowships to support Postdoctoral Fellows
- LIEF successes for infrastructure with co-investment by industry and other universities
- Success in Macquarie University competitive funding schemes for research, postgraduate studies, and teaching development for undergraduate studies
- 3 new academic staff members (Drs Kelsie Dadd, Simon Jackson and Nathan Daczko) appointed to GEMOC in 1995, 1996 and 2003 have continuing appointments
- Postgraduate funding strategy exceeded goals
- Strategy for equipment and analytical funding exceeded goals

Macquarie University support has been supportive in all areas including cash, in-kind and space guarantees, and in policy support. Macquarie's Research Strategic Plan recognises GEMOC's research programs as Areas of Excellence (lithosphere and planetary evolution and metallogeny; isotopic and global geochemistry; and paleomagnetism, geodynamics and geophysical modelling) and GEMOC as a Centre of Excellence. A new initiative in 2006 by the new Vice-Chancellor has recognised GEMOC as one of five CORES (Concentrations Of Research Excellence) and strategies are being planned for significant support and expansion.

### **Strategy for ongoing Geochemical Analysis Unit funding**

GEMOC's outstanding analytical facilities are vital to our innovative research programs and to attracting research and industry income. This technology concentration also represents a high-budget item in terms of maintenance, running costs, replacement and especially for new purchases to maintain frontline developments. Funding strategies in place include:

- User-pays system for running, maintenance and development costs
- University annual contributions through competitive schemes and capital equipment allocations

## GEMOC Funding

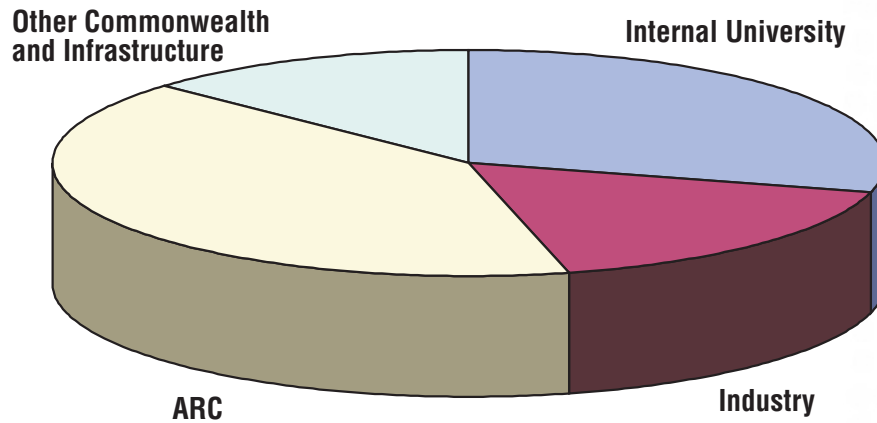
- Annual contribution from the Department of Earth and Planetary Sciences
- Macquarie University's guarantee of a strategic plan to ensure the integrity, maintenance and appropriate staffing of the Geochemical Analysis Unit
- Collaborative project building with industry partners
- Delivery of new exploration tools to industry through novel analytical methodologies
- Research and Development ventures with manufacturers leading to equipment replacement
- Applications to funding schemes for matching funds for new purchases
- Provision of services to external clients including industry
- Industry capital investment in return for access equity, negotiated intellectual property and collaborative rates

### GEMOC INCOME 2005

This is a summary of 2005 income. A full audited statement of detailed expenditure and income is prepared by Macquarie University. *No in-kind support is included here.*

	\$K
<b>ARC</b>	
<i>Discovery (including Fellowships), Linkage (Project and International), Federation Fellowships</i>	1602.0
<b>OTHER COMMONWEALTH</b>	
<i>Postgraduate awards</i>	18.8
<b>ARC LIEF</b>	495.0
<b>INDUSTRY</b>	
Collaborative Research grants (MUECRG industry components and direct industry)	281.0
Collaborative and commercial (GLITTER) through MRL	383.0
<b>INTERNAL UNIVERSITY</b>	
GAU maintenance (Department)	30.0
<b>Internal competitive schemes</b>	
Macquarie Fellowships	72.7
Matching to ARC schemes	477.2
Research grants	178.8
Postgraduate awards	272.5
Postgraduate research grants	8.0
Infrastructure (RIBG)	113.1
Capital Equipment	25.0
<b>TOTAL</b>	<b>3957.1</b>

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INCOME SOURCES  
2005



## BENEFITS TO AUSTRALIA

- Scientific innovation relevant to National Priority Areas
  - Research Priority 1: An Environmentally Sustainable Australia (Goal 1: Water – a Critical Resource and Goal 3: Developing Deep Earth Resources) and*
  - Research Priority 3: Frontier Technologies for Building and Transforming Australian Industries (Goal 1: Breakthrough Sciences and Goal 2: Frontier Technologies)*
- Enhanced international links
- Excellence in training of our future generation of geoscientists
- Enhanced industry links nationally and internationally
- Improved exploration tools and strategies for Australian mineral exploration companies both on- and off-shore
- Technological innovation (scientific advances, intellectual property, commercialisation, value-added consulting services)