

FEDERATION FELLOWS

SUMMARY OF FEDERATION FELLOWS ANNOUNCED IN JUNE 2005

Australian Nuclear Science and Technology Organisation

- Professor Jeremy Smith
Project: *Neutron scattering in biology*

La Trobe University

- Professor David Vaux
Project: *Molecular control of apoptosis and protein homeostasis*

Macquarie University

- Dr Larry Marshall
Project: *Optical semiconductors for next-generation lasers, optical processors and integrated optical chips*

Monash University

- Professor Alan Bond
Project: *Integration of electrochemistry and green chemistry: A roadmap for scientific innovation*
- Professor John Bowman
Project: *Role of an ancient genetic program in the elaboration of plant architecture*
- Professor Barry Muddle
Project: *Design in nanostructured materials – Formation and stability of nanostructure in light alloys and light metal hybrids*

Queensland University of Technology

- Professor John Hartley
Project: *Uses of multimedia: Citizen consumers, creative participation and innovation in Australian digital content*

The Australian National University

- Professor Geremie Barme
Project: *Beijing: China's heritage and the city as spectacle*
- Professor Hilary Charlesworth
Project: *Building democracy and justice after conflict*
- Professor Brian Schmidt
Project: *Understanding the evolution of the universe*

The University of Melbourne

- Professor Sheila Fitzpatrick
Project: *Russia (The Soviet Union) and Australia in the 20th and 21st centuries*
- Associate Professor Paul Mulvaney
Project: *Energy conversion and signal transduction in nanomechanical systems*

The University of New South Wales

- Professor Tom Davis
Project: *Constructing the building blocks for future nanomaterial design: Self-assembly and information storage in synthetic macromolecules*
- Associate Professor Matthew England
Project: *Genesis of Australian climate extremes in the southern hemisphere extra-tropical ocean-atmosphere*
- Professor John Hodges
Project: *Human long-term memory and social cognition: An integrated cognitive neuroscience approach*

The University of Queensland

- Associate Professor Bostjan Kobe
Project: *New approaches to functional and structural genomics*
- Professor John Mattick
Project: *The genomic programming of complex organisms*

The University of Sydney

- Professor Bryan Gaensler
Project: *The origin and evolution of cosmic magnetism*
- Dr Cameron Kepert
Project: *Advanced molecular nanomaterials*
- Professor Philip Maini
Project: *Multiscale modelling: Applications to the biomedical sciences*
- Dr Andrew Parker
Project: *The diversity and assembly of optics in nature*
- Professor Richard Shine
Project: *Ecology and evolution in dynamic systems: A new approach to conserving Australian biodiversity*

The University of Technology, Sydney

- Professor Michael Keane
Project: *Understanding and modelling individual choices in applied economics*

The University of Western Australia

- Professor Mark Randolph
Project: *Geotechnical engineering solutions for deep-water oil and gas developments*

ARC CENTRES OF EXCELLENCE

SUMMARY OF ARC CENTRES OF EXCELLENCE ANNOUNCED IN JUNE 2005

James Cook University

- ARC Centre of Excellence in Innovative Science for Sustainable Management of Coral Reef Biodiversity
Funding: \$12 million (2005-2010)

Interim Director: Professor Terry Hughes

Monash University

- ARC Centre of Excellence in Design in Light Metals
Funding: \$14.5 million (2005-2010)

Interim Director: Professor Barry Muddle

- ARC Centre of Excellence in Structural and Functional Microbial Genomics

Funding: \$10 million (2005-2010)

Interim Director: Professor Ben Adler

Queensland University of Technology

- ARC Centre of Excellence in Cultural and Media Industries

Funding: \$7 million (2005-2010)

Interim Director: Professor Stuart Cunningham

The Australian National University

- ARC Centre of Excellence in Antimatter-Matter Studies

Funding: \$7 million (2005-2010)

Interim Director: Professor Stephen Buckman

- ARC Centre of Excellence in Vision Science

Funding: \$11 million (2005-2010)

Interim Director: Professor Trevor Lamb

The University of Melbourne

- ARC Centre of Excellence in Coherent X-Ray Science

Funding: \$9 million (2005-2010)

Interim Director: Professor Keith Nugent

- ARC Centre of Excellence for Free Radical Chemistry and Biotechnology

Funding: \$12 million (2005-2010)

Interim Director: Professor Carl Schiesser

The University of Western Australia

- ARC Centre of Excellence in Plant Energy Biology

Funding: \$12.5 million (2005-2010)

Interim Director: Associate Professor James Whelan

University of Tasmania

- ARC Centre of Excellence in Ore Deposits

Funding: \$15 million (2005-2010)

Interim Director: Professor Ross Large

University of Wollongong

- ARC Centre of Excellence for Electromaterials Science

Funding: \$12 million (2005-2010)

Interim Director: Professor Gordon Wallace

For more information visit www.arc.gov.au

RESEARCH in the national interest - enabling the future

Professor Gordon Wallace (left), Interim Director of the ARC Centre of Excellence for Electromaterials Science at the University of Wollongong, Professor Maria Forsyth (centre) Monash University, and Professor Graeme Clark (right), founder of the Bionic Ear Institute, are congratulated by Dr Brendan Nelson at the 2005 ARC Federation Fellows and Centres of Excellence announcement.

