

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2010 by State and Organisation

New South Wales

The University of New South Wales

LP100200690 Dr Lisa V Alexander, Prof David J Karoly, Dr Russell Vose, Dr Francis Zwiers

Approved Project Title Transforming our research capacity in the analysis of climate extremes

2010		\$47,500.00
2011		\$97,500.00
2012		\$100,000.00
2013		\$50,000.00
2014		
2015		
Primary FoR	0401	ATMOSPHERIC SCIENCES

Partner/Collaborating Organisation(s)

Canadian Climate Centre, Department of Climate Change, National Oceanographic and Atmospheric Agency

Administering Organisation The University of New South Wales

Project Summary

Given their devastating impacts, there is now a critical urgency to understand what drives extreme climate events and make timely predictions of their future risk. The analysis of comprehensive extremes datasets, comprising global observations and output of multi-model simulations, will greatly improve our ability to answer fundamental questions about the nature and variability of extreme climatic events. This project also ensures the government's continued commitment to managing the risks associated with extreme events as an urgent national priority. It represents a landmark opportunity for Australian leadership of an international collaboration between some of the world's leading climate scientists and climate data and modelling centres.

LP100200486 Prof Michael Archer, Dr Suzanne Hand

Approved Project Title Uncovering ancient landscapes with emerging technologies: integrating complex geospatial and fossil data to explore late Cenozoic environmental change

2010		\$35,000.00
2011		\$70,000.00
2012		\$75,000.00
2013		\$40,000.00
2014		
2015		
Primary FoR	0403	GEOLOGY

Partner/Collaborating Organisation(s)

QLD Department of Environment and Resource Management, Scientific & Information Technology Consulting Pty Ltd

Administering Organisation The University of New South Wales

Project Summary

This project aims to use emerging technologies to unravel relationships between prehistoric climate changes and environmental impacts in northern Australia. Given current uncertainty about impacts of contemporary climate change on our biota, it is important to document the outcomes of past climatic changes and, in particular, the globally critical period between 15 and five million years ago that shaped modern Australian environments. Fossil-rich deposits in the Riversleigh World Heritage Area of northern Queensland span this period. Interpretation of their fine-grained record of impact and change will improve our ability to predict and hence better manage impacts of future climate change on our unique national natural heritage.

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LP100200096	A/Prof Eileen Baldry, Dr Leanne M Dowse, A/Prof Julian N Trollor, Prof Patrick Dodson, Dr Devon Indig	
Approved Project Title	Indigenous Australians with mental health disorders and cognitive disabilities in the criminal justice system	
2010		\$64,500.00
2011		\$129,500.00
2012		\$127,500.00
2013		\$62,500.00
2014		
2015		
Primary FoR	1699	OTHER STUDIES IN HUMAN SOCIETY

APAI 1

Partner/Collaborating Organisation(s)

Department of Ageing, Disability and Home Care, Justice Health, Legal Aid NSW, NSW Department of Housing

Administering Organisation The University of New South Wales

Project Summary

This project addresses the high over-representations of Indigenous persons with mental health and cognitive disabilities in Australian criminal justice systems. It will develop new understandings of the interactions amongst criminal justice, social, health, disability and other human services for these persons. Using an Indigenous methodology in this study will result in new information and understandings on Indigenous persons' experiences and perspectives. These will allow, for the first time, a critical analysis of system interactions and responses to complex needs for these persons. Outcomes will inform Indigenous theory and will be vital for developing new policy and practice to assist in protecting and promoting Indigenous wellbeing.

LP100200586	Prof Jeffrey Braithwaite, Prof Johanna I Westbrook	
Approved Project Title	Strengthening organisational performance through accreditation research: the ACCREDIT project	
2010		\$150,000.00
2011		\$300,000.00
2012		\$300,000.00
2013		\$405,000.00
2014		\$275,000.00
2015		\$20,000.00
Primary FoR	1117	PUBLIC HEALTH AND HEALTH SERVICES

APAI 2

Partner/Collaborating Organisation(s)

Aged Care and Standards Accreditation Agency , Australian Commission on Safety and Quality in Health Care , Australian Council on Healthcare Standards , Australian General Practice Accreditation Limited , The Clinical Excellence Commission

Administering Organisation The University of New South Wales

Project Summary

This project will address multiple national benefits, including the National Research Priority, promoting and maintaining good health. Our knowledge of how accreditation, standards-setting and surveying contributes to organisational performance and quality of care will be considerably improved. Better health policy, improved services to patients, enhanced consumer involvement in their own care and research results for use by national bodies, other industries and international partners are some of the key benefits this project aims research achieve. The community is vitally interested in the costs of health services, the value for money they produce and the standards of care provided.

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LP100200297	Prof Deborah J Brennan, Dr Zoe H Morrison, Ms Anne C Hampshire, Prof Fiona Williams, Dr Jennifer Skattebol	
Approved Project Title	Families at the centre: negotiating Australia's mixed market in early education and care	
2010		\$48,887.00
2011		\$125,609.00
2012		\$130,812.00
2013		\$54,090.00
2014		
2015		
Primary FoR	1605	POLICY AND ADMINISTRATION

APAI 1

Partner/Collaborating Organisation(s)

Brotherhood of St Laurence, Early Childhood Australia inc, Lady Gowrie Child Centre Inc Adelaide, Lady Gowrie Child Centre Sydney, Mission Australia, The Gowrie (Qld) Inc, University of Leeds

Administering Organisation The University of New South Wales

Project Summary

Despite a surge of policy reforms and Australian government investment in early childhood education and care (ECEC), little is known in Australia about how local ECEC markets function and how low-income families make decisions about the use or non-use of child care services. This project will provide evidence for policy-making and service provision that aims to encourage child care use by low-income families. The direct involvement of child care providers in the research will strengthen its relevance and impact. This research will place Australia at the forefront of international research on local child care markets, and resulting improvements in ECEC policy and services will generate substantial economic and social benefits.

LP100200165	Dr Georgina M Chambers, A/Prof Elizabeth A Sullivan, A/Prof Peter J Illingworth	
Approved Project Title	Economic impact and policy implications of assisted reproductive technologies in Australia	
2010		\$52,500.00
2011		\$100,000.00
2012		\$105,000.00
2013		\$57,500.00
2014		
2015		
Primary FoR	1402	APPLIED ECONOMICS

APDI Dr Georgina M Chambers

Partner/Collaborating Organisation(s)

IVFAustralia Pty Ltd, Melbourne IVF Pty Ltd, Queensland Fertility Group

Administering Organisation The University of New South Wales

Project Summary

Assisted reproductive technology (ART) is now a large scale economic activity in Australia, provided almost exclusively by private clinics. The outcome of ART programs, involving the birth of one in 30 children, has a profound effect on the health of the nation. Policy and funding frameworks influence how ART is practiced and the subsequent health outcomes of ART children, yet there is a lack of evidence to guide government and providers about effective, equitable and safe approaches to funding ART. This research will address that need, thereby fostering a healthy start to life and preventative healthcare; supporting the National Research Priority, promoting and maintaining good health, for ART children, their families and the community.

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LP100200455 Prof Christopher Cunneen, Ms Melanie Schwartz, Prof Larissa Y Behrendt
Approved Project Title **National research study of the civil and family law needs of Indigenous people**

2010	\$74,937.50
2011	\$149,937.50
2012	\$158,141.50
2013	\$83,141.50
2014	
2015	
Primary FoR	1801 LAW

APAI 2

Partner/Collaborating Organisation(s)

Aboriginal and Torres Strait Islander Legal Service (QLD) Limited, Aboriginal Legal Service of Western Australia Inc., Central Australian Aboriginal Family Law Unit, Legal Aid Commission of Western Australia, Legal Aid Queensland, North Australian Aboriginal Family Violence Legal Service, North Australian Aboriginal Justice Agency Limited, Northern Territory Legal Aid Commission, Victoria Legal Aid, Victorian Aboriginal Legal Service Co-operative Limited

Administering Organisation The University of New South Wales

Project Summary

This research will benefit Indigenous communities by improving access and equity in legal services. By identifying and addressing the civil and family law needs of Indigenous people, the research will make a key contribution to improving legal and social justice outcomes. Partner organisations in the research will actively implement the findings to the national benefit, creating more appropriate, accessible and better targeted legal services aimed at meeting identified needs. The research will make an important contribution to the Commonwealth's welfare reform and participation agendas, particularly its Access to Justice Framework as better access to legal services can play an important role in alleviating economic and social disadvantage.

LP100200150 Prof Mark R Dadds, Dr David J Hawes, A/Prof John L Brennan
Approved Project Title **Development of a comprehensive model and programmed intervention for emotion processing deficits in childhood-onset mental health problems**

2010	\$61,612.50
2011	\$123,476.50
2012	\$124,173.50
2013	\$62,309.50
2014	
2015	
Primary FoR	1117 PUBLIC HEALTH AND HEALTH SERVICES

Partner/Collaborating Organisation(s)

Royal Far West

Administering Organisation The University of New South Wales

Project Summary

This research is in the National Research Priority, promoting and maintaining good health. Mental health problems cost Australia millions of dollars every year as well as creating immeasurable social adversity for individuals and families. The proposed research represents a significant step towards reducing these costs and improving the effectiveness of early intervention and prevention. The research will lead to improvements in methods for early detection of child psychopathology with potential for implementation in both community health and educational services nation-wide. The research partnership will build Australia's capacity for innovative research in the development, early intervention and treatment of mental health problems.

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LP100200362 Dr Thomas F Denson, Dr Lisa Zadro, A/Prof Michelle L Moulds
Approved Project Title **Psychological factors that lead to risky, aggressive, and impaired driving**

2010		\$60,000.00
2011		\$105,000.00
2012		\$90,000.00
2013		\$45,000.00
2014		
2015		
Primary FoR	1701	PSYCHOLOGY

Partner/Collaborating Organisation(s)

Australian Associated Motor Insurers Ltd

Administering Organisation The University of New South Wales

Project Summary

Road accidents are a preventable cause of serious physical injury, psychological distress (e.g., PTSD) and in many cases, death. The annual financial cost of road accidents in Australia is estimated at over \$18 billion. This project will help to reduce the economic and social costs of road accidents by identifying when risky, aggressive, and impaired driving will occur and who will be most likely to commit these behaviours. The groundbreaking nature of this proposed project will ensure that Australia is at the forefront of driving safety research, thereby contributing to Australia's international profile for conducting influential and cutting-edge experimental research.

LP100200021 A/Prof Katharina Gaus
Approved Project Title **Life at the nanometre scale: imaging immunological synapses with a novel super-resolution fluorescence microscope**

2010		\$72,500.00
2011		\$142,500.00
2012		\$140,000.00
2013		\$70,000.00
2014		
2015		
Primary FoR	0601	BIOCHEMISTRY AND CELL BIOLOGY

Partner/Collaborating Organisation(s)

Carl Zeiss MicroImaging

Administering Organisation The University of New South Wales

Project Summary

This project aims to image individual proteins in activated white blood cells in order to understand how lymphocytes participate in an immune response. The problem is that current imaging modalities either lack resolution or are unsuitable for live cell and three-dimensional (3D) imaging. With the project's industry partner, Carl Zeiss MicroImaging, the project will build and apply a novel microscope that is capable of visualising single proteins in 3D and live cells. This technology will provide insights into signalling and lymphocyte function on a true molecular scale.

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LP100200593 Prof John J Gooding, Dr Sridhar Iyengar
Approved Project Title **New strategies for characterising and monitoring protein-surface interactions: application to a biosensor for diabetic's blood glucose regime effectiveness**

2010	\$57,500.00
2011	\$110,000.00
2012	\$115,000.00
2013	\$62,500.00
2014	
2015	

Primary FoR 0301 ANALYTICAL CHEMISTRY

APAI 1

Partner/Collaborating Organisation(s)

AgaMatrix, Inc.

Administering Organisation The University of New South Wales

Project Summary

This project aims to develop an antibody based biosensor for the detection of glycosylated haemoglobin (HbA1c) which serves as a marker of the effectiveness of a diabetic's blood glucose treatment regime. Monitoring HbA1c is important as many of the long term health effects of diabetes are a consequence of high blood glucose levels. The simple to use technology will be a general detection strategy for proteins and hence will be applicable for the detection of a wide range of diseases and biomarkers. The research will also benefit Australia by training the new generation of scientists for Australia's biomedical diagnostics industry.

LP100200442 Prof Ross R Harley, A/Prof Anna Munster, Prof Sean R Cubitt, Dr Michele F Barker, A/Prof Paul Thomas, Prof Darren J Tofts, Prof Oliver Grau

Approved Project Title **Reconsidering Australian media art history in an international context**

2010	\$45,000.00
2011	\$75,000.00
2012	\$65,000.00
2013	\$35,000.00
2014	
2015	

Primary FoR 1902 FILM, TELEVISION AND DIGITAL MEDIA

Partner/Collaborating Organisation(s)

Australian Network for Art and Technology, Donau Universität Krems

Administering Organisation The University of New South Wales

Project Summary

This project will establish an unprecedented platform for the promotion and understanding of historic media art works from Australia in a burgeoning international media art scene. It will place Australian media art history within an international context by connecting with established networks of scholars and web resources worldwide. The research outcome, a foundational online resource, will provide future artists and curators with a cohesive overview of Australian media art's recent milestones and developments, crucial to making significantly innovative new works. The project will not only follow international best practice but lead in the development of new interoperability standards for rich-media web resources.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2010 by State and Organisation

LP100200574 Dr Julie Hatfield, Prof E J Kehoe, Prof Ann M Williamson, Dr Raymond F Job
Approved Project Title **Preventing injuries in crashes involving young drivers: development and evaluation of impulse control training**

2010	\$45,000.00
2011	\$90,000.00
2012	\$82,500.00
2013	\$37,500.00
2014	
2015	

Primary FoR 1701 PSYCHOLOGY

Partner/Collaborating Organisation(s)

NSW Centre for Road Safety, Youthsafe

Administering Organisation The University of New South Wales

Project Summary

Road crashes are a leading cause of death and injury for young Australians, at tremendous economic, social and personal cost. This project has the potential to reduce this problem by developing the first driver training to fast-track development of mental processes that contribute to the most serious young driver crashes. Further, the industry partners are committed to translating the research outcomes into policy and practice. This cutting-edge research will place Australia at the forefront of driver training research, and enhance road safety research capacity.

LP100200259 Dr Rita K Henderson, Prof Andy Baker, Dr John Bridgeman
Approved Project Title **Monitoring organic matter in drinking water systems using fluorescence spectroscopy: improved early warning, process optimisation and water quality**

2010	\$26,000.00
2011	\$51,000.00
2012	\$50,000.00
2013	\$25,000.00
2014	
2015	

Primary FoR 0502 ENVIRONMENTAL SCIENCE AND MANAGEMENT

APAI 1

Partner/Collaborating Organisation(s)

Hunter Water Corporation, Melbourne Water Corporation, Queensland Bulk Water Authority, Water Quality Research Australia Ltd

Administering Organisation The University of New South Wales

Project Summary

Climate change is contributing to elevated organic matter (OM) concentrations in drinking water supplies. If insufficiently treated, OM can lead to unacceptable concentrations of disinfection by-products, considered to be potential carcinogens, as well as taste and odour problems and bacterial re-growth in the distribution system. Currently available on-line monitoring techniques give limited information regarding the nature of OM; however, fluorescence spectroscopy has shown promise in this regard. Hence, this project aims to provide an on-line monitoring protocol utilising fluorescence to aid utilities in their provision of safe drinking water, thus addressing the National Research Priority goal water - a critical resource.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2010 by State and Organisation

LP100200801	Prof Anthony D Kelleher, Dr Daniel Christ, Prof Peter H Karuso, Dr Tri G Phan, Mr Peter M Delaney, Dr Lutz Jermutus	
Approved Project Title	In vivo molecular imaging using engineered affinity reagents and fluorescent laser scanning confocal endomicroscopy	
2010		\$47,500.00
2011		\$101,000.00
2012		\$114,500.00
2013		\$61,000.00
2014		
2015		
Primary FoR	0205	OPTICAL PHYSICS

APAI 1

Partner/Collaborating Organisation(s)

MedImmune Ltd, Optiscan Pty Ltd

Administering Organisation The University of New South Wales

Project Summary

The goal of this project is to develop laser scanning confocal endomicroscopy as a tool for basic scientific discovery and rapid detection of disease biomarkers. The cutting-edge instrument and associated technologies will provide scientists with unprecedented access to dynamic biological processes as they occur in real-time. In addition, it will enable the development of virtual biopsies and instant diagnosis without the need for costly and time-consuming histopathological reports. Thus, it will not only drive transformative research but also transform health care delivery. It will also be a major boost to the Australian biotechnology industry with potential for enormous economic benefits.

LP100200607	Prof Donald W Kelly, Prof Alan G Crosky, Dr Jonathan H Gosse	
Approved Project Title	Experimental validation of the strain invariant failure theory for carbon/epoxy composites	
2010		\$27,500.00
2011		\$47,500.00
2012		\$47,500.00
2013		\$27,500.00
2014		
2015		
Primary FoR	0912	MATERIALS ENGINEERING

Partner/Collaborating Organisation(s)

Boeing Defence Australia

Administering Organisation The University of New South Wales

Project Summary

The project will be of national and international benefit, through providing a validated, enhanced design capability for advanced composite materials. Greater depth of understanding of such materials will allow more efficient structures to be designed in applications requiring high strength and stiffness, low weight, and resistance to corrosion and fatigue. Such applications include the aerospace, offshore and mining industries. There are, therefore, far-reaching benefits in industries important to Australia. In addition, the reputation of the Australian aerospace research industry will be promoted through a collaborative association with Boeing, a world leader in development of commercial aircraft.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2010 by State and Organisation

LP100200216 A/Prof Sarah Maddison, A/Prof Katharine P Gelber, Prof Patrick Dodson, Mr Adam Kahane
Approved Project Title **Democratic dialogue and capabilities: new opportunities in post-reconciliation era Australia**

2010		\$51,000.00
2011		\$101,000.00
2012		\$120,000.00
2013		\$70,000.00
2014		
2015		
Primary FoR	1606	POLITICAL SCIENCE

APAI 2

Partner/Collaborating Organisation(s)

Benevolent Society, Reos Partners

Administering Organisation The University of New South Wales

Project Summary

In conflict and post-conflict societies around the world, democratic dialogue has proven to be an important element in processes designed to facilitate social change and create a more just and inclusive society. This project will make a significant theoretical and methodological contribution to national and international understanding of methods for resolving longstanding intercultural conflicts. It aims to demonstrate the role that democratic dialogue can have in transforming the relationship between Indigenous and non-Indigenous Australians. It will test the hypothesis that the social and institutional change that is possible through dialogue will have capability-enhancing effects for Indigenous Australians.

LP100200142 Dr Geoffrey S Morrison, Dr Julien R Epps, Prof Eliathamby Ambikairajah, Prof Gary Edmond, Prof Joaquin Gonzalez Rodriguez, Dr Daniel Ramos, A/Prof Cuiling Zhang
Approved Project Title **Making demonstrably reliable forensic voice comparison a practical everyday reality in Australia**

2010		\$55,000.00
2011		\$97,000.00
2012		\$84,000.00
2013		\$42,000.00
2014		
2015		
Primary FoR	0906	ELECTRICAL AND ELECTRONIC ENGINEERING

APDI Dr Geoffrey S Morrison

Partner/Collaborating Organisation(s)

Australasian Speech Science and Technology Association, Australian Federal Police, Forensic and Data Centres, Guardia Civil, Departamento de Ingeniería - Área de Acústica, National Institute of Forensic Science Australia, Universidad Autonoma de Madrid (UAM), Victoria Police Forensic Services Centre, Western Australian Police, Forensic Division

Administering Organisation The University of New South Wales

Project Summary

To assist Australian law-enforcement agencies and courts in the process of the conviction of the guilty and the exoneration of the innocent, this project will develop and test a practical and demonstrably reliable forensic voice comparison system for use with Australian voices. This will allow forensic scientists to produce reliable strength of evidence statements for presentation in court using the same evaluative framework as used with DNA. In addition, application of the system during criminal investigations may lead to the refocussing of investigations on other suspects, or may help leverage guilty pleas, thus saving substantial time and money.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2010 by State and Organisation

LP100200080	Dr Daniel Ramp, Dr David I Warton, Dr Kim M Jenkins, Dr Michael B Ashcroft, Dr John R Gollan, Dr Patrick Driver	
Approved Project Title	Innovative approaches to identifying regional responses of biodiversity to climate change	
2010		\$60,000.00
2011		\$110,000.00
2012		\$100,000.00
2013		\$50,000.00
2014		
2015		
Primary FoR	0501	ECOLOGICAL APPLICATIONS

APAI 1

Partner/Collaborating Organisation(s)

Central West Catchment Management Authority, NSW Department of Environment, Climate Change and Water (DECCW), The Australian Museum

Administering Organisation The University of New South Wales

Project Summary

Australia is facing a biodiversity extinction crisis that is likely to be exacerbated by climate change. Existing models of climate at regional scales require significant advancement, not only to better understand impacts on biodiversity, but also to assist with decision making and adaptation strategies. The project will produce innovative and robust climate maps that are at a scale that is relevant for regional management, enabling predictions of how management actions interact with climate change to affect climate and biodiversity. The project will innovatively identify climate refugia and quantify the effectiveness of existing processes of conservation decision making, whilst engaging the community in climate science and providing considerable scientific training.

LP100200238	Dr Serkan Saydam, Dr Paul C Hagan, Prof Alan G Crosky, Prof Bruce K Hebblewhite, Mr Peter H Craig	
Approved Project Title	Avoiding catastrophic failure of rock bolts in underground coal mines	
2010		\$50,000.00
2011		\$100,000.00
2012		\$85,000.00
2013		\$35,000.00
2014		
2015		
Primary FoR	0914	RESOURCES ENGINEERING AND EXTRACTIVE METALLURGY

Partner/Collaborating Organisation(s)

Anglo Coal Australia, Beltana Highwall Mining Pty Ltd, Jennmar Australia Pty Ltd, Narrabri Coal Operations Pty Ltd, Springvale Pty Ltd

Administering Organisation The University of New South Wales

Project Summary

This project will examine the factors responsible for the emerging problem of catastrophic failure of rock bolts in underground mines in order to develop strategies for resisting such failures. The consequences of rock bolt failure are potentially enormous from both a mine safety and economic standpoint. The strategies developed are expected to not only reduce the likelihood of injury and death from rock falls but to also reduce very expensive mine downtime and avoid costly replacement of broken rock bolts. Australian Rock Bolting Technology is now used internationally and the work will be of substantial significance both nationally and internationally. It will help maintain Australia's international prominence in this field.

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LP100200770 A/Prof Gregg J Suaning, Dr Torsten Lehmann, Prof David B Hibbert, Dr Paul M Carter, Mr Charles R Leigh, Mr Pdraig J Hurley

Approved Project Title **Chip-scale implantable bionics for next generation therapeutic neural prostheses**

2010 \$95,000.00

2011 \$187,500.00

2012 \$185,000.00

2013 \$92,500.00

2014

2015

Primary FoR 0903 BIOMEDICAL ENGINEERING

APAI 1

Partner/Collaborating Organisation(s)

Cochlear Limited

Administering Organisation The University of New South Wales

Project Summary

Australia has an unmatched reputation as a world leader in neuroprostheses. Most notable of these is the bionic ear and, more recently, leading edge research towards a bionic eye. This project will combine the research strengths and experiences from both the hearing and visual bionics fields to address the main obstacles that prevent the number of electrical stimulation channels (equating to the number of frequencies heard by the deaf, and the number of spots of light seen by the blind) from increasing. The study will improve our understanding of the electrode-tissue interface, the life-long implantability, and electrical circuitry that will allow future bionic devices to significantly improve their performance.

LP100200348 A/Prof Ian L Turner, A/Prof Ian D Goodwin, Dr Mark A Davidson, Prof Andrew D Short

Approved Project Title **Australian coastal observation network: monitoring and forecasting coastal erosion in a changing climate**

2010 \$65,000.00

2011 \$115,000.00

2012 \$105,000.00

2013 \$55,000.00

2014

2015

Primary FoR 0911 MARITIME ENGINEERING

Partner/Collaborating Organisation(s)

CoastalCOMS Pty Ltd, Gosford City Council, NSW Department of Environment, Climate Change and Water, University of Plymouth, Warringah Council

Administering Organisation The University of New South Wales

Project Summary

Australia's coastline is one of this country's greatest natural, economic and cultural resources. The asset value of existing beach-front infrastructure is immeasurable. Climate change is driving sea-level rise and changing regional wave climates, resulting in coastal erosion and increasing the threat to coastal sustainability. This research launches a strategic university-industry-government alliance to address the considerable and growing pressure for solutions to observe and forecast accelerating shoreline erosion. The new knowledge, greater cross-sector collaboration and international linkages to be fast-tracked by this project will inform and build the capacity of Australia's coastal managers to confront the challenges of a changing climate.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2010 by State and Organisation

LP100200792	Prof Trevor D Waite, Dr Richard N Collins, Prof Brett A Neilan, Dr Greg Sinclair, Dr Robert J Ring	
Approved Project Title	Biogeochemical controls on efficacy and sustainability of uranium heap leaching	
2010		\$50,000.00
2011		\$100,000.00
2012		\$100,000.00
2013		\$50,000.00
2014		
2015		
Primary FoR	0914	RESOURCES ENGINEERING AND EXTRACTIVE METALLURGY

APAI 1

Partner/Collaborating Organisation(s)

Energy Resources of Australia Ltd

Administering Organisation The University of New South Wales

Project Summary

Improvement of the heap leaching process planned for Ranger Mine is of immense economic importance to Energy Resources of Australia Ltd. This project will benefit Australia, including Indigenous Australians who represent 18 per cent of the workforce at Ranger, through other flow-on effects, such as job creation in the Alligator Rivers regional economy and wealth generation to traditional landowners and all Australians through increased royalty payments to the Australian Government. This project will also provide insights into minimising the impacts arising from contaminant mobilisation in acid sulphate environments, such as acid mine drainage. As such, this project will greatly benefit the economic strength, health and environmental integrity of Australia.