

Number of Successful Proposals for Linkage - Projects to Commence in 2011 by State and Organisation

New South Wales

Macquarie University	8
Southern Cross University	2
The University of New England	1
The University of New South Wales	18
The University of Newcastle	3
The University of Sydney	19
University of Technology, Sydney	5
University of Western Sydney	4
University of Wollongong	4

New South Wales 64

Victoria

Deakin University	5
Monash University	24
RMIT University	2
Swinburne University of Technology	4
The University of Melbourne	17
University of Ballarat	1
Victoria University	2

Victoria 55

Queensland

Griffith University	6
James Cook University	2
Queensland University of Technology	13
The University of Queensland	22

Queensland 43

South Australia

The Flinders University of South Australia	2
The University of Adelaide	11
University of South Australia	6

South Australia 19

Western Australia

Curtin University of Technology	6
Edith Cowan University	3
Murdoch University	1
The University of Western Australia	10

Western Australia 20

**Number of Successful Proposals for Linkage - Projects to Commence in 2011 by State
and Organisation**

Tasmania

University of Tasmania 4

Tasmania 4

Northern Territory

Charles Darwin University 2

Northern Territory 2

Australian Capital Territory

The Australian National University 11

University of Canberra 1

Australian Capital Territory 12

Total Number of Grants 219

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

New South Wales

Macquarie University

LP110200175 A/Prof Mark Carter, A/Prof Jennifer Stephenson, A/Prof Katrina Williams, Dr Trevor R Clark, Dr Debra M Costley, Mr Jon Martin

Approved Project Title **The efficacy of models for educational service delivery for students with autism spectrum disorders**

2011		\$66,031.00
2012		\$105,705.50
2013		\$81,117.00
2014		\$68,517.50
2015		\$27,075.00
Primary FoR	1303	SPECIALIST STUDIES IN EDUCATION

Partner/Collaborating Organisation(s)

Autism SA, Autism Spectrum Australia (ASPECT)

Administering Organisation Macquarie University

Project Summary

This project will evaluate the effectiveness of two models of support (Satellite Class and Consultative model) for children with autism spectrum disorders (ASD) in regular schools. This research has significant potential to provide insight into the best ways of supporting children with ASD and improving their educational outcomes.

LP110200198 A/Prof Paul J Gollan, Prof Adrian J Wilkinson

Approved Project Title **Employee voice in Australia: the impact of employee participation arrangements on organisational performance and employee well-being**

2011		\$40,000.00
2012		\$80,500.00
2013		\$79,500.00
2014		\$39,000.00
Primary FoR	1503	BUSINESS AND MANAGEMENT

Partner/Collaborating Organisation(s)

Voice Project

Administering Organisation Macquarie University

Project Summary

Given the extent of union decline in Australia, there is a need to update policy to reflect the new reality of low unionisation. This project will examine what alternative arrangements exist and their economic and social consequences. It focuses on the employee impacts and employer impacts of these arrangements and will inform current policy debates.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200603 Prof Robert G Harcourt, Dr Iain C Field, Dr David J Slip
Approved Project Title **Marine predators, marine parks and marine hotspots: is zoning an effective conservation tool in a changing environment?**

2011	\$37,500.00
2012	\$75,000.00
2013	\$75,000.00
2014	\$37,500.00
Primary FoR	0602 ECOLOGY

Partner/Collaborating Organisation(s)

NSW Office of Environment and Heritage, Zoological Parks Board of NSW

Administering Organisation Macquarie University

Project Summary

Southeast Australia is a marine hotspot in terms of climate change, and is an important habitat for seals, seabirds, sharks and other predators. This project will use state-of-the-art technology to assess their feeding requirements in relation to marine park zoning and the changing oceanographic environment.

LP110200569 Dr Michelle L Power, Prof Michael R Gillings, Dr Mark Eldridge, Dr Deborah L Ashworth
Approved Project Title **Altering host-parasite interactions through wildlife conservation strategies**

2011	\$32,500.00
2012	\$62,500.00
2013	\$60,000.00
2014	\$30,000.00
Primary FoR	0603 EVOLUTIONARY BIOLOGY

Partner/Collaborating Organisation(s)

NSW Office of Environment and Heritage, The Australian Museum

Administering Organisation Macquarie University

Project Summary

Disease outbreaks are heightened in endangered animals but strategies used to conserve these species often increase risk of disease; nowhere is this more critical than in species recovery programs. The project will study disease in a recovery program to improve conservation practice and protect Australia's wildlife, ensuring our ecosystems are sustained.

LP110200782 Dr Sarah R Pryke
Approved Project Title **Boxing clever: artificial nest boxes as a conservation and research tool**

2011	\$45,000.00
2012	\$80,000.00
2013	\$70,000.00
2014	\$35,000.00
Primary FoR	0602 ECOLOGY

Partner/Collaborating Organisation(s)

Save The Gouldian Fund Incorporation

Administering Organisation Macquarie University

Project Summary

Saving endangered species increasingly requires proactive management. This project presents an innovative and practical solution to save an iconic Australian species, while also providing the scientific foundation for the development of a novel Australian-based commercial product that will be used to protect and restore Australian biodiversity.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200217 Prof Wendy A Rogers, Dr Amanda J Johnson, Dr Cynthia Townley, Ms Jeanette Sheridan, Dr Angela J Ballantyne, Dr Marianne Lotz, Prof Denise Meyerson, Mr George F Tomossy, Prof Anthony A Eysers, Prof Guy J Maddern, Prof Colin J Thomson

Approved Project Title **On the cutting edge: promoting best practice in surgical innovation**

2011	\$42,500.00
2012	\$80,000.00
2013	\$85,000.00
2014	\$47,500.00
Primary FoR	2201 APPLIED ETHICS

Partner/Collaborating Organisation(s)

Bellberry Limited, Houston Thomson Limited, Royal Australasian College of Surgeons, Sydney West Area Health Service, University of Otago

Administering Organisation Macquarie University

Project Summary

Surgical innovation leads to beneficial healthcare outcomes, but frequently at an ethical, legal and regulatory cost. This project aims to address these challenges by developing conceptual tools and regulatory mechanisms which promote patient safety and support those who practice, manage and govern surgery.

LP110200545 Dr David J Spence, Dr Helen M Pask, A/Prof Richard P Mildren, Prof James A Piper, Dr Graeme P Malcolm, Dr Gail McConnell

Approved Project Title **Versatile ultrafast Raman laser sources for biophotonics**

2011	\$45,000.00
2012	\$90,000.00
2013	\$90,000.00
2014	\$45,000.00
Primary FoR	0906 ELECTRICAL AND ELECTRONIC ENGINEERING

Partner/Collaborating Organisation(s)

M Squared Lasers Ltd

Administering Organisation Macquarie University

Project Summary

Ultrafast laser pulses (lasting a billionth of a millisecond) are vital scientific tools. In partnership with a manufacturer of ultrafast lasers, the project will develop new wavelength-versatile and robust ultrafast laser sources to enable new technologies in areas such as the study of diseases at the cellular level and micron precision drug activation.

LP110200638 A/Prof Vladimir Strezov, Prof Peter F Nelson, Dr Timothy J Evans

Approved Project Title **Atmospheric emissions of toxic trace metals and volatiles during thermal processing of iron ores**

2011	\$55,000.00
2012	\$105,000.00
2013	\$100,000.00
2014	\$50,000.00
Primary FoR	0914 RESOURCES ENGINEERING AND EXTRACTIVE METALLURGY

Partner/Collaborating Organisation(s)

Hamersley Iron Pty Ltd

Administering Organisation Macquarie University

Project Summary

The project will investigate the contribution of iron ore to the composition, chemistry and mechanism of transformation of atmospheric volatile emissions and vapour trace elements during thermal processing with the aim to strengthen the environmental performance and efficiency of the ironmaking process.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

Southern Cross University

LP110200975 Prof Bradley D Eyre, Dr Isaac R Santos, Asst Prof Matthew R Hipsey, Dr Rainer Haase

Approved Project Title **Unravelling the cycling of nitrogen along a subtropical freshwater-marine continuum using a multi-isotope, multi-tracer and modelling approach**

2011		\$65,773.50
2012		\$131,560.50
2013		\$132,562.00
2014		\$66,775.00
Primary FoR	0402	GEOCHEMISTRY

Partner/Collaborating Organisation(s)

Moreton Bay Regional Council

Administering Organisation Southern Cross University

Project Summary

This project will significantly advance our understanding of the sources, cycling and pathways of nitrogen along a sub-tropical catchment-river-estuary. As such, the findings from this research will have direct implications to the management, rehabilitation and protection of waterways (including biodiversity) in Australia.

LP110200656 Prof Anne Graham, Dr Robyn M Fitzgerald, Dr Renata A Phelps, Dr Paul J Thornton, Dr Jonathan S Toussaint, Sister Mary E O'Donoghue, Prof Nigel Thomas

Approved Project Title **Improving approaches to wellbeing in schools: what role does recognition play?**

2011		\$47,363.50
2012		\$93,305.50
2013		\$45,942.00
Primary FoR	1605	POLICY AND ADMINISTRATION

Partner/Collaborating Organisation(s)

Catholic Education Office, Lismore, Good Grief Limited, Interrelate Family Centres

Administering Organisation Southern Cross University

Project Summary

Schools play a critical role in supporting children's social and emotional wellbeing, although the concept is not well understood. This project will explore teacher, student and policy views on wellbeing and identify new approaches that will improve outcomes for children and young people.

The University of New England

LP110200627 Adj/Prof Peter C Gregg, Mr Anthony J Hawes

Approved Project Title **Development of novel pest management tools for major insect pests**

2011		\$22,500.00
2012		\$45,000.00
2013		\$45,000.00
2014		\$22,500.00
Primary FoR	0703	CROP AND PASTURE PRODUCTION

Partner/Collaborating Organisation(s)

Agbitech Pty Ltd

Administering Organisation The University of New England

Project Summary

The project will provide new options for environmentally sustainable control of some of the world's worst pests. Cost effective systems will be developed that prevent crop damage, using chemicals identical to naturally occurring plant compounds, combined with tiny quantities of insecticides, to lure and kill adult moths before they lay eggs.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

The University of New South Wales

LP110200247 Prof Jill Bennett, Ms Felicity M Fenner, Prof Dr Richard J Goodwin, A/Prof Adrian L Parr, Ms Jodi Newcombe

Approved Project Title **Curating Cities: the social and ecological potential of public art practice**

2011		\$36,500.00
2012		\$74,500.00
2013		\$75,500.00
2014		\$61,500.00
2015		\$24,000.00
Primary FoR	1901	ART THEORY AND CRITICISM

Partner/Collaborating Organisation(s)

Carbon Arts, City of Sydney Council, Object: Australian Centre for Craft and Design

Administering Organisation The University of New South Wales

Project Summary

This project researches the contribution of public art to eco-sustainable development, focusing on world's best practice and potential benefits to Sydney and cities in general. It seeks to establish how the arts can promote environmentally beneficial behaviour change and the development of green infrastructure.

LP110200134 Dr Robert W Brander, A/Prof Ian L Turner, A/Prof Dale T Dominey-Howes, Prof James Goff, Dr Wendy S Shaw, Dr Danielle Drozdowski, Dr Shauna Sherker

Approved Project Title **Rip currents: an evidence based approach to managing the greatest beach hazard**

2011		\$68,000.00
2012		\$114,500.00
2013		\$78,000.00
2014		\$31,500.00
Primary FoR	1604	HUMAN GEOGRAPHY

Partner/Collaborating Organisation(s)

Surf Life Saving Australia Ltd

Administering Organisation The University of New South Wales

Project Summary

For the first time, an understanding of the action of swimmers caught in rip currents will be linked through interviews with rip current survivors and measurements of swimmer response and rip flow. This project will provide information that will improve existing rip current education and assist in reducing the unacceptably high drowning toll on Australian beaches.

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LP110201112	A/Prof Gavin J Conibeer, Dr Xiaojing Hao, Prof Martin A Green, Mr Chao-Yang Tsao, Dr Shih-Chang Lee, Dr Wen-Ching Sun	
Approved Project Title	Supercharged silicon wafer tandem solar cells using virtual germanium substrates	
2011		\$100,000.00
2012		\$200,000.00
2013		\$200,000.00
2014		\$100,000.00
Primary FoR	0906	ELECTRICAL AND ELECTRONIC ENGINEERING

Partner/Collaborating Organisation(s)

EPISTAR Corporation, Shin Shin Natural Gas Co. LTD

Administering Organisation The University of New South Wales

Project Summary

International studies show that electricity from solar cells is one of the cleanest future energy sources, able to almost completely displace fossil fuels. To fulfil such a key role, costs must greatly reduce. The project targets reduced cost by greatly improved performance by stacking high quality thin cells on top of a conventional silicon cell.

LP110200267	Prof Christopher C Evans, Prof Rick E Krever, Prof Jeffrey I Pope, A/Prof Binh Tran-Nam, Dr Philip A Lignier	
Approved Project Title	Assessing and addressing tax system complexity in Australia	
2011		\$23,869.50
2012		\$47,739.00
2013		\$47,739.00
2014		\$23,869.50
Primary FoR	1501	ACCOUNTING, AUDITING AND ACCOUNTABILITY

Partner/Collaborating Organisation(s)

Institute of Chartered Accountants in Australia

Administering Organisation The University of New South Wales

Project Summary

Tax reform and simplification are highly topical in government, business and the wider community, with many initiatives proposed or under way. This project will identify the key factors in tax system complexity, measure the costs it imposes upon taxpayers and develop complexity indices that can test new policy measures and monitor improvements.

LP110200125	Prof Neil R Foster, Prof Ian H Frazer	
Approved Project Title	Development of dense gas technology platforms for the formulation of oral vaccines	
2011		\$65,000.00
2012		\$115,000.00
2013		\$100,000.00
2014		\$50,000.00
Primary FoR	1007	NANOTECHNOLOGY

Partner/Collaborating Organisation(s)

PRIMA BIOMED LTD

Administering Organisation The University of New South Wales

Project Summary

This project will aim to develop a technology platform that enables the formulation of vaccines that can be delivered orally and this research has the potential to radically change existing vaccination regimens. The availability of needle-free vaccination also has potential for considerable societal and economic impact in developing countries.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200651 Dr Xiaojing Hao, Prof Martin A Green, Dr Hong Song
Approved Project Title **Copper-zinc-tin-sulphide thin film solar cells: earth-abundant, non-toxic alternative for terawatt photovoltaics**

2011	\$100,000.00
2012	\$200,000.00
2013	\$200,000.00
2014	\$100,000.00
Primary FoR	0906 ELECTRICAL AND ELECTRONIC ENGINEERING

Partner/Collaborating Organisation(s)

Guodian Technology and Environment Group Co. Ltd

Administering Organisation The University of New South Wales

Project Summary

To allow large scale implementation of photovoltaics at multi-terawatt level for a low carbon emission future, technologies are required which are high in efficiency, cheap to produce, use abundant and benign materials. This project is devoted to developing such thin film solar cells by low-cost methods, which are scalable to mass production.

LP110200594 Dr Stuart J Khan, Dr Gregory Peters, Prof Nicholas J Ashbolt
Approved Project Title **Deeper and broader life cycle risk assessment - extending the frontier for hybrid methodologies**

2011	\$17,496.00
2012	\$34,992.00
2013	\$34,992.00
2014	\$17,496.00
Primary FoR	0502 ENVIRONMENTAL SCIENCE AND MANAGEMENT

Partner/Collaborating Organisation(s)

Environmental Protection Authority Victoria

Administering Organisation The University of New South Wales

Project Summary

This project is about combining detailed and global perspectives of environmental health risk from different fields of planning practice. It aims to improve the depth and breadth of the types of information used by government regulators and the community in decisions about the development of capital works.

LP110200635 A/Prof Naresh Kumar, Prof Mark D Willcox, Dr Nerida Cole
Approved Project Title **Antimicrobial contact lens cases**

2011	\$50,000.00
2012	\$97,500.00
2013	\$95,000.00
2014	\$47,500.00
Primary FoR	0903 BIOMEDICAL ENGINEERING

Partner/Collaborating Organisation(s)

Brien Holden Vision Institute

Administering Organisation The University of New South Wales

Project Summary

Contamination of contact lens cases is now recognised as a major risk factor driving the incidence of corneal infections during contact lens wear. This project will develop novel antimicrobial materials for manufacture of lens cases for the prevention of infections associated with contact lens wear.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200170	Prof Rakesh K Kumar, A/Prof Nicodemus T Tedla	
Approved Project Title	Mechanism of action of an anti-inflammatory compound which targets alternatively activated macrophages	
2011		\$36,000.00
2012		\$74,000.00
2013		\$38,000.00
Primary FoR	1107	IMMUNOLOGY

Partner/Collaborating Organisation(s)

Isu Abxis Co., Ltd.

Administering Organisation The University of New South Wales

Project Summary

The project will study the mechanism by which a novel anti-inflammatory compound, developed by our commercial partner, suppresses the activity of a population of cells known as alternatively activated macrophages. These cells play a key role in driving allergic inflammation, including the inflammation associated with asthma.

LP110200467	A/Prof Yong Li, A/Prof Peter H Graham, Dr Bradley J Walsh, Dr Zhenjun Zhao	
Approved Project Title	Proteomic study of tears to discover novel biomarkers for human breast cancer	
2011		\$28,500.00
2012		\$51,000.00
2013		\$47,500.00
2014		\$25,000.00
Primary FoR	1101	MEDICAL BIOCHEMISTRY AND METABOLOMICS

Partner/Collaborating Organisation(s)

Brien Holden Vision Institute, Minomic international Limited

Administering Organisation The University of New South Wales

Project Summary

The purpose of this project is to identify novel markers in the tears of patients with breast cancer. The results from this study may improve the prognosis of breast cancer patients.

LP110200610	Dr Michael J Manefield, Prof John J Gooding, Mr David Lam	
Approved Project Title	In situ bioremediation solutions for Australia's organochlorine contaminated aquifers	
2011		\$112,000.00
2012		\$203,000.00
2013		\$192,000.00
2014		\$183,500.00
2015		\$82,500.00
Primary FoR	1002	ENVIRONMENTAL BIOTECHNOLOGY

Partner/Collaborating Organisation(s)

Coffey Environments Australia Pty Ltd, Dow Chemical (Australia) Limited, Orica Australia Pty Ltd

Administering Organisation The University of New South Wales

Project Summary

This project will develop biological technologies to accelerate chlorinated solvent degradation in contaminated groundwater. Bacterial cultures developed in Australia will be injected into groundwater to enhance solvent degradation resulting in environmentally friendly and cost effective environmental restoration.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110201096	Prof Brett A Neilan	
Approved Project Title	Discovery of bioactive natural substances from uncultured bacteria and their production using photosynthetic reactor technology	
2011		\$47,500.00
2012		\$95,000.00
2013		\$95,000.00
2014		\$47,500.00
Primary FoR	0304	MEDICINAL AND BIOMOLECULAR CHEMISTRY

Partner/Collaborating Organisation(s)

DIAGNOSTIC TECHNOLOGY Pty. Ltd.

Administering Organisation The University of New South Wales

Project Summary

The range and rate of natural product discovery is the limiting factor in developing new therapies for cancer and infectious disease. This research will enable the discovery of new drugs, coupled to their production in a photosynthetic expression system. This represents a truly 'green' and sustainable technology for the pharmaceutical industry.

LP110200738	Prof Robert B Randall, Dr Erik J Van Voorthuysen	
Approved Project Title	Advanced signal processing techniques to improve prognostic models for rolling element bearings	
2011		\$45,000.00
2012		\$90,000.00
2013		\$90,000.00
2014		\$45,000.00
Primary FoR	0913	MECHANICAL ENGINEERING

Partner/Collaborating Organisation(s)

Mayer International Design Engineers Pty Ltd, SpectraQuest Inc

Administering Organisation The University of New South Wales

Project Summary

Novel signal processing techniques for predicting the development of faults in rolling element bearings will be developed and employed in a statistical prognostic model. This will greatly improve the economics of operation of many different machines, including helicopters and other aircraft, mining machinery, and wind turbines.

LP110200322	Dr Scott A Rice, A/Prof Stephen J Blanksby, Dr Philip J Barker, Dr Shane A MacLaughlin, Dr Todd W Mitchell, Dr Michael J Manefield, Prof Yehuda Cohen	
Approved Project Title	Microbial infestation of pre-painted steel building materials: chemical and microbial characterization, model development and control strategies	
2011		\$55,000.00
2012		\$105,000.00
2013		\$95,000.00
2014		\$45,000.00
Primary FoR	1002	ENVIRONMENTAL BIOTECHNOLOGY

Partner/Collaborating Organisation(s)

Blue Scope Steel Limited

Administering Organisation The University of New South Wales

Project Summary

Coated steel building materials are a multi-billion dollar Australian industry. Microorganisms form slime layers on those materials, which are unsightly and reduce their energy benefits. The project will identify the problem organisms, the factors that facilitate their growth and will develop novel biofilm resistant, functional building materials.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200996	A/Prof Juliet M Richters, A/Prof Alexandra L Barratt, Dr Deborah J Bateson, Dr Alison Rutherford, Ms Ann Brassil	
Approved Project Title	Contraception understandings and experiences of Australian women	
2011		\$30,363.00
2012		\$65,651.50
2013		\$77,330.50
2014		\$42,042.00
Primary FoR	1699	OTHER STUDIES IN HUMAN SOCIETY

Partner/Collaborating Organisation(s)

Family Planning NSW

Administering Organisation The University of New South Wales

Project Summary

Most women use contraception for much of their lives, yet we know little about how they experience the effects on their bodies and relationships. This in-depth study will explore women's thoughts, feelings and experiences and the results will be used for training doctors and nurses in contraceptive counselling and prescribing.

LP110201146	Prof Veena Sahajwalla, A/Prof Rita Khanna, Mr Michiel C Freislich, Dr Bharat Bhushan	
Approved Project Title	Lower temperature ironmaking: macro and atomic-level understanding of accelerated carburisation of reduced iron	
2011		\$55,000.00
2012		\$110,000.00
2013		\$110,000.00
2014		\$55,000.00
Primary FoR	0907	ENVIRONMENTAL ENGINEERING

Partner/Collaborating Organisation(s)

Hatch Associates

Administering Organisation The University of New South Wales

Project Summary

This project will gain an understanding of how iron-oxide can be simultaneously reduced and carburised in ironmaking, including the kinetics and associated mechanisms of the reaction with waste coal/iron-ore fines. This will be the key to developing a relatively low-temperature process, with significant savings in energy consumption.

LP110200653	Prof Heather Worth, Dr Patrick R Rawstone, Dr Angela Kelly	
Approved Project Title	Mobility and HIV risk across the Papua New Guinea/Indonesia border	
2011		\$30,355.50
2012		\$62,666.50
2013		\$52,985.50
2014		\$20,674.50
Primary FoR	1117	PUBLIC HEALTH AND HEALTH SERVICES

Partner/Collaborating Organisation(s)

Komisi penanggulangan AIDS provinsi Papua, Papua New Guinea National AIDS Council

Administering Organisation The University of New South Wales

Project Summary

This project will seek to understand HIV risk amongst those who cross the border between Papua New Guinea and Indonesia for traditional activities, business or leisure.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110201157 Prof Aibing B Yu, Dr Runyu Y Yang, Dr Timothy J Evans
Approved Project Title **Fundamental investigation of the briquetting behaviour of iron ore fines**

2011		\$50,000.00
2012		\$100,000.00
2013		\$100,000.00
2014		\$50,000.00
Primary FoR	0904	CHEMICAL ENGINEERING

Partner/Collaborating Organisation(s)

Hammersley Iron Pty Ltd

Administering Organisation The University of New South Wales

Project Summary

Handling, including transport and processing, may account for up to 60 per cent of the total delivered price of iron ore. This project will develop an integrated computer model for an improved briquetting process of ore fines with reduced operation cost and less environmental impact, leading to a more competitive and sustainable mineral industry in Australia.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

The University of Newcastle

LP110200524 Prof Natasha L Boland, Prof Peter J Stuckey, Dr Alexandre d Mendes, Dr Faramroze Engineer, Prof Mathieu (Martin) W Savelsbergh, Dr Andreas T Ernst

Approved Project Title **Mathematics and computing for integrated stockyard-centric management of mining supply chains**

2011 \$100,000.00

2012 \$190,000.00

2013 \$180,000.00

2014 \$90,000.00

Primary FoR 0801 ARTIFICIAL INTELLIGENCE AND IMAGE PROCESSING

Partner/Collaborating Organisation(s)

Hunter Valley Coal Chain Coordinator Limited, QMASTOR Limited

Administering Organisation The University of Newcastle

Project Summary

Blended mineral products, such as coal and iron ore, make a strong contribution to Australia's economy. Blending occurs in stockpiles, so to realise product value, stockyard and supply chain operational plans must align with blend targets. This project will provide new mathematical and computational planning tools to maximise this value.

LP110201152 Prof Bogdan Z Dlugogorski, Prof Eric M Kennedy

Approved Project Title **Mitigation of nitrogen oxides (NOx) formed in blasting of ammonium nitrate explosives**

2011 \$90,000.00

2012 \$170,000.00

2013 \$160,000.00

2014 \$80,000.00

Primary FoR 0914 RESOURCES ENGINEERING AND EXTRACTIVE METALLURGY

Partner/Collaborating Organisation(s)

Dyno Nobel Asia Pacific Ltd

Administering Organisation The University of Newcastle

Project Summary

Several mines in Australia experience the formation of orange-brown fumes containing nitrogen oxide (NOx) gases, immediately after blasting of ammonium nitrate (AN) explosives to crush the rock. This project develops new explosives technologies, aimed to mitigate the formation of post-blast fumes, that are safe to people and the environment.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200920 Prof Geoffrey M Evans, Dr Elham Doroodchi
Approved Project Title **Enhanced carbon removal in secondary steel refining**

2011		\$45,000.00
2012		\$80,000.00
2013		\$70,000.00
2014		\$35,000.00
Primary FoR	0914	RESOURCES ENGINEERING AND EXTRACTIVE METALLURGY

Partner/Collaborating Organisation(s)

Blue Scope Steel Limited

Administering Organisation The University of Newcastle

Project Summary

The purpose of this project is to develop effective methodologies to increase the decarburisation rate in the vacuum degassing process which is used for the production of high value added steel products at BlueScope Steel. It is expected that the project outcomes will result in improved quality and productivity of the high value added steel products.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

The University of Sydney

LP110201109 Prof Dale L Bailey, Dr Stephen K Jones, Prof Clive Baldock, A/Prof Zdenka Kuncic

Approved Project Title **A phenomenological approach to improve radioembolisation treatment of cancer**

2011		\$45,000.00
2012		\$87,500.00
2013		\$87,500.00
2014		\$45,000.00
Primary FoR	0299	OTHER PHYSICAL SCIENCES

Partner/Collaborating Organisation(s)

Sirtex Technology Pty Ltd.

Administering Organisation The University of Sydney

Project Summary

In recent years, radioembolisation for liver cancer has become an effective therapeutic option. However, it is likely that patients are being 'under-treated' as doses remain based on results from external radiation therapy. This project will develop a phenomenological approach to radionuclide therapy to improve outcomes for cancer patients.

LP110200316 Prof Marcela M Bilek, Prof Anthony S Weiss, Prof David R McKenzie

Approved Project Title **Multifunctional surfaces for implantable biomedical devices**

2011		\$90,000.00
2012		\$180,000.00
2013		\$180,000.00
2014		\$90,000.00
Primary FoR	0299	OTHER PHYSICAL SCIENCES

Partner/Collaborating Organisation(s)

Cochlear Limited, LfC Sp. z o.o., Spinecell Pty Ltd

Administering Organisation The University of Sydney

Project Summary

This project aims to improve the quality of life of patients receiving biomedical implants. The project will develop new plasma processing methods to create surfaces for implants that will give control over the response of human tissues. Tissue integration with the device will be achieved where required and infection suppressed.

LP110200596 A/Prof Janette M Bobis, Dr Jennifer A Way, A/Prof Judith A Anderson

Approved Project Title **Empowering teachers of middle-years mathematics: becoming self-directed learners**

2011		\$26,500.00
2012		\$54,000.00
2013		\$52,500.00
2014		\$25,000.00
Primary FoR	1303	SPECIALIST STUDIES IN EDUCATION

Partner/Collaborating Organisation(s)

Catholic Schools Office

Administering Organisation The University of Sydney

Project Summary

This project will provide innovative strategies to enhance mathematics teaching and learning of middle-years students. It will develop a robust teacher learning development model that can be used by our industry partner and practitioners in the wider educational community to contribute to the development of teachers becoming self-directed learners.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200075	Prof Elizabeth M Chiarella, Prof Merrilyn M Walton, Prof Belinda J Bennett, Prof Terry R Carney, Dr Patrick J Kelly, Ms Jann P Foster	
Approved Project Title	National registration of health practitioners: a comparative study of the complaints and notification system under the national system and in NSW	
2011		\$54,645.00
2012		\$109,290.00
2013		\$109,290.00
2014		\$54,645.00
Primary FoR	1117	PUBLIC HEALTH AND HEALTH SERVICES

APDI Ms Jann P Foster

Partner/Collaborating Organisation(s)

Australian Health Practitioner Regulation Agency, Health Professional Councils Authority

Administering Organisation The University of Sydney

Project Summary

This project will compare the NSW healthcare complaints system with that of the new Australian Health Practitioner Regulation Agency to provide insight into complaints handling and notification at a state and national level. It will determine best practice in government assessment and resolution methods and reveal complainant experiences.

LP110200328	Prof Richard De Dear, Dr Christhina Candido, Mr Andrew C Roussac, Ms Leena E Thomas	
Approved Project Title	Building occupants survey system Australia	

2011		\$50,000.00
2012		\$100,000.00
2013		\$100,000.00
2014		\$50,000.00
Primary FoR	1201	ARCHITECTURE

APDI Dr Christhina Candido

Partner/Collaborating Organisation(s)

Arup Pty Ltd , Brookfield Multiplex Ltd, Investa Properties Group, Stockland Property Management Pty Ltd, The General Property Trust Limited

Administering Organisation The University of Sydney

Project Summary

The Building Occupants Survey System Australia - BOSSA - is a post-occupancy evaluation instrument. The database will become an Australian benchmark against which particular buildings can be compared, providing both a valuable quality assurance service to building owners and managers, and a resource for researchers in Australian built environments.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200166	Prof Dagan Feng, Dr Xiu Ying Wang, Dr Weidong Cai, Dr Shipeng Li, Dr Wenwu Zhu, Prof Michael J Fulham, A/Prof Stefan Eberl	
Approved Project Title	Med-Graphic Avatar - a comprehensive, holistic and customisable model for personal health records	
2011		\$75,000.00
2012		\$134,000.00
2013		\$118,000.00
2014		\$59,000.00
Primary FoR	0806	INFORMATION SYSTEMS

Partner/Collaborating Organisation(s)

Microsoft Research Asia

Administering Organisation The University of Sydney

Project Summary

Our customisable Med-Graphic Avatar will open up unprecedented access, intuitive interpretation, smart utilisation, and new understanding of massive, diverse health data, and will herald a revolution in patient-centric, holistic medical care, synergising with next generation of participatory, personalised, preventative and predictive eHealth.

LP110200825	Dr Will F Figueira, Dr Aldo S Steffe	
Approved Project Title	Closing the loop: understanding the relationships between recreational fishing surveys, fishing regulations and fisheries management objectives	
2011		\$17,361.00
2012		\$33,222.00
2013		\$31,722.00
2014		\$15,861.00
Primary FoR	0704	FISHERIES SCIENCES

Partner/Collaborating Organisation(s)

NSW Department of Industry and Investment

Administering Organisation The University of Sydney

Project Summary

The project aims to improve the management of recreational fisheries in Australia by using model-based evaluations to understand the effects of recreational fishing regulations and survey design on the realisation and assessment of fisheries management objectives.

LP110200562	Dr Adam J Guastella, Prof Colin MacLeod, Dr Elizabeth M Scott	
Approved Project Title	Attentional and conditioning mechanisms that mediate overcoming anxiety	
2011		\$45,900.00
2012		\$90,372.50
2013		\$103,700.00
2014		\$59,227.50
Primary FoR	1701	PSYCHOLOGY

Partner/Collaborating Organisation(s)

Pearl 100

Administering Organisation The University of Sydney

Project Summary

Anxiety is a common emotion for most Australians that can cause substantial costs for individuals and society. This project uses dominant psychological models to identify critical mechanisms that are believed to predict capacity for, and change in, anxiety. Outcomes substantially advance knowledge about how humans overcome anxiety.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200413 A/Prof Philip Leong
Approved Project Title **A cloud computing environment for managing foreign exchange risk**

2011		\$62,500.00
2012		\$125,000.00
2013		\$125,000.00
2014		\$62,500.00
Primary FoR	0801	ARTIFICIAL INTELLIGENCE AND IMAGE PROCESSING

Partner/Collaborating Organisation(s)

Westpac Banking Corporation

Administering Organisation The University of Sydney

Project Summary

This project involves using parallel computing and machine learning to improve the real-time handling of a bank's foreign exchange risk. It will lead to improved techniques to manage exchange rate variations, enabling banks to better assess their risk and will ultimately lead to improved services for Australian companies.

LP110200898 Prof Dr Thomas Maschmeyer, Prof Tony M Vassallo, A/Prof Anthony F Masters
Approved Project Title **New high performance zinc bromine batteries with novel electrode/electrolyte systems**

2011		\$80,000.00
2012		\$145,000.00
2013		\$130,000.00
2014		\$65,000.00
Primary FoR	0303	MACROMOLECULAR AND MATERIALS CHEMISTRY

Partner/Collaborating Organisation(s)

Alpha Chemicals Pty Ltd, ZBB Technologies Ltd

Administering Organisation The University of Sydney

Project Summary

Renewable sources of energy are of particular interest in the era of diminishing fossil fuels. Efficient energy storage is a missing link for renewable energy. Zinc-bromine batteries have great potential as energy storage. This project will aim to fundamentally re-design the existing first generation systems to improve power density by 300-400 per cent.

LP110200731 Prof Alexander B McBratney, Dr Budiman Minasny
Approved Project Title **Wealth from water: soil information for new sustainable irrigated agriculture in Tasmania**

2011		\$64,729.00
2012		\$122,229.00
2013		\$144,000.00
2014		\$86,500.00
Primary FoR	0503	SOIL SCIENCES

Partner/Collaborating Organisation(s)

Department of Primary Industries Parks Water and Environment (TAS)

Administering Organisation The University of Sydney

Project Summary

Key to sustainable irrigation for agricultural production is an understanding of the soil resource. Conventional methods to obtain soil information are outdated and expensive. This project will develop a new strategy to quantitatively assess soil sustainability and to analyse management options thoroughly.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200041	Prof Iain D McCalman, Dr Stephanie C Anderson, Dr Jude P Philp, Dr Michael B Davis, Dr Nigel P Erskine, Mr Michael Crayford	
Approved Project Title	Cultures of Coast and Sea: maritime environmental, cultural and ethnographic histories of north-east Australia, 1770-2010	
2011		\$126,418.50
2012		\$246,162.50
2013		\$218,699.50
2014		\$98,955.50
Primary FoR	2103	HISTORICAL STUDIES

APDI Dr Michael B Davis

Partner/Collaborating Organisation(s)

Australian National Maritime Museum, Queensland Museum, Silentworld Foundation

Administering Organisation The University of Sydney

Project Summary

Using new cross-disciplinary approaches and methods, this collaboration between university scholars, museum curators and a philanthropic foundation will study the impact of maritime and marine environmental and cultural change on the peoples and habitats of the Great Barrier Reef and the Torres Strait from the eighteenth century to the present.

LP110200336	Dr Jordi McKenzie, Mr David C Court, Prof Charles R Plott	
Approved Project Title	Nobody knows anything? Applying pari-mutuel prediction markets to the motion picture industry	
2011		\$15,000.00
2012		\$15,000.00
Primary FoR	1402	APPLIED ECONOMICS

Partner/Collaborating Organisation(s)

Australian Film Television and Radio School

Administering Organisation The University of Sydney

Project Summary

This project will explore the predictability of unreleased motion pictures' theatrical box office revenues using incentive rich pari-mutuel prediction markets. The mechanism will promote price discovery and associated probability estimates that will benefit those already investing in the industry as well as encouraging new investment.

LP110200227	Prof David R McKenzie, Dr Natalie L James	
Approved Project Title	Feedthrough technologies for polymeric encapsulated active implants	
2011		\$97,500.00
2012		\$195,000.00
2013		\$195,000.00
2014		\$97,500.00
Primary FoR	0912	MATERIALS ENGINEERING

Partner/Collaborating Organisation(s)

Cochlear Limited, Raymax Applications Pty Ltd

Administering Organisation The University of Sydney

Project Summary

The project will address the scientific challenges of signal transfer between tissue and novel active implantable medical devices, with major implications for cochlear implant manufacture. This will lead to improvements in the quality of life of the hearing-impaired, and will make an important contribution to the development of other sensory implants.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200473 Prof Richard Shine
Approved Project Title **Ecology, impact and control of cane toads on the southern invasion front**

2011	\$63,000.00
2012	\$118,000.00
2013	\$110,000.00
2014	\$104,000.00
2015	\$92,000.00
2016	\$43,000.00
Primary FoR	0602 ECOLOGY

Partner/Collaborating Organisation(s)

Australian Wildlife Conservancy, Foundation for Australia's Most Endangered Species Inc, Lismore City Council, NSW Office of Environment and Heritage, Northern Rivers Catchment Management Authority, Tweed Shire Council

Administering Organisation The University of Sydney

Project Summary

The invasion of cane toads has killed many native animals in tropical Australia, but the toads' southern (NSW) invasion front remains unstudied. This project will build on recent research to understand how toads affect southern biodiversity, and will develop new ways to reduce that impact.

LP110200784 Dr Gregor Verbic, Prof David J Hill
Approved Project Title **Smart house energy management system**

2011	\$67,500.00
2012	\$137,500.00
2013	\$145,000.00
2014	\$75,000.00
Primary FoR	0906 ELECTRICAL AND ELECTRONIC ENGINEERING

Partner/Collaborating Organisation(s)

AUSGRID

Administering Organisation The University of Sydney

Project Summary

This multidisciplinary project will empower Australia's power industry with tools and knowledge that will enable the transformation to be more intelligent and flexible. It will help reduce greenhouse gas emissions and increase energy efficiency by smarter use of the resources at household level.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200744 Prof Branka Vucetic, Dr Wibowo Hardjawana
Approved Project Title **Radio resources and inter-cell interference management in smart grid wireless access networks**

2011		\$35,000.00
2012		\$110,000.00
2013		\$115,000.00
2014		\$40,000.00
Primary FoR	1005	COMMUNICATIONS TECHNOLOGIES

Partner/Collaborating Organisation(s)

AUSGRID

Administering Organisation The University of Sydney

Project Summary

Wireless communications is the key enabler of smart grids. The project will deliver novel radio resource allocation protocols with low latency, high radio spectrum efficiency and reliability for radio access networks in smart grids. The project will develop new technologies with a potential to be implemented in future Long Term Evolution (LTE) machine-to-machine (M2M) standards.

LP110201151 Dr Stefan B Williams, Dr Oscar Pizarro, Mr Ballard J Blair
Approved Project Title **Supervised autonomy for autonomous underwater vehicles (AUVs) using limited bandwidth communication channels**

2011		\$40,923.00
2012		\$81,846.00
2013		\$81,846.00
2014		\$40,923.00
Primary FoR	0911	MARITIME ENGINEERING

APDI Mr Ballard J Blair

Partner/Collaborating Organisation(s)

Thales Australia

Administering Organisation The University of Sydney

Project Summary

The project aims to improve the feedback link between an autonomous underwater vehicle (AUV) and an operator by developing novel acoustic communication schemes that exploit developments in machine learning, network, and communication theory and represents a step towards truly autonomous and intelligent surveying using AUV systems.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200277	Dr Yvonne A Zurynski, Prof Elizabeth J Elliott, A/Prof Helen M Leonard, Prof John Christodoulou	
Approved Project Title	Psychosocial and economic impacts of rare diseases on Australian children, families and health professionals	
2011		\$54,565.50
2012		\$98,168.00
2013		\$103,824.50
2014		\$60,222.00
Primary FoR	1117	PUBLIC HEALTH AND HEALTH SERVICES

Partner/Collaborating Organisation(s)

Royal Australasian College of Physicians, Smile Foundation Limited , Steve Waugh Foundation , The Association of Genetic Support Australasia, The Children's Hospital at Westmead

Administering Organisation The University of Sydney

Project Summary

Rare childhood diseases have enormous impacts on children and families; health services, and health professionals. This project will enable Australia to lead the international research effort by using a coordinated approach to study the impacts of rare diseases in order to improve psychosocial, health and economic outcomes for children and families.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

University of Technology, Sydney

LP110200271 Prof Christine M Duffield, Prof Di Twigg, A/Prof Anne M Williams, Dr Michael A Roche, Adj/Prof Catherine A Stoddart, A/Prof Sue M Davis, A/Prof Sean P Clarke

Approved Project Title **The impact of adding nursing support workers (assistants in nursing) to patient, nurse and system (ward) level outcomes**

2011	\$50,000.00
2012	\$94,000.00
2013	\$100,000.00
2014	\$56,000.00
Primary FoR	1110 NURSING

Partner/Collaborating Organisation(s)

Sir Charles Gairdner Hospital Perth, WA Health - Nursing and Midwifery

Administering Organisation University of Technology, Sydney

Project Summary

This project will identify the impact of adding nursing support workers on outcomes for patients (morbidity, mortality, quality of emotional care); staff (job satisfaction, intention to remain in the job); and the work environment (time spent in patient care, relationships with medical staff, staff experiences, leadership and support of workers).

LP110200708 Dr Matthias H Haeusler, Dr Martin Tomitsch, Prof Tom Barker, Dr Nathan G Kirchner, Dr Michelle E Zeibots, Dr Garry J Glazebrook, Mr Daniel P Hill

Approved Project Title **Responsive transport environments: spatial and visual user information technologies to allow improved passenger flow and a better customer experience**

2011	\$20,990.50
2012	\$42,427.00
2013	\$43,329.50
2014	\$21,893.00
Primary FoR	1201 ARCHITECTURE

Partner/Collaborating Organisation(s)

Arup Pty Ltd , City of Sydney Council, Grimshaw Architects Pty Ltd, RailCorp, Transport NSW

Administering Organisation University of Technology, Sydney

Project Summary

The research will investigate how to relieve growing usage pressure on Australian public transport by using user-responsive digital technologies to offer a complementary approach to infrastructure expansion. The work includes the evaluation of prototypes in real transport locations to evaluate the impact on user capacity and the customer experience.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200162 A/Prof Jianchun Li, Prof Bijan Samali, Prof Keith I Crews
Approved Project Title **Determination of the condition and strength capacity of in-service timber poles in energy networks**

2011	\$45,000.00
2012	\$90,000.00
2013	\$95,000.00
2014	\$50,000.00
Primary FoR	0905 CIVIL ENGINEERING

Partner/Collaborating Organisation(s)

AUSGRID

Administering Organisation University of Technology, Sydney

Project Summary

The project addresses an important issue facing power industries and engineering community worldwide, that is, reliable and optimal management of power distribution infrastructures. The outcomes lead to new technologies that not only provide great social-economic benefits but advance knowledge and practice of the research at international level.

LP110200454 Prof Peter J Ralph, Dr Justin R Seymour, Prof Michael Kuhl, Dr Michael A Rasheed
Approved Project Title **Novel oxygen sensing tools for monitoring the effects of dredging on Australian seagrass communities**

2011	\$70,000.00
2012	\$120,000.00
2013	\$95,000.00
2014	\$45,000.00
Primary FoR	0607 PLANT BIOLOGY

Partner/Collaborating Organisation(s)

QLD Department of Employment, Economic Development and Innovation , University of Copenhagen

Administering Organisation University of Technology, Sydney

Project Summary

Seagrass meadows sustain marine biodiversity and the fishing industries on Australian coasts. Dredging of ports and shipping channels is contributing to their rapid global decline. The project will use state-of-the-art technologies in bio-optics and genomics to create a toolkit for seagrass managers to make informed decisions to safeguard seagrass meadows.

LP110200767 Prof Stuart B White, Dr Rodney A Stewart, Prof Mary-Anne Williams, Dr Damien P Giurco, Dr Kelvin R O'Halloran
Approved Project Title **Establishing a next generation framework to determine the influence of intelligent water metering on householder attitudes and behaviours**

2011	\$29,000.00
2012	\$55,000.00
2013	\$61,500.00
2014	\$35,500.00
Primary FoR	1604 HUMAN GEOGRAPHY

Partner/Collaborating Organisation(s)

Mid Coast Water, Wide Bay Water Corporation

Administering Organisation University of Technology, Sydney

Project Summary

This project will test competing theories on how householders respond to interactive water consumption data from smart meters. The outcome is a novel framework for intelligent water management; underpinned by innovative research into causal mechanisms linking data communication to knowledge, and the impact of knowledge on attitudes and behaviours.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

University of Western Sydney

LP110200654 A/Prof Hart K Cohen, Dr Rachel N Morley, Dr Juan F Salazar, Mr Michael Cawthorn

Approved Project Title **Digital archives, datadiversity and discoverability: the Strehlow Collection as knowledge resource for remote indigenous communities**

2011 \$15,000.00

2012 \$30,000.00

2013 \$30,000.00

2014 \$15,000.00

Primary FoR 1902 FILM, TELEVISION AND DIGITAL MEDIA

Partner/Collaborating Organisation(s)

Northern Territory Library, Strehlow Research Centre

Administering Organisation University of Western Sydney

Project Summary

How will the digitisation of archives of the Strehlow Collection enable principles of best practice in resourcing Aboriginal cultural and community interests? The outcomes of this project will ensure that those following in their footsteps of traditional cultural owners can become the future custodians of their digital cultural heritage.

LP110200394 A/Prof Sandra B Hale, Prof David Tait, Dr Meredith Rossner, A/Prof Jemina M Napier, A/Prof Ludmila Stern, Adj/Prof Uldis E Ozolins, Prof Jane Goodman-Delahunty, Ms Diane H Jones

Approved Project Title **Interpreters in court: witness credibility with interpreted testimony**

2011 \$20,000.00

2012 \$70,000.00

2013 \$77,500.00

2014 \$27,500.00

Primary FoR 1801 LAW

Partner/Collaborating Organisation(s)

Australasian Institute of Judicial Administration (AIJA), Department of Justice & Attorney General , Department of Justice and Attorney General, NSW, Department of Justice, Victoria, ICE Design Australia , ONCALL Interpreters and Translators Agency Pty Ltd, PEDDLE THORP & WALKER , Sign Language Communications

Administering Organisation University of Western Sydney

Project Summary

The study will improve access to justice for non-English speaking witnesses, testifying in court through an interpreter. It achieves this by taking advantage of new wireless technologies to transform the social and technological environment of the courtroom.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110201090 Dr Debbie Horsfall, A/Prof Rosemary J Leonard, Dr John P Rosenberg, Ms Gillian M Batt
Approved Project Title **Caring at end of life: understanding the nature and effect of informal community care networks for people dying at home**

2011	\$21,516.50
2012	\$52,476.00
2013	\$54,005.00
2014	\$23,045.50
Primary FoR	1608 SOCIOLOGY

Partner/Collaborating Organisation(s)

Cancer Council NSW

Administering Organisation University of Western Sydney

Project Summary

This project will provide an understanding of the function and purpose of caring networks for people at the end of their life, specifically for people who are dying at home. This understanding will enable the development of communities capacity in addition to informing a national health promotion approach to palliative care.

LP110200153 Prof Jane M Ussher, A/Prof Janette Perz, Dr Emilee Gilbert, Ms Gillian M Batt, Dr Kendra J Sundquist, Ms Sue Carrick, Dr Gerard V Wain, Dr Laura T Kirsten, Ms Kim M Hobbs, Dr Catherine Mason, Dr Pandora Patterson, Dr Edith Weisberg

Approved Project Title **The construction and experience of fertility in the context of cancer: patient, partner and health professional perspectives**

2011	\$74,748.00
2012	\$161,237.50
2013	\$170,164.00
2014	\$83,674.50
Primary FoR	1117 PUBLIC HEALTH AND HEALTH SERVICES

Partner/Collaborating Organisation(s)

CanTeen, Cancer Council NSW, Family Planning NSW, National Breast Cancer Foundation, Nepean Hospital, Westmead Hospital

Administering Organisation University of Western Sydney

Project Summary

This project will examine the nature and consequences of fertility concerns for men and women with cancer, and their partners, across a range of cancer types, as well as the knowledge and experience of health professionals. This will increase knowledge of this important health concern, and lead to the development of programs to reduce distress.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

University of Wollongong

LP110200648 A/Prof Stephen J Blanksby, Dr Todd W Mitchell, Dr John L Campbell

Approved Project Title **Development of ozone-induced dissociation for lipidomics workflows**

2011		\$44,500.00
2012		\$89,000.00
2013		\$89,000.00
2014		\$44,500.00
Primary FoR	0301	ANALYTICAL CHEMISTRY

Partner/Collaborating Organisation(s)

AB Sciex Pte Ltd

Administering Organisation University of Wollongong

Project Summary

An Australian invention (ozone induced dissociation) will be developed in collaboration with a major instrument manufacturer. This project will provide Australian researchers with unique capabilities to investigate the role of lipids (fats) in human disease and will place them at the forefront of lipid research internationally.

LP110200537 A/Prof Ian M Brown, Prof Lori Lockyer, A/Prof Peter Caputi, Prof James S Tognolini

Approved Project Title **Multiliteracy testing: a criterion-referenced tool to assess secondary students' multiliteracy learning within a technology-rich, multimodal domain**

2011		\$31,043.50
2012		\$61,080.00
2013		\$71,886.00
2014		\$41,849.50
Primary FoR	1303	SPECIALIST STUDIES IN EDUCATION

Partner/Collaborating Organisation(s)

Pearson Foundation

Administering Organisation University of Wollongong

Project Summary

Evidence shows that while multimodal learning in schools is occurring, a valid measurement and diagnostic tool to provide reliable scores and accurate diagnostic information does not exist. This project aims to develop a criterion-referenced tool to measure students' multiliteracy learning within technology-rich, multimodal domains.

LP110200105 Prof Kristine French, Prof Christopher M Bull, Dr Grant C Hose, Mr Paul G Story, Dr James D Woodman

Approved Project Title **The effect of aerial spraying of two pesticides on semi-arid grasslands**

2011		\$44,000.00
2012		\$96,000.00
2013		\$104,000.00
2014		\$52,000.00
Primary FoR	0502	ENVIRONMENTAL SCIENCE AND MANAGEMENT

Partner/Collaborating Organisation(s)

Australian Plague Locust Commission

Administering Organisation University of Wollongong

Project Summary

The project will investigate how two pesticides, fipronil and metarrhizium, used to control locusts, affect semi-arid ecosystems by examining impacts on invertebrates, their predators, lizards and soil processes. The effects will be followed through time in a large scale experiment to determine recovery and compare each pesticide.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200447	Prof Buddhima N Indraratna, Dr Cholachat Rujikiatkamjorn, Dr Jayan Vinod, Mr Robert Armstrong, Mr Siva T Sivakumar, Mr Geoffrey W McIntosh, Mr Scott R Morrison	
Approved Project Title	Cyclic behaviour of unstable soils stabilised by lignosulfonate with special reference to rapid transport infrastructure	
2011		\$70,000.00
2012		\$140,000.00
2013		\$140,000.00
2014		\$105,000.00
2015		\$35,000.00
Primary FoR	0905	CIVIL ENGINEERING

Partner/Collaborating Organisation(s)

Chemstab Consulting Pty Ltd, Coffey Geotechnics Pty. Ltd., Douglas Partners Pty Ltd, QLD Department of Transport and Main Roads

Administering Organisation University of Wollongong

Project Summary

The project will pioneer the use of the paper industry by-product, lignosulphonate, to stabilise unstable soils in rural and regional Australia. The prevention of unacceptable erosion, settlement and mass movement of these soils will enable efficient operation of high speed rail and busy highways that are vital for agriculture and mineral industries.

**Summary of Successful Linkage - Projects Proposals for Funding to
Commence in 2011 by State and Organisation**

Victoria

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

Deakin University

LP110200787 Dr David S Jones, Dr Ursula M de Jong, Dr Robert J Fuller

Approved Project Title 'Sea change' communities: inter-generational perception and sense of place

2011		\$22,500.00
2012		\$42,500.00
2013		\$20,000.00
Primary FoR	1299	OTHER BUILT ENVIRONMENT AND DESIGN

Partner/Collaborating Organisation(s)

Nepean Conservation Group Inc, Nepean Historical Society, Planisphere, Queenscliffe Community Association, Queenscliffe Historical Museum Inc

Administering Organisation Deakin University

Project Summary

The aim of this research is to establish a more rigorous method of evaluating the impact of the sea change process on the built and natural environments of coastal settlements. It will assist those communities to implement effective, place-sensitive sustainable planning and associated development practices.

LP110200167 A/Prof Andrew J Lewis, Prof John W Toumbourou, Prof Daniel I Lubman, Dr Tess Knight

Approved Project Title Deakin Family Options: engaging youth with high prevalence mental health problems using family based interventions

2011		\$60,973.00
2012		\$121,197.50
2013		\$60,224.50
Primary FoR	1701	PSYCHOLOGY

Partner/Collaborating Organisation(s)

Australian Drug Foundation, Beyondblue: the national depression initiative, Drummond Street Services Inc, Turning Point Alcohol and Drug Centre

Administering Organisation Deakin University

Project Summary

Youth depression, anxiety and substance abuse are prevalent, distressing and costly problems impacting one in five young Australians. This collaborative project - called 'Deakin Family Options' - will evaluate a family based intervention in order to broaden the therapeutic approaches used for young people and their families.

LP110200746 Prof Mark A McGillivray, Dr David B Carpenter

Approved Project Title Supporting pacific development

2011		\$16,611.00
2012		\$44,611.00
2013		\$60,000.00
2014		\$32,000.00
Primary FoR	1402	APPLIED ECONOMICS

Partner/Collaborating Organisation(s)

Sustineo Pty Limited

Administering Organisation Deakin University

Project Summary

The research looks at the extent to which twenty-two of the world's richest countries support development in the Pacific Islands region through their efforts with respect to aid, trade, migration, private investment, security, technology and environmental sustainability. It will develop an index that will rank these countries on the basis of these efforts.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200364 Prof Saeid Nahavandi, Dr Doug C Creighton, Dr Nong Gu, Dr Asim Bhatti
Approved Project Title **Enabling ambient intelligence for manufacturing processes through distributed camera networks**

2011		\$42,500.00
2012		\$85,000.00
2013		\$85,000.00
2014		\$42,500.00
Primary FoR	0910	MANUFACTURING ENGINEERING

Partner/Collaborating Organisation(s)

Boeing Australia Ltd, General Motors-Holden's Automotive Ltd, Vestas Technology R&D Singapore Pte. Ltd.

Administering Organisation Deakin University

Project Summary

This project will develop methods to optimise and schedule networks of smart and traditional cameras in a manufacturing environment, enabling knowledge capture, manage performance and identify causes of quality degradation. This research will assist Australian manufacturers to stay competitive in the dynamic global market.

LP110200547 Prof Xungai Wang, Dr Rangam Rajkhowa, Dr Robert J Marano, Prof Marcus D Atlas
Approved Project Title **Engineering a silk fibroin based ear drum with optimum acoustic properties**

2011		\$51,000.00
2012		\$102,500.00
2013		\$106,000.00
2014		\$105,000.00
2015		\$50,500.00
Primary FoR	0912	MATERIALS ENGINEERING

Partner/Collaborating Organisation(s)

Ear Science Institute Australia Incorporated

Administering Organisation Deakin University

Project Summary

This project will use new silk fibroin materials to develop ear drums with improved acoustic properties. This will lead to significant improvement in the quality of life of nearly 2.5 million people in Australia who are affected by hearing loss and further strengthen Australia's leading position in this area.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

Monash University

LP110200275 Prof Greg J Bamber, Prof Fang Lee Cooke, Prof Edward J Snape

Approved Project Title **Human Resource Management (HRM) outsourcing and shared services: analysing changing approaches to HRM**

2011		\$25,500.00
2012		\$51,500.00
2013		\$52,500.00
2014		\$26,500.00
Primary FoR	1503	BUSINESS AND MANAGEMENT

Partner/Collaborating Organisation(s)

Victorian Department of Education and Early Childhood Development

Administering Organisation Monash University

Project Summary

Many public sector organisations have established centralised shared services centres or outsourced their Human Resource Management (HRM) to try to cut costs and improve performance. This project will investigate the many implications of such developments for Australian public-sector organisations, their managers and their employees.

LP110200747 Prof Raymond A Cas, Prof Ian H Campbell, Dr Yuri Amelin, Dr Roberto F Weinberg, Dr Michael T Wingate, Dr Wouter Bleeker

Approved Project Title **Prospectivity of late Archean basaltic and gabbroic rocks associated with major gold and base-metal deposits**

2011		\$75,000.00
2012		\$140,000.00
2013		\$130,000.00
2014		\$65,000.00
Primary FoR	0403	GEOLOGY

Partner/Collaborating Organisation(s)

Agnew Gold Mining Company, Geological Survey of Western Australia, Jabiru Metals Limited, Silverlake Resources Limited, St Ives Gold Mining Company (Pty)

Administering Organisation Monash University

Project Summary

This project will establish a new set of criteria for the discovery of hidden deposits of gold, lead, zinc, copper and silver in rock aged between 2.8 and 2.6 billion years old. In 2009, the mining of these deposits contributed \$5.5 billion dollars to Australia's export earnings and provided the financial backbone for many regional communities.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200334	Dr Judith L Charlton, Dr Sjaan N Koppel, Dr Christina M Rudin-Brown, Dr Kristy B Arbogast, Dr David W Eby, Ms Katarina E Bohman, Prof Mats Y Svensson, Prof Lotta Jakobsson	
Approved Project Title	Child safety in cars: an international collaboration	
2011		\$60,829.00
2012		\$125,731.00
2013		\$119,370.50
2014		\$54,468.50
Primary FoR	1605	POLICY AND ADMINISTRATION

Partner/Collaborating Organisation(s)

Autoliv Development AB, Britax Childcare Pty Ltd, Chalmers University of Technology, Sweden, General Motors-Holden's Automotive Ltd, Pro Quip International, RACV, The Children's Hospital of Philadelphia Research Institute, Transport Accident Commission (TAC), University of Michigan Transportation Research Institute, VicRoads

Administering Organisation Monash University

Project Summary

Car crashes are the leading cause of child death in Australia. While child restraints offer good protection, their benefits are significantly diminished if used incorrectly. This project will examine children's out-of-position during car trips and injury implications and will reduce injury through improved engineering and education solutions.

LP110200027	A/Prof Jonathan A Clough, Prof James R Ogloff, Mr Rudy Monteleone	
Approved Project Title	Asking the right questions: improving juror comprehension of judicial directions	

2011		\$57,000.00
2012		\$88,000.00
2013		\$58,222.00
2014		\$27,222.00
Primary FoR	1801	LAW

Partner/Collaborating Organisation(s)

Department of Justice, Victoria

Administering Organisation Monash University

Project Summary

Juror comprehension is fundamental to the role of juries in the criminal justice system. This project will comprehensively evaluate jurors' ability to comprehend both standard and modified judicial directions. Based on these results, 'model' processes for jury directions will be recommended, aimed at improving juror comprehension.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200119 Dr Alex Collie, Dr Adam P Vogel, Prof Helen M Keleher, Prof Roderick J McClure, Prof Alan R Petersen, Prof Niki Ellis
Approved Project Title **Determining the individual, community and societal impacts of compensable injury in Australia**

2011		\$43,759.50
2012		\$81,559.50
2013		\$105,600.00
2014		\$67,800.00
Primary FoR	1608	SOCIOLOGY

Partner/Collaborating Organisation(s)

Comcare , Transport Accident Commission (TAC), WorkSafe Victoria

Administering Organisation Monash University

Project Summary

This project will enhance our understanding of the individual, community and societal impacts of workplace and transport injury in Australia. The project will develop new impact measurement tools for application in workers' compensation and motor accident compensation schemes.

LP110200821 Dr Walid Daoud, Prof Ana Deletic, Dr David T McCarthy, A/Prof Timothy D Fletcher, Prof Jennifer A Davis, Dr Dushmanta Dutta, Prof Stanley B Grant
Approved Project Title **Advancing passive greywater treatment at household scale**

2011		\$37,500.00
2012		\$75,000.00
2013		\$75,000.00
2014		\$37,500.00
Primary FoR	0907	ENVIRONMENTAL ENGINEERING

Partner/Collaborating Organisation(s)

Global Energy Solutions Pty Ltd

Administering Organisation Monash University

Project Summary

Water recycling is increasingly encouraged in drought stricken Australia. The project aims to develop more energy efficient and less chemically driven treatment using passive processes to recycle greywater. The project will help in establishing sustainable communities across Australia and establish Australia as a world leader in water sustainability.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200927 Dr Bruno David, Dr Ian J McNiven, Dr Christopher J Clarkson, Prof Jean-Michel Geneste, Prof Jean-Jacques Delannoy, Dr Hugues Plisson

Approved Project Title **Archaeology of rock art in Jawoyn country, western Arnhem Land**

2011		\$50,000.00
2012		\$125,000.00
2013		\$150,000.00
2014		\$125,000.00
2015		\$50,000.00
Primary FoR	2101	ARCHAEOLOGY

Partner/Collaborating Organisation(s)

Jawoyn Association Aboriginal Corporation

Administering Organisation Monash University

Project Summary

This project will systematically study the rock art of Jawoyn country, Arnhem Land. It aims to reveal the age and associated archaeological contexts of some of Australia's most popular rock art traditions, feeding the results back to both academic circles and the nation's high exposure domestic and international tourism market.

LP110200049 Prof Maurice Eisenbruch, Prof David P Chandler, Mr Willem van de Put, Dr Sotheara Chhim, Prof Dr Gregory H Stanton, Prof Dr Alexander Hinton, Prof Dr Ivan H Komproe, Dr Mark Jordans, A/Prof Ing-Britt Trankell, A/Prof Jan Ovesen

Approved Project Title **Angulimala walks - from understanding violence in Cambodia to building cultural competence in Australian international development**

2011		\$40,000.00
2012		\$80,000.00
2013		\$95,000.00
2014		\$55,000.00
Primary FoR	1601	ANTHROPOLOGY

Partner/Collaborating Organisation(s)

Child Wise, HealthNet TPO, Oxfam Australia, Royal University of Phnom Penh, Transcultural Psychosocial Organization of Cambodia

Administering Organisation Monash University

Project Summary

The purpose of this project is to make sure that people affected by violence in formerly war-torn countries like Cambodia (including those who migrated to Australia) are helped in culturally appropriate ways. The project will lead to a framework for 'cultural competence' to be used by Australia's international development and health sectors.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200002 Dr Kirsten A Ellis, Dr Louisa J Willoughby, A/Prof Julie Fisher, Dr Nicole J Rinehart, Mr Neil B Ray

Approved Project Title **Acquiring physical skills: exploiting games technology to teach sign language**

2011		\$33,912.00
2012		\$68,235.00
2013		\$57,645.50
2014		\$23,322.50
Primary FoR	1303	SPECIALIST STUDIES IN EDUCATION

Partner/Collaborating Organisation(s)

Deaf Children Australia, Victorian Deaf Society

Administering Organisation Monash University

Project Summary

This project will investigate if games technology can be used to teach deaf children's parents sign language. The learner would create a sign, the system would assess the accuracy of the sign and provide feedback to improve learning. If successful, the system would provide an inexpensive alternative to learning sign language.

LP110200973 Prof Gil B Garnier, Dr Wei Shen

Approved Project Title **Cellulosic and paper-based biosensors for blood analysis**

2011		\$75,000.00
2012		\$150,000.00
2013		\$165,000.00
2014		\$165,000.00
2015		\$150,000.00
2016		\$75,000.00
Primary FoR	0912	MATERIALS ENGINEERING

Partner/Collaborating Organisation(s)

Lateral Grifols Pty Ltd

Administering Organisation Monash University

Project Summary

Testing the blood compatibility of an Australian evacuated for surgery; measuring the iron content from India for anemia treatment; identifying the outbreak of malaria in Pakistan; measuring prostate specific antigen/blood screening in your home. These are novel applications for paper biosensors, which will improve health and create new jobs in Australia.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200724	Dr Johnson George, Prof Michael J Abramson, Dr Billie Bonevski, Prof Michael J Dooley, Dr Simone E Taylor, Ms Susan Poole, Mr Gregory R Weeks	
Approved Project Title	Smoking cessation program for smokers admitted to public hospitals	
2011		\$93,871.50
2012		\$120,066.00
2013		\$42,055.50
2014		\$15,861.00
Primary FoR	1117	PUBLIC HEALTH AND HEALTH SERVICES

Partner/Collaborating Organisation(s)

Alfred Health, Austin Health, Barwon Health

Administering Organisation Monash University

Project Summary

This project will implement and evaluate a multidisciplinary healthcare intervention initiated by hospital pharmacists and followed up by primary health professionals to assist smokers admitted to three Victorian tertiary public hospitals to give up smoking. This program could potentially reduce smoking-related death, illness and healthcare costs.

LP110201169	Dr Tracy S Heng, Prof Richard L Boyd, Prof Silviu Itescu	
Approved Project Title	Dissecting the physiology of multipotent mesenchymal stromal cells to develop vaccine candidates for respiratory disease	
2011		\$62,500.00
2012		\$117,500.00
2013		\$115,000.00
2014		\$60,000.00
Primary FoR	1004	MEDICAL BIOTECHNOLOGY

APDI Dr Tracy S Heng

Partner/Collaborating Organisation(s)

Mesoblast

Administering Organisation Monash University

Project Summary

The project aims to gain an understanding of how a type of adult stem cell inhibits immune responses that cause asthma. The project will produce new stem cell products and facilitate the design of a vaccine for asthma and other respiratory diseases, which would greatly reduce the burden of such conditions.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200302 A/Prof Damon R Honnery, Dr Weixiang Shen, Dr Peduru H Dayawansa, Prof Ajay Kapoor, A/Prof Arthur de Bono, Prof Zhihong Man

Approved Project Title **From diesel to electric: a new era in personnel transport for underground coal mines**

2011		\$50,000.00
2012		\$100,000.00
2013		\$100,000.00
2014		\$50,000.00
Primary FoR	0902	AUTOMOTIVE ENGINEERING

Partner/Collaborating Organisation(s)

Industrea Ltd, Kestrel Coal Pty Ltd

Administering Organisation Monash University

Project Summary

There are many factors which give rise to poor air quality in underground coal mines with the diesel engines used to transport miners being one of the major contributors. This project will develop an alternative electric power system for these vehicles which will not only be zero emission but meet the challenging environment found in these mines.

LP110200699 Prof Daniel I Lubman, Dr Peter G Miller, Prof Robin G Room, Dr Belinda Lloyd, Ms Amy E Pennay

Approved Project Title **Alcohol and caffeinated energy drinks: exploring patterns of consumption and associated harms**

2011		\$32,337.00
2012		\$68,019.00
2013		\$67,249.00
2014		\$31,567.00
Primary FoR	1117	PUBLIC HEALTH AND HEALTH SERVICES

Partner/Collaborating Organisation(s)

Eastern Health, Victorian Department of Health

Administering Organisation Monash University

Project Summary

Very little research has been conducted on the functions, contexts, effects and harms associated with combining energy drinks and alcohol, despite the widespread consumption of these beverages by young people. This project will contribute to the knowledge base of this under-researched area and inform harm reduction policy and practice.

LP110200752 Dr Dena Lyras, Prof Julian I Rood, Dr Grant T Rawlin

Approved Project Title **The development and evaluation of a new therapy for the prevention and treatment of bacterial infections in hospitals**

2011		\$82,500.00
2012		\$165,000.00
2013		\$165,000.00
2014		\$82,500.00
Primary FoR	0605	MICROBIOLOGY

Partner/Collaborating Organisation(s)

Immuron Limited

Administering Organisation Monash University

Project Summary

The technology used in this project will enable products to be developed from the Australian dairy industry which may safely provide protection and treatment for diarrhoea acquired in hospitals for which there are few effective options. The product will be cost effective and can be used as a public health tool to control outbreaks in those most susceptible to severe disease.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200469	Prof Kimbal G Marriott, A/Prof Robin A Russell, Ms Debra J Lewis	
Approved Project Title	Presenting graphics to blind students using a touchscreen interface extended with haptic and audio feedback	
2011		\$42,500.00
2012		\$85,000.00
2013		\$42,500.00
Primary FoR	0806	INFORMATION SYSTEMS

Partner/Collaborating Organisation(s)

Catholic Education Office of Melbourne, Jtribe Holdings Unit Trust, Victorian Department of Education and Early Childhood Development, Vision Australia

Administering Organisation Monash University

Project Summary

The project will develop a new device for the presentation of accessible graphics based on a touchscreen computer extended with haptic and audio feedback. The aim is to improve access to graphics and other two-dimensional information in the classroom by blind students.

LP110200061	Prof Graham N Meadows, Prof Scott B Patten, Dr Joarder Kamruzzaman, Dr Gour Karmakar, Prof Brett A Inder, Dr Lee Gordon-Brown, Dr Simon L Albrecht, Mr Peter Gibbs, A/Prof Fiona M McDermott	
Approved Project Title	Improving management decisions in mental health care through applications of advanced simulation modelling	
2011		\$28,500.00
2012		\$57,000.00
2013		\$63,500.00
2014		\$35,000.00
Primary FoR	1117	PUBLIC HEALTH AND HEALTH SERVICES

Partner/Collaborating Organisation(s)

Southern Health

Administering Organisation Monash University

Project Summary

Evidence to inform management decisions about the best way to structure mental health care services is currently lacking. This project will develop a simulation modelling tool that will allow managers to explore various service configurations in virtual reality, enabling predictions to be made about the cost and quality of care.

LP110200539	Prof Constant J Mews, Dr Peter F Howard, Dr Anne M Scott, Dr Janice M Pinder, Dr Claire F Renkin, Father Paul R Murray	
Approved Project Title	Imagining Poverty: conceptualising and representing poverty and the poor in mendicant inspired literature, preaching and visual art 1220-1520	
2011		\$15,000.00
2012		\$30,000.00
2013		\$15,000.00
Primary FoR	2103	HISTORICAL STUDIES

Partner/Collaborating Organisation(s)

Dominican Province of the Assumption , Franciscan Friars Province of the Holy Spirit

Administering Organisation Monash University

Project Summary

This project explores understandings and representation of poverty, both voluntary and involuntary, in literature and art in Europe 1220-1520 that were inspired by mendicant (particularly Franciscan and Dominican) ideals. It will lead to a jointly authored study on the different ways poverty was understood and represented in this period.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200333 Prof Robert N Pike, Prof James C Whisstock, Dr Jiangning Song, Dr Tracey L Mynott

Approved Project Title **Characterisation of plant cysteine proteases with therapeutic potential**

2011		\$55,000.00
2012		\$100,000.00
2013		\$90,000.00
2014		\$45,000.00
Primary FoR	0601	BIOCHEMISTRY AND CELL BIOLOGY

Partner/Collaborating Organisation(s)

Sarantis Limited

Administering Organisation Monash University

Project Summary

This project aims to uncover how plant enzymes have effects on the immune system. This will allow the development of these enzymes as therapeutic agents for cancer and autoimmune conditions.

LP110200572 Dr Richard D Reina, Dr Terence I Walker

Approved Project Title **Immediate and delayed changes to survival, physiology, reproduction and movement of chondrichthyans following capture stress**

2011		\$50,000.00
2012		\$88,000.00
2013		\$80,500.00
2014		\$42,500.00
Primary FoR	0602	ECOLOGY

Partner/Collaborating Organisation(s)

Australian Fisheries Management Authority, Department of Primary Industries (Victoria), Melbourne UnderWater World

Administering Organisation Monash University

Project Summary

Many sharks and rays are negatively affected by the impact of fisheries capture, with unknown consequences. The project will measure changes to survival, physiology, reproduction and behaviour following capture to better understand and manage the impact of fisheries on these animals. This information is vital for their effective conservation.

LP110200377 Prof Peter J Scammells, Dr Bim Graham, Dr Campbell Scott

Approved Project Title **New methodology for the manufacture of opioid pharmaceuticals and the discovery of novel opiate receptor ligands**

2011		\$35,000.00
2012		\$70,000.00
2013		\$70,000.00
2014		\$35,000.00
Primary FoR	0305	ORGANIC CHEMISTRY

Partner/Collaborating Organisation(s)

GlaxoSmithKline

Administering Organisation Monash University

Project Summary

Semi-synthetic opiates are important analgesic agents and are used in the treatment of alcohol and opiate dependence. This project will focus on the application of new, greener and more efficient methods for the preparation of these medicinal agents.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200017 Dr Paul J Sunnucks, A/Prof Mark Lintermans, Dr Carla M Sgro, A/Prof Luciano B Beheregaray, Prof Fred W Allendorf, Mr Jarod Lyon, Dr Gordon Luikart

Approved Project Title **Genomics for persistence of Australian freshwater fish**

2011		\$92,500.00
2012		\$152,500.00
2013		\$130,000.00
2014		\$70,000.00
Primary FoR	0604	GENETICS

Partner/Collaborating Organisation(s)

ACTEW CORPORATION, Fisheries Victoria, Melbourne Water, University of Montana, Victorian Department of Sustainability and Environment

Administering Organisation Monash University

Project Summary

Biodiversity faces an unpredictable cocktail of impacts and global environmental change, against which the best insurance is genetic diversity. We will develop genomic measures of ecological-genetic functions and evolutionary potential for managing Australian freshwater fish.

LP110200711 A/Prof Christopher J Trotter, A/Prof David L Dowe

Approved Project Title **Collaborative family work in youth justice: a model for reducing recidivism in young offenders**

2011		\$15,000.00
2012		\$30,000.00
2013		\$30,000.00
2014		\$15,000.00
Primary FoR	1607	SOCIAL WORK

Partner/Collaborating Organisation(s)

NSW Department of Human Services (Juvenile Justice)

Administering Organisation Monash University

Project Summary

This project will research the effect of group family counselling on outcomes for juvenile offenders. It will draw conclusions about the factors related to successful family work and could significantly reduce re-offending in the juvenile justice population.

LP110200526 A/Prof Jihua C Zhu, Prof Helen De Cieri, Prof Peter J Dowling, Prof Zhen Xiong Chen, Dr Mingqiong Zhang

Approved Project Title **Managing human resources in an advanced economy from the perspective of emerging Chinese multinationals: the case of NWII in Australia**

2011		\$28,500.00
2012		\$54,000.00
2013		\$51,000.00
2014		\$25,500.00
Primary FoR	1503	BUSINESS AND MANAGEMENT

Partner/Collaborating Organisation(s)

Northwest Nonferrous International Investment Company Limited

Administering Organisation Monash University

Project Summary

This project will investigate human resource management practices in the resources sector in Australia and China. The outcomes of this study will provide important theoretical and operational insights into Chinese foreign direct investment for stakeholders such as the Australian government, community, employees and their representatives.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

RMIT University

LP110200321 A/Prof Serdar Boztas, Dr Asha Rao, Prof Kathryn J Horadam, Dr Steve Versteeg, Dr Carrie Gates

Approved Project Title **A fast and effective automated insider threat detection and prediction system**

2011		\$42,500.00
2012		\$85,000.00
2013		\$85,000.00
2014		\$42,500.00
Primary FoR	0801	ARTIFICIAL INTELLIGENCE AND IMAGE PROCESSING

Partner/Collaborating Organisation(s)

Computer Associates

Administering Organisation RMIT University

Project Summary

Threats from insiders directly compromises the security, privacy and integrity of Australian e-commerce, large databases and communication channels. This project will provide an essential step in combating this criminal activity by developing methods to detect such threats and secure the public's information against exposure and identity theft.

LP110200802 A/Prof Peter H Wilson, Prof David H Shum, A/Prof Patrick R Thomas

Approved Project Title **Resonance: a digital media art work for cooperative group interaction in the rehabilitation of acquired brain injury**

2011		\$15,000.00
2012		\$30,000.00
2013		\$30,000.00
2014		\$15,000.00
Primary FoR	0801	ARTIFICIAL INTELLIGENCE AND IMAGE PROCESSING

Partner/Collaborating Organisation(s)

Australia Council

Administering Organisation RMIT University

Project Summary

The project, titled 'resonance', encompasses the design and development of an interactive multimedia artwork for rehabilitation of Acquired Brain Injury (ABI). The artwork will promote cooperative group interaction between patients, enhancing their motor and cognitive recovery.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

Swinburne University of Technology

LP110200314 Prof Russell Kenley, Prof Keith D Hampson, Prof Erhan Kozan, Mr Darren J Bilsborough

Approved Project Title **Greening procurement of infrastructure construction: optimising mass-haul operations to reduce greenhouse gas emissions**

2011	\$60,000.00
2012	\$120,000.00
2013	\$110,000.00
2014	\$50,000.00
Primary FoR	1202 BUILDING

Partner/Collaborating Organisation(s)

John Holland Pty Ltd, Main Roads Western Australia, NSW Roads and Traffic Authority, Parsons Brinckerhoff (PB) Australia, QLD Department of Transport and Main Roads

Administering Organisation Swinburne University of Technology

Project Summary

This project will develop and prototype tools to reduce the high environmental impact of mass haul operations in road and rail infrastructure projects. Both contractors and clients need practical methods for calculating, optimising and procuring optimal solutions, because mass haul is one of the few areas where a contractor can reduce carbon dioxide impact.

LP110200499 Dr Richard Manasseh, A/Prof Sally L McArthur, Dr Pablo Juliano, Dr Raymond F Mawson

Approved Project Title **Ultrasonic production of skim milk**

2011	\$50,000.00
2012	\$100,000.00
2013	\$100,000.00
2014	\$50,000.00
Primary FoR	0915 INTERDISCIPLINARY ENGINEERING

Partner/Collaborating Organisation(s)

Geoffrey Gardiner Dairy Foundation Limited

Administering Organisation Swinburne University of Technology

Project Summary

Milk will be skimmed using ultrasonic waves and tiny bubbles that separate the fat droplets from whole milk, saving energy and cleaning costs. It will also be possible to precisely select different nutritional compounds from the rich resource that is whole milk, enabling future health products.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200550 Prof Denise L Meredyth, Dr Ian G McShane, Dr Jerry Watkins
Approved Project Title **Opportunity spaces - community engagement in the planning, use and governance of shared school facilities**

2011		\$15,000.00
2012		\$30,000.00
2013		\$30,000.00
2014		\$15,000.00
Primary FoR	1608	SOCIOLOGY

Partner/Collaborating Organisation(s)

Victorian Department of Education and Early Childhood Development

Administering Organisation Swinburne University of Technology

Project Summary

This project will capitalise on investment across Australia in renewing schools and building community education precincts. The work will illuminate the role played by civic infrastructure in community building, the benefits of coordinating social and educational services, and the potential of schools as learning resources for the whole community.

LP110200440 Dr Ellie Rennie, Prof Julian Thomas, Ms Alyson J Wright
Approved Project Title **Home internet for remote Indigenous communities**

2011		\$33,936.50
2012		\$68,330.50
2013		\$50,179.50
2014		\$15,785.50
Primary FoR	1605	POLICY AND ADMINISTRATION

Partner/Collaborating Organisation(s)

Australian Communications Consumer Action Network, Central Land Council, Centre for Appropriate Technology

Administering Organisation Swinburne University of Technology

Project Summary

While mainstream communications policies focus on the home, programs for remote Indigenous communities rely on shared community facilities. This project will analyse the benefits and complexities of home internet in three remote Indigenous communities by examining the social, economic, cultural and technical factors influencing take-up and use.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

The University of Melbourne

LP110200313 A/Prof Ruth I Beilin, Dr Simone L Blair, Dr Claire B Campbell, Dr Kevin G Tolhurst, Dr Gordon R Friend, Ms Robyn J Betts

Approved Project Title **Incendiary cultures: co-constructing resilience to engage with fire and risk in landscape management**

2011		\$43,422.50
2012		\$86,922.50
2013		\$87,000.00
2014		\$43,500.00
Primary FoR	1608	SOCIOLOGY

Partner/Collaborating Organisation(s)

Office of the Emergency Services Commissioner, Victorian Department of Sustainability and Environment

Administering Organisation The University of Melbourne

Project Summary

Effective communication and management of bushfire risk can be hindered by wide divergence between expert views and community understandings. Building on resilience theory, this project will draw together experts from fire agencies and local communities to rethink fire from modelling to combat, and from resisting to engaging in response activities.

LP110200480 Prof Sharon J Bell, Prof Lyn S Yates

Approved Project Title **Women in the scientific research workforce: identifying and sustaining the diversity advantage**

2011		\$21,738.00
2012		\$50,928.00
2013		\$44,252.00
2014		\$15,062.00
Primary FoR	1303	SPECIALIST STUDIES IN EDUCATION

Partner/Collaborating Organisation(s)

Bio21 Cluster, Federation of Australian Science and Technology Societies, Royal Australian Chemical Institute

Administering Organisation The University of Melbourne

Project Summary

This project, anchored in the strategically important fields of biomedical research and chemistry related industries, will use longitudinal data analysis and industry case studies to extend knowledge of gender differences in scientific career paths and critical career transitions. This will produce a body of Australian data that will allow benchmarking and theory development against comparable, recent international studies and provide industry with tools to build and sustain diversity.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200194	Dr Richard G Benyon, A/Prof Patrick N Lane, Prof George A Kuczera, Mr Dominik Jaskierniak, Dr Shane R Haydon	
Approved Project Title	New methods for mapping variation in forest water use in time and space	
2011	\$69,500.00	
2012	\$131,500.00	
2013	\$134,500.00	
2014	\$84,500.00	
2015	\$12,000.00	
Primary FoR	0406	PHYSICAL GEOGRAPHY AND ENVIRONMENTAL GEOSCIENCE

APDI Mr Dominik Jaskierniak

Partner/Collaborating Organisation(s)

Melbourne Water Corporation

Administering Organisation The University of Melbourne

Project Summary

Disturbance of eucalypt forests can have dramatic impacts on catchment water yields. In partnership with Melbourne Water Corporation, this project will develop and test new methods for accurate mapping of variation in water use across forested water supply catchments and for accurately determining the effects of this on water supplies.

LP110200144	Prof Mark Considine, Dr Siobhan B O'Sullivan	
Approved Project Title	Increasing innovation and flexibility in social service delivery	

2011	\$51,190.00	
2012	\$94,056.00	
2013	\$91,414.50	
2014	\$48,548.50	
Primary FoR	1605	POLICY AND ADMINISTRATION

APDI Dr Siobhan B O'Sullivan

Partner/Collaborating Organisation(s)

Jobs Australia Ltd, National Employment Services Association, Westgate Community Initiatives Group (WCIG)

Administering Organisation The University of Melbourne

Project Summary

This project will use a comparative methodology to investigate how contracted social services require careful regulation to ensure service effectiveness and improved organisational capacity. The outcome will include a practice model for understanding the relationship between regulation, contract structure and forms of service delivery innovation.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200570 Prof David E Dunstan, Dr Gregory J Martin, Prof Vicki Chen, Dr Dalton J Harvie, A/Prof Malcolm R Davidson, Dr Elankovan Ponnampalam

Approved Project Title **A fundamental study of milk ultrafiltration**

2011		\$50,000.00
2012		\$100,000.00
2013		\$100,000.00
2014		\$50,000.00
Primary FoR	0904	CHEMICAL ENGINEERING

Partner/Collaborating Organisation(s)

Dairy Innovation Australia Ltd.

Administering Organisation The University of Melbourne

Project Summary

The Dairy Industry is one of Australia's largest domestic and export industries. The fundamental knowledge and models developed in this project will be used to optimise dairy membrane processing. This will reduce water and energy use to improve the global competitiveness and reduce the environmental impact of the Australian Dairy Industry.

LP110200054 Dr Julie Evans, Dr Jennifer Balint, Dr Nesam McMillan, Dr Joanna R Cruickshank, Prof Patricia A Grimshaw, Ms Rachael Z Maza Long, Dr Elizabeth M Jones, Dr Jennifer L Bates, Prof Alan Lester, Dr Zoe Laidlaw, Miss Erin A Birch

Approved Project Title **Minutes of Evidence project: promoting new and collaborative ways of understanding Australia's past and engaging with structural justice**

2011		\$85,000.00
2012		\$170,000.00
2013		\$145,000.00
2014		\$60,000.00
Primary FoR	2103	HISTORICAL STUDIES

Partner/Collaborating Organisation(s)

Arts Victoria, ILBIJERRI Theatre Company, KOORIE HERITAGE TRUST INC, La Mama Inc, Regional Arts Victoria, State Library of Victoria, Victorian Aboriginal Education Association Incorporated, Victorian Department of Education and Early Childhood Development, Victorian Health Promotion Foundation

Administering Organisation The University of Melbourne

Project Summary

Bringing together researchers, theatre performers and education experts, this project heightens awareness of Australian history and sparks public conversations within, and between, Indigenous and non-Indigenous communities, placing Australia at the forefront of international ways of addressing the questions of structural justice and reconciliation.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200511 Dr Helen M Goldsworthy, Prof Emad Gad, Prof Brian Uy, Dr Saman Fernando
Approved Project Title **Development of efficient, robust and architecturally-flexible structural systems using innovative blind-bolted connections**

2011		\$42,500.00
2012		\$85,000.00
2013		\$85,000.00
2014		\$42,500.00
Primary FoR	0905	CIVIL ENGINEERING

Partner/Collaborating Organisation(s)

AJAX Engineered Fasteners, OneSteel Limited

Administering Organisation The University of Melbourne

Project Summary

The aim of the proposed project is to develop structural systems that have sufficient stiffness, strength, and ductility to withstand code-specified loads and that will be competitive in the marketplace. The development of demonstrable cost-effective structural systems is essential if these types of systems are to be widely adopted in practice, thus allowing Australian manufacturers of blind bolts and steel tubes to achieve a greater market share.

LP110200415 Dr Sally L Gras, A/Prof Sandra E Kentish, Prof Geoff W Stevens, Dr Ross Crittenden
Approved Project Title **The development of novel oligosaccharides from dairy lactose for improved infant nutrition**

2011		\$52,500.00
2012		\$102,500.00
2013		\$95,000.00
2014		\$45,000.00
Primary FoR	1003	INDUSTRIAL BIOTECHNOLOGY

Partner/Collaborating Organisation(s)

Murray Goulburn Co-operative Pty Ltd

Administering Organisation The University of Melbourne

Project Summary

This project will develop new milk sugars to enhance nutrition for the 46 per cent of infants who receive formula. It will support rural and regional dairy communities and manufacturers increasing innovation, potentially generating six million dollars in new sales per annum, increasing returns to farmers and promoting regional employment and spending.

LP110200211 Prof Richard M Huggins, Mr Jarod Lyon, Prof Richard J Barker
Approved Project Title **Assessing the impact of habitat restoration on the rates of recovery of four native fish species using advanced statistical models**

2011		\$15,000.00
2012		\$30,000.00
2013		\$30,500.00
2014		\$15,500.00
Primary FoR	0104	STATISTICS

Partner/Collaborating Organisation(s)

Arthur Rylah Institute

Administering Organisation The University of Melbourne

Project Summary

This project will develop statistical modelling tools to assess how quickly threatened native fish populations recover following habitat restoration. The outcome of this project will aid in understanding the use of habitat restoration in managing endangered stocks of Murray Cod, Trout Cod, Silver Perch and Golden Perch in the Murray River.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200595 A/Prof Spas D Kolev, Dr Vincent Pettigrove
Approved Project Title **Development of novel passive sampling devices for ammonia monitoring**

2011		\$42,500.00
2012		\$85,000.00
2013		\$85,000.00
2014		\$42,500.00
Primary FoR	0301	ANALYTICAL CHEMISTRY

Partner/Collaborating Organisation(s)

Melbourne Water Corporation

Administering Organisation The University of Melbourne

Project Summary

This project will develop novel inexpensive passive samplers for ammonia which is an indicator for faecal contamination in stormwater. These devices will increase dramatically the efficiency in isolating intermittent faecal contamination sources in drainage networks by eliminating the need for extensive manual sampling and inspection operations.

LP110200025 A/Prof Chris Manzie, Prof Andrew Ooi, Dr Nicholas Hutchins
Approved Project Title **Optimal design of controlled aerodynamic bodies: from concept to prototype**

2011		\$45,000.00
2012		\$90,000.00
2013		\$90,000.00
2014		\$45,000.00
Primary FoR	0915	INTERDISCIPLINARY ENGINEERING

Partner/Collaborating Organisation(s)

BAE SYSTEMS Australia

Administering Organisation The University of Melbourne

Project Summary

This interdisciplinary project will deliver technological advances in the areas of fluid dynamics, control systems and optimisation. It utilises advanced knowledge in these areas to design manoeuvrable aerodynamic bodies and will have a direct effect on Australian defence capability.

LP110200495 Dr Yin C Paradies, Prof Kevin M Dunn, Prof Bernard Guerin, Dr Anne Pedersen, Dr Scott Q Sharpe, Dr Maria H Hynes
Approved Project Title **An exploration of the frequency, outcomes, enablers and constraints of bystander anti-racism**

2011		\$30,000.00
2012		\$56,000.00
2013		\$44,500.00
2014		\$18,500.00
Primary FoR	1608	SOCIOLOGY

Partner/Collaborating Organisation(s)

Australian Human Rights Commission, Victorian Equal Opportunity and Human Rights Commission, Victorian Health Promotion Foundation

Administering Organisation The University of Melbourne

Project Summary

Bystander anti-racism involves ordinary people speaking up and taking prosocial action when witnessing racism. This project will develop empirical understandings of this underexplored, yet potentially powerful, form of anti-racism, including its frequency, the outcome of action, and factors that enable and constrain bystander anti-racism.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200543 A/Prof Laura J Parry, A/Prof Helena C Parkington, Dr Marianne Tare, A/Prof Mary E Wlodek

Approved Project Title **Novel anti-ageing peptides in the vascular system**

2011		\$57,500.00
2012		\$112,500.00
2013		\$110,000.00
2014		\$55,000.00
Primary FoR	0606	PHYSIOLOGY

Partner/Collaborating Organisation(s)

Novartis Pharma AG

Administering Organisation The University of Melbourne

Project Summary

The project will substantially improve basic understanding of the ageing process in blood vessels and provide scientific evidence to understand what preventative health care measures might work and why. It will also produce highly skilled and practically trained graduates, ready to contribute to the health industry.

LP110200178 A/Prof Abbas Rajabifard, Prof Ian P Williamson, Dr Tuan D Ngo

Approved Project Title **Land and property information in 3D**

2011		\$57,500.00
2012		\$115,000.00
2013		\$115,000.00
2014		\$57,500.00
Primary FoR	0909	GEOMATIC ENGINEERING

Partner/Collaborating Organisation(s)

VEKTA PTY LTD, ALEXANDER & SYMONDS , Department of Sustainability and Environment, Victoria., FENDER KATSALIDIS ARCHITECTS, Intergovernmental Committee On Surveying & Mapping, Land and Property Management Authority NSW, Owners Corporation Victoria, PSMA Australia Ltd

Administering Organisation The University of Melbourne

Project Summary

Australia's population growth results in multiple uses and stacked villages in 3-dimensional (3D) arrays of buildings and facilities in cities. This project will facilitate use of 3D technologies to support the land market, streamline legal requirements, decrease delays and reduce costs for designing, planning, building and managing modern cities.

LP110200035 Dr Gwyn Rees, Prof Jill E Keeffe, Dr Robin J Casten, Dr Mark Hegel, A/Prof Eric A Finkelstein, Dr Jing Xie, A/Prof David J Mellor

Approved Project Title **Integrated depression management: a trial of a new model of care in a low vision rehabilitation setting**

2011		\$90,000.00
2012		\$129,000.00
2013		\$107,000.00
2014		\$68,000.00
Primary FoR	1701	PSYCHOLOGY

Partner/Collaborating Organisation(s)

Beyondblue: the national depression initiative, Vision Australia

Administering Organisation The University of Melbourne

Project Summary

The project will integrate depression management into Vision Australia services and evaluate the impact of this new model of care. We anticipate that this new approach will lead to sustained improvements in clients' quality of life.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200319 A/Prof Ann Roberts, Dr Luke P Maguire, Prof Paul Mulvaney, Mr Wayne K Jackson
Approved Project Title **Nanophotonic metamaterials as anti-counterfeit devices in Australian banknotes**

2011		\$59,008.50
2012		\$110,435.00
2013		\$106,211.00
2014		\$54,784.50
Primary FoR	0205	OPTICAL PHYSICS

Partner/Collaborating Organisation(s)

Reserve Bank of Australia

Administering Organisation The University of Melbourne

Project Summary

This project will demonstrate the application of novel materials as the basis for next generation security features on banknotes. Such elements play a key role in maintaining the integrity of Australia's currency since they present a significant barrier to counterfeiting.

LP110200520 A/Prof Andrew W Western, Dr Dongryeol Ryu, Prof Jeffrey P Walker, Mr James F Elliott, Mr Chris Leahy, Dr Wade T Crow, Dr Quan J Wang, Dr Thomas C Pagano, Dr Luigi J Renzullo
Approved Project Title **A new-generation flood forecasting system using observations from space**

2011		\$33,251.00
2012		\$67,001.50
2013		\$53,750.50
2014		\$20,000.00
Primary FoR	0406	PHYSICAL GEOGRAPHY AND ENVIRONMENTAL GEOSCIENCE

Partner/Collaborating Organisation(s)

Australian Bureau of Meteorology, United States Department of Agriculture Agricultural Research Service Hydrology and Remote Sensing Laboratory

Administering Organisation The University of Melbourne

Project Summary

Floods are dangerous and expensive, costing Australia more than any other cause of natural disaster. This project will use satellite measurements of soil moisture and rainfall along with computer models to improve the Bureau of Meteorology's predictions of floods in rivers. Better flood forecasts will reduce costs and save lives.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

University of Ballarat

LP110200888 Prof Erica Smith, A/Prof Ian L Hampson, A/Prof Anne M Junor, Prof Andrew Smith

Approved Project Title **Recognising the skill in jobs traditionally considered unskilled**

2011		\$22,500.00
2012		\$45,000.00
2013		\$45,000.00
2014		\$22,500.00
Primary FoR	1301	EDUCATION SYSTEMS

Partner/Collaborating Organisation(s)

LIQUOR HOSPITALITY & MISCELLANEOUS UNION NATIONAL COUNCIL, Manufacturing Skills Australia, Service Skills Australia

Administering Organisation University of Ballarat

Project Summary

Some jobs are regarded as skilled and others as unskilled, yet all jobs contain skill. This project will examine under-recognised and undervalued skills in the service and manufacturing sectors, and explores the implications of these findings for government policy, the training system, companies and workers.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

Victoria University

LP110200629 Prof Beverley F Jackling, Dr Sally A Weller, Prof Paul de Lange, Prof Graeme L Wines, Dr James R Faulconbridge

Approved Project Title **How migration reshapes labour markets: a study of professional service firms**

2011		\$22,635.00
2012		\$43,205.50
2013		\$41,255.50
2014		\$20,685.00
Primary FoR	1503	BUSINESS AND MANAGEMENT

Partner/Collaborating Organisation(s)

Adult Multicultural Education Services, National Institute of Accountants

Administering Organisation Victoria University

Project Summary

Australia needs skilled migration to maintain its economic growth and replenish its skill base as the population ages. It needs the skills of migrant accountants. This project will identify the barriers migrants face when seeking work in the financial services industry and discover how migration is changing the financial services labour market.

LP110200528 Prof Pauline M Stanton, Mr Richard H Gough, Prof Greg J Bamber, Prof Sandra G Leggat, Dr Timothy K Bartram, Prof Amrik S Sohal, Prof Danny Liew

Approved Project Title **Work process change in hospital services**

2011		\$22,464.50
2012		\$47,776.00
2013		\$44,894.50
2014		\$19,583.00
Primary FoR	1503	BUSINESS AND MANAGEMENT

Partner/Collaborating Organisation(s)

Alberta Health Services Corporate Office , Melbourne Health

Administering Organisation Victoria University

Project Summary

This project will compare how process re-engineering methods, such as Lean Management and Six Sigma, are implemented in hospitals in Australia and Canada and how they impact on staff and patient care.

**Summary of Successful Linkage - Projects Proposals for Funding to
Commence in 2011 by State and Organisation**

Queensland

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

Griffith University

LP110200309 Prof Catherine A Beavis, Dr Michael L Dezuanni, Dr Joanne A O'Mara, Dr Sarah Prestridge, Dr Leonie O Rowan, Prof Claire M Wyatt-Smith, Dr Jason A Zagami, Prof Yam San Chee

Approved Project Title **Serious play: using digital games in school to promote literacy and learning in the twenty first century**

2011		\$40,033.00
2012		\$69,856.50
2013		\$70,995.50
2014		\$41,172.00
Primary FoR	1302	CURRICULUM AND PEDAGOGY

Partner/Collaborating Organisation(s)

Lutheran Church of Australia QLD District - Pacific Lutheran College, MARYMOUNT PRIMARY SCHOOL , Merrimac State School , St Aidan's School Council Limited , St Catherine's Catholic Primary School, St Joseph's Nudgee College , St Laurence's College , Victorian Department of Education and Early Childhood Development

Administering Organisation Griffith University

Project Summary

Young Australian's social and cultural experiences are increasingly digital. This project will offer leadership to schools seeking to use and create games to improve student outcomes across subject areas, and will generate new knowledge about how students and teachers approach digital games and the kinds of literacy, learning and pedagogy they entail.

LP110200894 Dr Susan R Forde, Dr Kerrie-Ann M Foxwell-Norton, Prof Michael H Meadows

Approved Project Title **Our people, our pictures, our voices: community representations of the Queensland land rights struggle, 1966-2010**

2011		\$24,400.00
2012		\$53,793.50
2013		\$29,393.50
Primary FoR	1903	JOURNALISM AND PROFESSIONAL WRITING

Partner/Collaborating Organisation(s)

FAIRA Aboriginal Corporation , Northern Project Contracting Pty Ltd

Administering Organisation Griffith University

Project Summary

This project tells the story of the Queensland land rights struggle through the eyes of Indigenous participants, their media and the broader newspaper industry. Its key public outcome is a multi-faceted book on the land rights movement; and new methodological and critical media analysis contributions to community media research.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200261	Prof Elizabeth Kendall, Prof Steve Kisely, Mrs Carolyn E Ehrlich, Dr Elizabeth Crowe, A/Prof David R Crompton, Dr Kylie J Armstrong	
Approved Project Title	Improving the physical and oral health of people with severe mental illness: using Normalisation Process Theory to support new practices	
2011		\$76,058.50
2012		\$124,004.50
2013		\$122,293.00
2014		\$74,347.00
Primary FoR	1117	PUBLIC HEALTH AND HEALTH SERVICES

Partner/Collaborating Organisation(s)

General Practice Queensland, Queensland Health

Administering Organisation Griffith University

Project Summary

The physical health of people with severe mental illness is extremely poor, often due to inadequate attention to their health needs by health professionals in primary care and the public mental health system. This project will focus on how practices can be changed to improve the health of this population and increase their access to preventative healthcare.

LP110200229	Prof David M Lambert, Dr Barbara R Holland, Dr Craig D Millar, Mr Ruiqiang Li	
Approved Project Title	How will animals respond to climate change? A genomic approach	

2011		\$135,000.00
2012		\$240,000.00
2013		\$230,000.00
2014		\$125,000.00
Primary FoR	0599	OTHER ENVIRONMENTAL SCIENCES

Partner/Collaborating Organisation(s)

Beijing Genomics Institute

Administering Organisation Griffith University

Project Summary

This research will identify the genetic basis by which Adélie penguins in Antarctica have been able to respond to a dramatic 10 degree increase in temperature. The research will help us understand the biology of climate adaptation.

LP110200478	Prof Huib Schippers, Dr Brydie-Leigh Bartleet, Prof Michael S Balfour, Dr John G Rynne	
Approved Project Title	Captive Audiences: the impact of performing arts programs in Australian prisons	

2011		\$30,000.00
2012		\$60,000.00
2013		\$30,000.00
Primary FoR	1602	CRIMINOLOGY

Partner/Collaborating Organisation(s)

Corrections Victoria, SERCO GROUP

Administering Organisation Griffith University

Project Summary

The project Captive Audiences examines performing arts programs in Australian prisons in regard to the impact they have on the wellbeing of prisoners and their lives after imprisonment. The outcomes of the research will assist with the development, implementation and evaluation of future performing arts programs in Australian prisons.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200832 Prof Rodger B Tomlinson, A/Prof Michael Blumenstein, Dr Hamid Mirfenderesk
Approved Project Title **Application of artificial neural network in flood emergency decision support system**

2011	\$15,000.00
2012	\$30,000.00
2013	\$31,000.00
2014	\$16,000.00
Primary FoR	0905 CIVIL ENGINEERING

Partner/Collaborating Organisation(s)

Gold Coast City Council

Administering Organisation Griffith University

Project Summary

This project will develop a method for rapid estimation of flood water levels. This will increase the warning time for flood evacuation in small coastal catchments where traditional estimating techniques are too time-consuming.

James Cook University

LP110201093 Dr Susan G Laurance, Dr Stephen P Goosem, Prof Dr William F Laurance, Dr Noel Preece, Dr Rod J Fensham
Approved Project Title **Accelerating species richness gains and carbon sequestration in secondary regrowth in north Queensland**

2011	\$50,000.00
2012	\$105,000.00
2013	\$105,000.00
2014	\$50,000.00
Primary FoR	0502 ENVIRONMENTAL SCIENCE AND MANAGEMENT

Partner/Collaborating Organisation(s)

Biome 5 Pty Ltd, Queensland Herbarium, Wet Tropics Management Authority

Administering Organisation James Cook University

Project Summary

Tropical abandoned lands offer important opportunities to increase carbon storage and conserve biodiversity. However, natural forest regeneration is slow and frequently inhibited by woody weeds. The project will involve a collaboration between eminent tropical biologists and the carbon-industry to devise innovative strategies to accelerate restoration of degraded land.

LP110200240 Dr Lee F Skerratt, Dr Lee Berger, Prof Richard Speare, Mr Scott D Cashins, Dr Peter S Harlow, Dr David A Hunter
Approved Project Title **Using adaptive and innate immunity to chytridiomycosis to save amphibians from extinction**

2011	\$20,000.00
2012	\$40,000.00
2013	\$40,000.00
2014	\$20,000.00
Primary FoR	0707 VETERINARY SCIENCES

Partner/Collaborating Organisation(s)

NSW Office of Environment and Heritage, Zoological Parks Board of NSW

Administering Organisation James Cook University

Project Summary

Chytridiomycosis has been implicated in the decline or extinction of hundreds of frog species worldwide since its emergence in the 1970s. The goal of this project is to identify immune frogs for captive breeding and successful reintroduction, screen populations to predict their risk of decline and develop targeted vaccines.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

Queensland University of Technology

LP110200985 Prof Kenneth W Beagley, Dr Frank E Aldwell, A/Prof John G Askov

Approved Project Title **Development of an orally delivered genital herpes vaccine: targeting the reproductive tract using Liporale, a novel lipid-based adjuvant**

2011		\$21,000.00
2012		\$42,000.00
2013		\$42,000.00
2014		\$21,000.00
Primary FoR	1107	IMMUNOLOGY

Partner/Collaborating Organisation(s)

Immune Solutions Ltd

Administering Organisation Queensland University of Technology

Project Summary

This project will evaluate the potential of a novel lipid-based adjuvant platform, Liporale™, to induce protection against a model sexually transmitted infection, genital herpes, using an orally delivered vaccination approach. Currently 16 per cent of the world's population has been exposed to herpes and there is currently no effective vaccine available.

LP110200158 A/Prof Richard J Brown, A/Prof Zoran D Ristovski, Dr Yuantong Gu, Dr Rong Situ, A/Prof Godwin A Ayoko, Dr Dennis V De Pellegrin, Mr Raymond M Morgan, Prof Dr Heinz Burtscher

Approved Project Title **Optimising gaseous and particulate emissions from diesel engines**

2011		\$65,000.00
2012		\$115,000.00
2013		\$100,000.00
2014		\$50,000.00
Primary FoR	0913	MECHANICAL ENGINEERING

Partner/Collaborating Organisation(s)

LCR GROUP, Peak3 Pty Ltd

Administering Organisation Queensland University of Technology

Project Summary

About \$3.7 billion is spent annually in Australia on respiratory diseases. Diesel vehicle emissions of nano- and ultra-fine urban air particulate pollution are a significant factor in this disease. This project will directly address this problem by developing a technology to monitor and reduce diesel particulate emissions.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200330	A/Prof Marilyn A Campbell, Prof Desmond Butler, Prof Donna S Cross, Dr Barbara A Spears, Prof Sally M Kift, Prof Phillip T Slee, Mr Andrew E Knott	
Approved Project Title	A legally-informed intervention for schools to prevent and intervene in cases of cyberbullying	
2011		\$36,567.00
2012		\$54,570.00
2013		\$35,046.00
2014		\$17,043.00
Primary FoR	1801	LAW

Partner/Collaborating Organisation(s)

Australia and New Zealand Education Law Association Queensland Chapter, Brisbane Girls Grammar School, Emil Ford and Co, Macrossans Lawyers, Queensland Guidance and Counselling Association, Queensland Independent Education Union of Employees, Queensland Teachers Union of Employees

Administering Organisation Queensland University of Technology

Project Summary

Cyberbullying is a growing problem for young people as well as amongst adults in the workplace. This project will develop and trial a legally-informed intervention which will be delivered by young people in order to increase student, parent and teacher knowledge of the law to prevent and manage cyberbullying incidents.

LP110200375	Prof Peter I Corke, Dr Benjamin Upcroft, Prof Gordon F Wyeth, A/Prof Salah Sukkarieh	
Approved Project Title	Robotics for zero-tillage agriculture	

2011		\$82,500.00
2012		\$138,500.00
2013		\$112,000.00
2014		\$56,000.00
Primary FoR	0801	ARTIFICIAL INTELLIGENCE AND IMAGE PROCESSING

Partner/Collaborating Organisation(s)

Advanced Agricultural Systems

Administering Organisation Queensland University of Technology

Project Summary

This project will develop small agricultural robots to increase broad-acre crop production and reduce environmental impact. These robots will have advanced navigation capability, will cooperate to cover large areas and resupply themselves, while causing less soil damage and applying herbicide more intelligently.

LP110201004	Dr Timothy R Dargaville, Dr Gary K Shooter, Dr Tristan I Croll, Dr Brett G Hollier	
Approved Project Title	Investigation of the biology of insulin-like growth factor 1 and its derivatives for the development of new therapeutics	

2011		\$25,000.00
2012		\$50,000.00
2013		\$25,000.00
Primary FoR	0601	BIOCHEMISTRY AND CELL BIOLOGY

Partner/Collaborating Organisation(s)

Tissue Therapies Ltd

Administering Organisation Queensland University of Technology

Project Summary

This project will investigate the biology of insulin-like growth factor 1, a key molecule in growth, development and, in particular, the wound healing process. Its success will lead to improved treatments for non-healing (chronic) wounds and, potentially, new anti-cancer treatments.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200616 Prof Natalie Gallery, Prof Stephen G Corones, Prof Gerhard T Gallery, Dr Cameron J Newton
Approved Project Title **The value of financial planning advice - process and outcome effects on consumer well-being**

2011		\$55,611.00
2012		\$111,130.50
2013		\$113,611.00
2014		\$58,091.50
Primary FoR	1501	ACCOUNTING, AUDITING AND ACCOUNTABILITY

Partner/Collaborating Organisation(s)

Financial Services Council

Administering Organisation Queensland University of Technology

Project Summary

Knowledge of how financial advice contributes to consumer well-being is vital as industry and policy-makers strive to professionalise financial planning and enhance the quality of advice. Outcomes of this research project will inform policy debate and industry practices for improving the value of financial planning advice to consumers and their well-being.

LP110200389 Prof Glenn E Gardner, Prof Anne Gardner, Prof Sandy Middleton, Dr Julie Considine, Dr Cameron Hurst, Prof Phillip R Della, Prof Gerard J FitzGerald, Mr Luke A Christofis, Dr Andrew S Finckh, Dr Kevin Chu

Approved Project Title **A prospective evaluation of the impact of the nurse practitioner role on emergency department service and outcomes**

2011		\$17,620.00
2012		\$189,995.00
2013		\$235,969.00
2014		\$63,594.00
Primary FoR	1110	NURSING

Partner/Collaborating Organisation(s)

Department of Health (SA), Office of the Chief Nursing Officer, Queensland Health, The NSW Department of Health, Victorian Department of Health, WA Department of Health

Administering Organisation Queensland University of Technology

Project Summary

The local hospital emergency department (ED) is a prominent and highly utilised service in Australian communities but demand on EDs is increasing, resulting in significant service delays. This project will study the composition of ED clinical teams around Australia and their impact on improving the timeliness and quality of emergency clinical care.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200256 Prof Keith D Hampson, Dr Karen J Manley, Prof Rachel L Parker, Dr Joseph Voros, Prof Goran Roos

Approved Project Title **Leveraging research and development (R and D) for the Australian built environment**

2011		\$50,000.00
2012		\$87,500.00
2013		\$67,500.00
2014		\$30,000.00
Primary FoR	1503	BUSINESS AND MANAGEMENT

Partner/Collaborating Organisation(s)

Australian Institute of Commercialisation (QLD), Department of Public Works (Qld), Department of Treasury and Finance (WA), John Holland Pty Ltd, QLD Department of Transport and Main Roads, VTT Technical Research Centre of Finland

Administering Organisation Queensland University of Technology

Project Summary

This project will evaluate impacts, diffusion mechanisms and uptake of research and development (R and D) in the Australian building and construction industry. Building on a retrospective analysis and industry consultation, a future-focussed industry roadmap will be developed to establish R and D policies to inform and improve R and D investment effectiveness.

LP110200077 Dr Wilhelmina M Huston, Prof Kenneth W Beagley

Approved Project Title **Chemical inhibition: a new approach to investigate the role of a key protease, CtHtrA, from Chlamydia trachomatis**

2011		\$22,500.00
2012		\$45,000.00
2013		\$45,000.00
2014		\$22,500.00
Primary FoR	0605	MICROBIOLOGY

Partner/Collaborating Organisation(s)

The Wesley Research Institute

Administering Organisation Queensland University of Technology

Project Summary

Infertility in women frequently results from infection with Chlamydia trachomatis. This project will develop an inhibitor compound against a important protein from this bacteria. This will establish a new scientific approach to study Chlamydia trachomatis. This project will also contribute to the development of new treatments for infertility.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110201139	Prof Gerard F Ledwich, Prof Laurie R Buys, Prof Arindam Ghosh, Dr Michael T Wishart, Prof John M Bell	
Approved Project Title	Electricity demand side management: models, optimisation and customer engagement	
2011		\$70,000.00
2012		\$140,000.00
2013		\$140,000.00
2014		\$70,000.00
Primary FoR	0906	ELECTRICAL AND ELECTRONIC ENGINEERING

Partner/Collaborating Organisation(s)

Ergon Energy

Administering Organisation Queensland University of Technology

Project Summary

This project will develop methods for management of electricity demand, meeting both customer expectations and electricity network needs. Implementation of these demand-side management methodologies will significantly reduce the need for expenditure on electricity network upgrades and improve the value proposition for distributed renewable energy.

LP110200110	Dr Karen J Manley, Prof Derek H Walker	
Approved Project Title	Maximising the value of alliances in delivering infrastructure projects: a mixed methods management study of procurement innovation	
2011		\$71,500.00
2012		\$142,000.00
2013		\$140,500.00
2014		\$70,000.00
Primary FoR	1202	BUILDING

Partner/Collaborating Organisation(s)

Alliancing Association of Australasia

Administering Organisation Queensland University of Technology

Project Summary

Australia's new infrastructure is currently being delivered inefficiently. The project will take a novel approach to improving efficiency, focusing on cooperation within construction teams. The project will develop new mechanisms to align incentives and capabilities within construction teams.

LP110200368	Prof Stephen Ritchie, Dr Louisa Tomas, Dr Alberto Bellocchi, Dr Donna T King, Prof Kenneth G Tobin	
Approved Project Title	Emotional learning in socioscientific issues for enhancement of scientific literacy	
2011		\$36,000.00
2012		\$67,000.00
2013		\$64,000.00
2014		\$33,000.00
Primary FoR	1302	CURRICULUM AND PEDAGOGY

Partner/Collaborating Organisation(s)

City University of New York, Kedron State High School, Kirwan State High School, ST PAULS SCHOOL BALD HILLS

Administering Organisation Queensland University of Technology

Project Summary

This project will aim to address international concerns about waning student interest and participation in science by engaging middle school students imaginatively in socioscientific issues. Expected outcomes will enhance students' scientific literacy, and the production of positive emotional energy and the classroom emotional climate.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200082	Dr Maria A Woodruff, Dr Siamak Saifzadeh, Prof Ross W Crawford, Prof Molly M Stevens, Dr Matthew O'Donnell	
Approved Project Title	The development of new scaffolds for bone repair comprising polycaprolactone and strontium-substituted bioactive glasses	
2011		\$53,500.00
2012		\$102,000.00
2013		\$92,000.00
2014		\$43,500.00
Primary FoR	1004	MEDICAL BIOTECHNOLOGY

Partner/Collaborating Organisation(s)

Queensland Orthopaedic Research Trust, RepRegen Ltd

Administering Organisation Queensland University of Technology

Project Summary

The drive to develop bone grafts to fill major gaps in the skeleton, whilst circumventing the need to use permanent implants has led to a major research thrust towards developing biomaterials for bone-tissue engineering. The project will develop scaffolds with highly osteoconductive bioactive glasses in a polymer matrix for bone regeneration applications.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

The University of Queensland

LP110200444 Prof Bhesh R Bhandari, Dr Ranjan Sharma, Prof Andrew K Whittaker, Dr Martin V Palmer

Approved Project Title Nanostructured dairy powder for improved functionality

2011		\$50,000.00
2012		\$95,000.00
2013		\$87,500.00
2014		\$42,500.00
Primary FoR	0908	FOOD SCIENCES

Partner/Collaborating Organisation(s)

Dairy Innovation Australia Ltd

Administering Organisation The University of Queensland

Project Summary

More than 30 per cent of the total milk produced in Australia is converted to powder for export. This project will lead to improvement in the solubility, and hence shelf-life, of protein rich dairy powders which will be of significant economic benefit to the industry. This project will also benefit the wider scientific community in dairy and food sectors.

LP110200926 Prof Matthew A Brown, Prof Huji Xu, Prof Perry F Bartlett, Dr Robyn H Wallace, Prof Peter M Visscher, Prof Bryan J Mowry, Prof David C Reutens

Approved Project Title Sino-Australian neurogenetics initiative

2011		\$125,000.00
2012		\$215,000.00
2013		\$220,000.00
2014		\$130,000.00
Primary FoR	0604	GENETICS

Partner/Collaborating Organisation(s)

NuNerve Pty Ltd , Queensland Centre for Mental Health Research, Shanghai Changzheng Hospital

Administering Organisation The University of Queensland

Project Summary

This project will undertake large population studies to identify genes that are associated with motor neuron disease, schizophrenia and intracranial haemorrhage. The project will determine genetic markers, aid development of diagnostic tools and identify new therapeutic targets for these common heritable neurological diseases.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200030 Prof Victor J Callan, Dr Nicole A Gillespie, Dr Laura G Smith, Dr Neil Paulsen

Approved Project Title **Managing key professional transitions in the health sector**

2011		\$27,000.00
2012		\$62,000.00
2013		\$79,000.00
2014		\$73,000.00
2015		\$29,000.00
Primary FoR	1701	PSYCHOLOGY

Partner/Collaborating Organisation(s)

Royal Brisbane and Women's Hospital

Administering Organisation The University of Queensland

Project Summary

This project will examine how health professionals make effective transitions into their roles, and balance the tensions between maximising patient outcomes and managing efficiencies and budgets. Quality healthcare is an important issue for all Australians and the project contributes to improving outcomes for healthcare employees and their patients.

LP110200425 A/Prof Annemaree Carroll, Prof Robyn M Gillies, A/Prof Christina E van Kraayenoord, Mrs Julie M Bower

Approved Project Title **Investing in our disadvantaged youth: new school-wide approaches to understanding and improving school engagement and social connectedness**

2011		\$51,725.50
2012		\$101,787.50
2013		\$102,196.00
2014		\$52,134.00
Primary FoR	1303	SPECIALIST STUDIES IN EDUCATION

APDI Mrs Julie M Bower

Partner/Collaborating Organisation(s)

Qld Department of Education and Training

Administering Organisation The University of Queensland

Project Summary

This project will be the first to test a model of social connectedness to explain the contribution of social exclusion to long-term disadvantage of youths. The outcomes will be a sustainable professional learning program for school staff nationally and internationally and a school-based approach to promote the healthy development of Australian youths.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200213 Prof David J Craik, Prof David P Fairlie, Dr Spiros Liras, Dr David A Price

Approved Project Title **Innovations in peptide-based drug design**

2011		\$447,777.00
2012		\$831,636.00
2013		\$777,386.00
2014		\$393,527.00
Primary FoR	0304	MEDICINAL AND BIOMOLECULAR CHEMISTRY

Partner/Collaborating Organisation(s)

Pfizer Australia Pty Ltd

Administering Organisation The University of Queensland

Project Summary

This project will aim to develop new types of drugs that fill a gap between existing small molecule drugs, which are relatively inexpensive and stable, but often have side-effects, and biologics which are very expensive and require injection. Our new generation of peptide-based drugs promise to be applicable to diseases that are not treatable by current drugs.

LP110200318 Dr Lisa J Fitzgerald, A/Prof Andrea M Whittaker, Mr Shaun D Staunton, A/Prof Andrew Vallely, Mr Stephen M Lambert

Approved Project Title **Living positive in Queensland: a qualitative longitudinal study of aging, place and social isolation**

2011		\$32,506.50
2012		\$63,268.00
2013		\$63,023.00
2014		\$32,261.50
Primary FoR	1117	PUBLIC HEALTH AND HEALTH SERVICES

Partner/Collaborating Organisation(s)

Queensland Association for Healthy Communities, Queensland Health, Queensland Positive People Incorporated, The Corporation of the Synod of the Diocese of Brisbane

Administering Organisation The University of Queensland

Project Summary

The living positive in Queensland study will explore the lives of people living with HIV in Queensland. This project will aim to increase understanding of the experiences of people with HIV in relation to ageing and their support networks and will improve HIV service provision now and into the future.

LP110200957 Prof John Foster, A/Prof Hamish A McGowan, Prof Zhao Y Dong, Prof Tapan K Saha

Approved Project Title **An investigation of the impacts of increased power supply to the national grid by wind generators on the Australian electricity industry**

2011		\$70,000.00
2012		\$135,000.00
2013		\$130,000.00
2014		\$65,000.00
Primary FoR	1402	APPLIED ECONOMICS

Partner/Collaborating Organisation(s)

AGL Energy Ltd, Clean Energy Council Limited, Suzlon Energy Australia Pty Ltd , TRUenergy Pty Ltd, Vestas International Wind Technology A/S

Administering Organisation The University of Queensland

Project Summary

The aim of this project is to discover the most economical and effective way to accommodate large increases in wind power into the national grid and to understand the effects on the national electricity market. This is crucial to ensure stability of electricity supply and affordable prices in the transition towards a low carbon economy.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200214 Prof Peter J Halley, A/Prof Rowan W Truss, Prof Michael J Gidley
Approved Project Title **High performance thermoplastic starch polymer films for controlled barrier and delivery**

2011		\$50,000.00
2012		\$100,000.00
2013		\$100,000.00
2014		\$50,000.00
Primary FoR	0912	MATERIALS ENGINEERING

Partner/Collaborating Organisation(s)

Plantic Technologies Ltd

Administering Organisation The University of Queensland

Project Summary

This project will deliver state of the art developments in high performance sustainable plastics. Specifically the project will develop new biopolymers for high-performance applications, such as smart packaging, biomedical materials and drug delivery systems.

LP110200893 Prof Charmine E Härtel, Dr Sen Sendjaya, Dr Andre A Pekerti, Dr Giles Hirst, Ms Robyn Clark
Approved Project Title **Serving the greater good: using 'Servant Leadership' to build ethical and engaging work practices**

2011		\$45,672.00
2012		\$81,692.50
2013		\$78,282.00
2014		\$42,261.50
Primary FoR	1503	BUSINESS AND MANAGEMENT

Partner/Collaborating Organisation(s)

Victorian Department of Transport

Administering Organisation The University of Queensland

Project Summary

The project will result in the first organisational application in Australia of a leadership development program based on scientific foundations of the 'Servant Leadership' framework. The outcomes will benefit organisations of all types in developing the leadership capabilities required to create ethical, positive, and sustainable work environments.

LP110200423 Prof Karen E Healy, Dr Gai Harrison
Approved Project Title **A study of best practice in intervention with parental agreement: creating change with families in statutory child protection services**

2011		\$20,569.00
2012		\$41,998.50
2013		\$41,110.50
2014		\$19,681.00
Primary FoR	1607	SOCIAL WORK

Partner/Collaborating Organisation(s)

Micah Projects Inc, QLD Department of Communities

Administering Organisation The University of Queensland

Project Summary

This project will explore how parental agreements can be used in statutory child protection services as an alternative to more intrusive forms of intervention. Expected outcomes include better use of parental agreements to enhance the protection of children and promote the well-being of vulnerable families.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200874 Prof Ove Hoegh-Guldberg, A/Prof Sophie G Dove, Dr C. Mark Eakin, Mr Scott J Bainbridge, Dr Raymond W Berkelmans, Dr David R Wachenfeld

Approved Project Title **Next generation satellite tools for understanding change in coral reef ecosystems due to multiple global and local stressors**

2011	\$278,469.50
2012	\$550,597.00
2013	\$541,320.50
2014	\$522,851.00
2015	\$508,806.50
2016	\$255,148.50

Primary FoR 0501 ECOLOGICAL APPLICATIONS

Partner/Collaborating Organisation(s)

Great Barrier Reef Marine Park Authority, National Oceanographic and Atmospheric Agency

Administering Organisation The University of Queensland

Project Summary

Rapid changes in sea temperature and acidity are driving major changes in important ecosystems such as the Great Barrier Reef, putting at risk billions of dollars per annum in tourist and fishing earnings. This project will improve the satellite toolkit that the industry partners, Great Barrier Reef Marine Park Authority and National Oceanic and Atmospheric Administration, have at their disposal for responding to these serious threats.

LP110200800 A/Prof Han Huang, A/Prof Ming-Xing Zhang, Prof Andrejs Atrens

Approved Project Title **Surface engineering of cast magnesium alloys for innovative high performance packaging robots**

2011	\$57,000.00
2012	\$118,000.00
2013	\$123,500.00
2014	\$62,500.00

Primary FoR 0912 MATERIALS ENGINEERING

Partner/Collaborating Organisation(s)

Zen Automation Technology Pty Ltd

Administering Organisation The University of Queensland

Project Summary

High performance packaging robots are in significant demand in the food, medicine and cosmetics industries. This project will solve a critical problem in the development of such robots at low cost by the novel use of cast magnesium alloys, which will greatly increase productivity and decrease energy consumption through weight reduction.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200437 Prof Jolanda Jetten, Dr Catherine R Philpot, Dr Genevieve A Dingle, Dr Cameron S Parsell
Approved Project Title **Breaking the cycle of homelessness: an identity change approach to enhance resilience and well-being**

2011		\$22,061.50
2012		\$56,123.00
2013		\$58,123.00
2014		\$24,061.50
Primary FoR	1701	PSYCHOLOGY

Partner/Collaborating Organisation(s)

The Salvation Army (Queensland) Property Trust

Administering Organisation The University of Queensland

Project Summary

This project will explore the factors that contribute to the development of well-being and resilience among those who are homeless. We focus on the importance of social connections in enhancing resilience, well-being and breaking the cycle of homelessness. Findings will inform best practice guidelines and policy in emergency accommodation centres.

LP110200126 A/Prof Stephen M Mahler, Dr Trent P Munro, Dr Martina L Jones, Dr Jennifer MacDiarmid, Dr Himanshu Brahmhatt
Approved Project Title **Targeting the delivery of cytotoxic agents to tumour cells using novel minicells as drug delivery vehicles and engineered, bispecific antibodies**

2011		\$59,500.00
2012		\$119,000.00
2013		\$116,500.00
2014		\$57,000.00
Primary FoR	1004	MEDICAL BIOTECHNOLOGY

Partner/Collaborating Organisation(s)

EnGeneIC Limited

Administering Organisation The University of Queensland

Project Summary

Cancer persists as a major cause of morbidity and mortality globally. A major problem is the non-specific action of drugs used for treatment. The minicell is a drug delivery vehicle, capable of packaging a variety of drugs. The project will develop tumour-specific antibodies that will target minicells to tumours, improving cancer survival rates.

LP110200128 Prof John M Pandolfi, Dr Moyra E Wilson, Dr Michael K Gagan, Dr Willem Renema
Approved Project Title **Links between marine biotic evolution and carbonate platform and petroleum reservoir development in the South China sea**

2011		\$30,000.00
2012		\$60,000.00
2013		\$60,000.00
2014		\$30,000.00
Primary FoR	0403	GEOLOGY

Partner/Collaborating Organisation(s)

Pearl Energy Ltd, SE Asian Petroleum Exploration Society

Administering Organisation The University of Queensland

Project Summary

This project will aim to discover the major environmental controls over the historical development of the high biodiversity of Indo-Pacific coral reefs. By investigating fossils from rocky outcrops we will enhance the ability of petroleum companies to predict the occurrence of hydrocarbons in sub-surface reef limestones.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200293	Dr Yongjun Peng, Prof Deirdre J Bradshaw, Prof Roger S Smart	
Approved Project Title	Reducing the deleterious impacts of clay particle interactions with valuable minerals in copper and gold processing	
2011		\$40,000.00
2012		\$80,000.00
2013		\$80,000.00
2014		\$40,000.00
Primary FoR	0914	RESOURCES ENGINEERING AND EXTRACTIVE METALLURGY

Partner/Collaborating Organisation(s)

Newcrest Mining Ltd, Newmont Mining Corporation

Administering Organisation The University of Queensland

Project Summary

This project seeks to understand the rheological behaviour of clay minerals and the effect of the viscosity caused by clay minerals on gas dispersion, the transport of network structures and the locking of the structures in the froth in mineral flotation. Novel methods will be developed to improve flotation separation by reducing the viscosity.

LP110200793	Dr Jennifer M Seddon, Dr Jennifer R Ovenden, Dr Sandie M Degnan	
Approved Project Title	Genomic tools for the emerging tropical rock lobster aquaculture industry	
2011		\$67,500.00
2012		\$135,000.00
2013		\$135,000.00
2014		\$67,500.00
Primary FoR	0704	FISHERIES SCIENCES

Partner/Collaborating Organisation(s)

QLD Department of Employment, Economic Development and Innovation

Administering Organisation The University of Queensland

Project Summary

Australia has just developed the skills to farm tropical rock lobsters, a popular celebratory dish in Asia. Our project will boost this industry by developing genetic markers, which later can be used to choose the best stud lobsters for breeding.

LP110200891	A/Prof Cheryl F Tilse, Prof Jill E Wilson, A/Prof Benjamin P White, Prof Linda Rosenman	
Approved Project Title	Families and generational asset transfers: making and challenging wills in contemporary Australia	
2011		\$33,048.00
2012		\$75,896.00
2013		\$100,989.00
2014		\$58,141.00
Primary FoR	1699	OTHER STUDIES IN HUMAN SOCIETY

Partner/Collaborating Organisation(s)

NSW Trustee & Guardian, Public Trustee (SA), Public Trustee Western Australia, STATE TRUSTEES LIMITED (Vic), The Public Trustee Tasmania, The Public Trustee for the ACT, The Public Trustee of Queensland

Administering Organisation The University of Queensland

Project Summary

This project, in collaboration with Public Trust offices across Australia, will provide a national database on which sectors of the population fail to make wills and why. The results will inform innovative service models, law reform initiatives and public education campaigns.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200216 Dr Kathy A Townsend, Prof Justin N Marshall, Dr Christopher V Wilcox, Dr Britta D Hardesty
Approved Project Title **Identifying the risks and assessing the impacts of marine debris on sea turtles in Australian waters**

2011		\$87,500.00
2012		\$157,500.00
2013		\$145,000.00
2014		\$75,000.00
Primary FoR	0502	ENVIRONMENTAL SCIENCE AND MANAGEMENT

Partner/Collaborating Organisation(s)

Earthwatch Institute, Healthy Waterways , Samford Valley Veterinary Hospital, Underwater World Mooloolaba

Administering Organisation The University of Queensland

Project Summary

Marine debris is a significant global issue, with the amount of waste released into our oceans growing exponentially each year. Preliminary work in Australia has shown that entanglement and ingestion of debris is a serious threat to endangered sea turtles. The project aims to determine the impact debris is having and provide ways to reduce this impact.

LP110200701 Dr Karen M Turner, Prof Matthew R Sanders, Dr Alina Morawska, Mr William Hayward
Approved Project Title **Assessing the effectiveness, acceptability and sustainability of a culturally adapted evidence-based intervention for Indigenous parents**

2011		\$59,963.00
2012		\$95,253.50
2013		\$122,008.50
2014		\$86,718.00
Primary FoR	1605	POLICY AND ADMINISTRATION

Partner/Collaborating Organisation(s)

Queensland Aboriginal and Torres Strait Islander Child Protection Peak Ltd

Administering Organisation The University of Queensland

Project Summary

This project will explore a partnership model for capacity building in Indigenous child protection services. It will also evaluate the effectiveness, acceptability and sustainability of a culturally adapted evidence-based parenting program designed to reduce family risk factors and child behavioural and emotional problems in Indigenous families.

LP110201102 Prof David J Williams, Dr Alexander Scheuermann, Dr Dorival d Pedroso, Dr Jim W Slatter, Dr Chris M Haberfield, Mr Allan J McConnell
Approved Project Title **Optimising the design, construction and cost-effectiveness of screw auger piles in fine-grained cohesive soils**

2011		\$40,000.00
2012		\$80,000.00
2013		\$75,000.00
2014		\$35,000.00
Primary FoR	0905	CIVIL ENGINEERING

Partner/Collaborating Organisation(s)

Golder Associates Pty Ltd, Insitu Geotech Services, Piling Contractors Pty Ltd

Administering Organisation The University of Queensland

Project Summary

The purpose of the project is to optimise the design, construction and effectiveness of screw auger piles used in fine-grained cohesive soils, through achieving an improved understanding of their behaviour and performance. The expected outcome is enhanced design and construction of such piles in these soils, and greater cost-effectiveness.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110201095 Prof Zhiguo Yuan, Dr Gene W Tyson, Dr Keshab Sharma, Dr Bing-Jie Ni, Dr Sudhir N Murthy
Approved Project Title **Methane and nitrous oxide emissions from sewers - understanding, modelling and mitigation**

2011		\$42,500.00
2012		\$85,000.00
2013		\$85,000.00
2014		\$42,500.00
Primary FoR	0907	ENVIRONMENTAL ENGINEERING

Partner/Collaborating Organisation(s)

Allconnex Water, District of Columbia Water and Sewer Authority, Melbourne Water, South East Water

Administering Organisation The University of Queensland

Project Summary

The research and industry partners will collaborate on this project to quantify, understand and mitigate emissions of methane and nitrous oxide in sewer networks. Both methane and nitrous oxide are potent greenhouse gases, and their emissions need to be accounted for and mitigated for the water industry to achieve greenhouse neutral water services.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

South Australia

The Flinders University of South Australia

LP110200079 Prof Julie Ratcliffe, Prof Mary A Luszcz, Prof Maria Crotty, Prof Janice (Jan) Paterson, Prof Leonard C Gray, Prof Ian D Cameron

Approved Project Title **A health economic model for the development and evaluation of innovations in aged care: an application to consumer directed care**

2011 \$59,156.50

2012 \$118,313.00

2013 \$118,313.00

2014 \$59,156.50

Primary FoR 1117 PUBLIC HEALTH AND HEALTH SERVICES

Partner/Collaborating Organisation(s)

Aged Care and Housing Group, Catholic Community Services, Hammond Care, Helping Hand Aged Care Inc

Administering Organisation The Flinders University of South Australia

Project Summary

This project will investigate the preferences, quality of life outcomes and cost effectiveness of a new consumer directed care approach to community aged care service delivery for older people. The applicability of a health economic model in the development and economic evaluation of innovations in aged care service delivery will be demonstrated.

LP110200446 Prof Nicolas H Voelcker, Prof Hilton J Kobus, Dr Maurizio Ronci, Dr Kenneth P Kirkbride, Dr Paul E Pigou

Approved Project Title **Forensic platform technologies for roadside and workplace testing based on nanostructured silicon chips**

2011 \$40,923.00

2012 \$81,846.00

2013 \$81,846.00

2014 \$40,923.00

Primary FoR 0301 ANALYTICAL CHEMISTRY

APDI Dr Maurizio Ronci

Partner/Collaborating Organisation(s)

Australian Federal Police, Forensic Science SA, National Institute of Forensic Science Australia, ANZPAA, New South Wales Police Force, South Australian Police

Administering Organisation The Flinders University of South Australia

Project Summary

Roadside drug testing has recently been incorporated into government legislation throughout Australia and abroad. The objective of this project is to develop advanced analysis technologies for implementing effective roadside and workplace testing. The availability of these technologies will increase the safety of Australian drivers and workers.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

The University of Adelaide

LP110200799 Prof Pavel Bedrikovetski, Prof Anthony J Roberts, A/Prof Andrei G Kotooussov, Prof Mark J Biggs, Prof Sheik S Rahman, Dr Yildiray Cinar, Dr Mark R Tingay, Dr Manouchehr Haghighi, A/Prof Phillip Pendleton, Dr John D Codrington, Mr Jose T Rodrigues, Mr Imran Abbasy

Approved Project Title **Novel technology for enhanced coal seam gas production utilising mechanisms of stimulated cleat permeability through graded particle injection**

2011		\$82,500.00
2012		\$130,000.00
2013		\$97,500.00
2014		\$50,000.00
Primary FoR	0914	RESOURCES ENGINEERING AND EXTRACTIVE METALLURGY

Partner/Collaborating Organisation(s)

Santos Ltd

Administering Organisation The University of Adelaide

Project Summary

This cross-disciplinary project will develop a new integrated technology for well productivity enhancement in coal seam gas, shale, tight gas and geothermal reservoirs - the world's fastest growing unconventional clean energy resources. It will improve our understanding of the multi scale physics of natural gas and energy production.

LP110200419 Prof Andrew P Beer, Prof Laurie R Buys, Prof Gill Lewin, Dr Rebecca Bentley, Prof Anthea M Tinker

Approved Project Title **Emerging from the shadows: the evaluation of intervention strategies to reduce social isolation amongst the aged**

2011		\$49,075.50
2012		\$84,075.50
2013		\$125,000.00
2014		\$90,000.00
Primary FoR	1605	POLICY AND ADMINISTRATION

Partner/Collaborating Organisation(s)

Anglicare SA Inc, Benetas, Council on the Ageing Queensland Inc, ECH Inc, Illawarra Retirement Trust, Silver Chain Nursing Association Incorporated

Administering Organisation The University of Adelaide

Project Summary

Social isolation imposes a high cost on affected individuals and the community at large. This project will determine what interventions work in addressing social isolation amongst the older population.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200820 A/Prof Peng Bi, Dr Ying Zhang, A/Prof Keith B Dear, A/Prof Dino L Pisaniello, Prof Philip Weinstein, Dr Monika Nitschke, Mr Graeme R Tucker, Dr Sepehr Shakib
Approved Project Title **The unfolding story of the 2009 Adelaide heatwave: risk factors for mortality and morbidity**

2011		\$41,874.50
2012		\$69,699.50
2013		\$27,825.00
Primary FoR	1117	PUBLIC HEALTH AND HEALTH SERVICES

Partner/Collaborating Organisation(s)

Department of Health (SA)

Administering Organisation The University of Adelaide

Project Summary

This project will conduct a case control study in Adelaide to explore the risk factors of extra health burden related to the 2009 heatwave. Given the prediction of more extreme heat events, this study will provide important information for policy makers and service providers to assist in the development of more resilient communities to climate change.

LP110200878 Dr Brent N Kaiser, Prof Stephen D Tyerman, Dr Kanwarpal S Dhugga, Dr Jan A Rafalski
Approved Project Title **Transport systems that underpin nitrogen efficient maize**

2011		\$94,611.00
2012		\$171,722.00
2013		\$153,222.00
2014		\$139,722.00
2015		\$127,222.00
2016		\$63,611.00
Primary FoR	0607	PLANT BIOLOGY

Partner/Collaborating Organisation(s)

Dupont Pioneer

Administering Organisation The University of Adelaide

Project Summary

This project aims to define the nitrogen transport network involved in the uptake, storage and redistribution of inorganic nitrogen (nitrate and ammonium) over the developmental life cycle of maize. This information will provide novel insight into the genetic control of nitrogen use in maize and other cereal crops.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200805 Prof Andrew J Lowe, Prof Barry W Brook, Prof Corey J Bradshaw
Approved Project Title **Developing best-practice approaches for restoring forest ecosystems that are resilient to climate change**

2011		\$87,000.00
2012		\$174,000.00
2013		\$115,611.00
2014		\$28,611.00
Primary FoR	0603	EVOLUTIONARY BIOLOGY

Partner/Collaborating Organisation(s)

Australian Carbon Biosequestration Initiative Ltd, Greenfleet, Greening Australia (SA) Ltd, SA Water, TREES FOR LIFE INC

Administering Organisation The University of Adelaide

Project Summary

Existing restoration practices for forests tend to rely on ad hoc rules of thumb that lack a firm scientific basis and risk failure due to climate change. The project will model biodiversity, genetic and growth performance data to develop best-practice restoration guidelines for forest ecosystems to enable them to become resilient to climate change and maximise biodiversity and carbon capture outcomes.

LP110200736 Prof Tanya M Monroe, A/Prof Jeremy G Thompson, Dr Robert B Gilchrist, Prof Andrew D Abell
Approved Project Title **Nanosampling sensors for real-time embryo monitoring**

2011		\$75,000.00
2012		\$145,000.00
2013		\$135,000.00
2014		\$65,000.00
Primary FoR	1004	MEDICAL BIOTECHNOLOGY

Partner/Collaborating Organisation(s)

Cook Medical Australia Pty Ltd

Administering Organisation The University of Adelaide

Project Summary

The health potential of every individual is established early in life, during the period when the oocytes mature and embryos are formed. This project will develop a photonic sensing platform capable of monitoring embryos as they develop, which will lead to new insight into the earliest stages of life and improved assisted reproduction technologies.

LP110200060 Prof Graham 'Gus' J Nathan, A/Prof Bassam B Dally, Dr Zeyad T Alwahabi, Prof Heinz Pitsch, Mr Terry Kallis
Approved Project Title **Investigation of the coupled dependence of concentrated solar radiation and combustion in a novel solar hybrid technology**

2011		\$175,000.00
2012		\$275,000.00
2013		\$200,000.00
2014		\$100,000.00
Primary FoR	0913	MECHANICAL ENGINEERING

Partner/Collaborating Organisation(s)

Petratherm

Administering Organisation The University of Adelaide

Project Summary

The project will develop the models necessary for the optimisation of a novel solar-combustion hybrid technology and a novel heat exchanger component. It will deliver a solar thermal technology that lowers the cost of solar energy with immediate potential in off-grid sites, such as in remote mines, in Australia and throughout the world.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200734 Dr David J Ottaway, A/Prof Peter J Veitch
Approved Project Title **Advanced eyesafe Er:YAG short pulsed lasers for remote sensing applications**

2011		\$41,481.00
2012		\$77,035.00
2013		\$35,554.00
Primary FoR	0205	OPTICAL PHYSICS

Partner/Collaborating Organisation(s)

BAE SYSTEMS Australia

Administering Organisation The University of Adelaide

Project Summary

This project will develop state-of-the-art tunable pulsed Er:YAG laser systems that will represent a significant advance for eyesafe remote sensing and range finder technologies. It will render obsolete, current state-of-the-art systems for laser ranging and enable remote sensing of a critical greenhouse gas.

LP110200770 Dr Darren J Trott, Prof Adam McCluskey, Dr Stephen Page
Approved Project Title **Characterisation of a new class of antimicrobial agent for multidrug-resistant infections**

2011		\$73,500.00
2012		\$147,000.00
2013		\$140,500.00
2014		\$67,000.00
Primary FoR	0304	MEDICINAL AND BIOMOLECULAR CHEMISTRY

Partner/Collaborating Organisation(s)

Neoculi Pty Ltd

Administering Organisation The University of Adelaide

Project Summary

New drugs are required to combat the development of antibiotic resistance. This project will conduct further tests on a new compound that has shown initial activity against resistant superbugs by understanding how it works against bacteria and varying the chemical structure to improve effectiveness.

LP110200971 Prof Anton J van den Hengel, Prof Mark A Tester, Dr Anthony R Dick, Dr Joerg Vandenhirtz
Approved Project Title **Improving yield through image-based structural analysis of cereals**

2011		\$100,000.00
2012		\$180,000.00
2013		\$137,500.00
2014		\$57,500.00
Primary FoR	0801	ARTIFICIAL INTELLIGENCE AND IMAGE PROCESSING

Partner/Collaborating Organisation(s)

LemnaTec GmbH

Administering Organisation The University of Adelaide

Project Summary

Feeding an increasing world population under the threat of climate change requires the development of new plant varieties capable of delivering higher yield in more marginal conditions. This project will develop image-based technologies for accurately estimating plant yield which will improve the effectiveness of plant breeding processes.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200179 Dr Megan J Warin, Prof Tracey D Wade, Dr Peter Gilchrist
Approved Project Title **Why are people with eating disorders reluctant to engage with treatment services?**

2011		\$17,456.00
2012		\$32,456.00
2013		\$31,481.00
2014		\$16,481.00
Primary FoR	1601	ANTHROPOLOGY

Partner/Collaborating Organisation(s)

ACEDA Inc, Flinders Medical Centre, SA Health Mental Health Unit

Administering Organisation The University of Adelaide

Project Summary

In seeking to understand why many people with eating disorders do not seek or are reluctant to seek help, this project will make an important contribution to new developments in the prevention of, and intervention into, eating disorders in the Australian community.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

University of South Australia

LP110200326 Prof Andrea R Gerson, Dr Jun Li, Ms Lucy Esdaile, Dr Paul L Brown

Approved Project Title **Solution and surface speciation evolution during chalcopyrite leaching**

2011		\$54,559.50
2012		\$102,720.00
2013		\$95,646.00
2014		\$47,485.50
Primary FoR	0303	MACROMOLECULAR AND MATERIALS CHEMISTRY

Partner/Collaborating Organisation(s)

Technological Resources Pty. Ltd.

Administering Organisation University of South Australia

Project Summary

This project will contribute to the development of a more effective industrial leach process for chalcopyrite, the source of more than 50 per cent of the world's copper, and will lead to substantially reduced processing costs and environmental impact, due to removal of the existing smelting step. In addition, the processing of currently uneconomic low grade ores would become economic.

LP110200376 Prof Andrea R Gerson, Dr Jun Li, Dr Matthew L Taylor, Dr Morris E Lewellyn, Dr Douglas Cywar

Approved Project Title **The mechanism of scale formation and inhibition in alkaline industrial process streams**

2011		\$21,000.00
2012		\$42,000.00
2013		\$42,000.00
2014		\$21,000.00
Primary FoR	0306	PHYSICAL CHEMISTRY (INCL. STRUCTURAL)

Partner/Collaborating Organisation(s)

Cytec Australia Holding Pty

Administering Organisation University of South Australia

Project Summary

Scaling, which reduces flow and heating efficiency, is a serious problem in single stream alumina Bayer plants. This project will potentially save the Australian alumina industry many tens of millions of dollars a year by the development of more effective on-line scale mitigation strategies based on the fundamental understanding of the processes involved.

LP110200141 Prof Carol T Kulik, Dr Elizabeth A Hemphill

Approved Project Title **Employment outcomes for people with disabilities: enhancing fit perceptions of jobseekers, employment agencies, community members and employers**

2011		\$25,000.00
2012		\$50,000.00
2013		\$50,000.00
2014		\$25,000.00
Primary FoR	1503	BUSINESS AND MANAGEMENT

Partner/Collaborating Organisation(s)

Finding Workable Solutions Inc

Administering Organisation University of South Australia

Project Summary

Nearly four million people in Australia have a disability. People with disabilities experience a high unemployment rate. Current policy encourages the placement of disabled job seekers in disability-focused enterprises. This project will identify strategies to facilitate the placement of disabled job seekers in mainstream organisations.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200916	Prof Barbara A Pocock	
Approved Project Title	A study of flexibilities that enable workforce participation and skill development and use, and their implications for work-life outcomes in Australia	
2011		\$17,593.00
2012		\$59,624.00
2013		\$107,592.00
2014		\$111,961.50
2015		\$46,400.50
Primary FoR	1503	BUSINESS AND MANAGEMENT

Partner/Collaborating Organisation(s)

Department of Education, Employment and Workplace Relations, NSW Department of Services, Technology and Administration (NSW), SafeWork SA

Administering Organisation University of South Australia

Project Summary

This project will examine how improved flexibility can assist the reconciliation of work and caring responsibilities, higher levels of employment participation and increasing skill development and utilisation across the Australian workforce, underpinning a more productive economy and improved well-being for Australian workers and their families.

LP110200760	Prof Robert D Short, Dr David A Steele, Dr Peter J Murphy	
Approved Project Title	The development of flexible, graded plasma surface engineered coatings for superior interfacial performance	
2011		\$46,896.00
2012		\$96,042.00
2013		\$98,292.00
2014		\$49,146.00
Primary FoR	0912	MATERIALS ENGINEERING

Partner/Collaborating Organisation(s)

Contamac Limited

Administering Organisation University of South Australia

Project Summary

The next generation of intraocular lenses, medical devices to treat patients with cataracts, will be developed through application of advanced surface engineering technologies. These superior coated lenses will improve biocompatibility and function, leading to additional benefit for the forecasted 2.7 million Australians with cataracts by 2021.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200208	Dr John A van Leeuwen, Prof David J Chittleborough, Prof Simon C Beecham, Dr Erick A Bestland, A/Prof James W Cox, Ms Mary Drikas, Dr Christopher W Chow, Dr Ronald J Smernik	
Approved Project Title	Impact of natural organic matter and nutrients on water quality: identification of catchment sources and attenuation processes	
2011		\$30,000.00
2012		\$45,000.00
2013		\$30,000.00
2014		\$15,000.00
Primary FoR	0502	ENVIRONMENTAL SCIENCE AND MANAGEMENT

Partner/Collaborating Organisation(s)

Adelaide Mount Lofty Ranges Natural Resource Management Board, SA Water, South Australian Research and Development Institute

Administering Organisation University of South Australia

Project Summary

Development of a decision support model for land-use selection that protects water resources will be of significant benefit to the water industry. The outcomes of this project will provide water and catchment managers with a technology that significantly secures the supply of resources for high quality drinking water.

**Summary of Successful Linkage - Projects Proposals for Funding to
Commence in 2011 by State and Organisation**

Western Australia

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

Curtin University of Technology

LP110200026 Prof Mark Balnaves, Mr Jonathan N Noal, Prof Gary G Madden, A/Prof Philip J Moore, Dr Michele A Willson, Dr Tama B Leaver

Approved Project Title **Online Money and Fantasy Games - an applied ethnographic study into the new entrepreneurial communities and their underlying designs**

2011 \$19,500.00

2012 \$34,500.00

2013 \$15,000.00

Primary FoR 2001 COMMUNICATION AND MEDIA STUDIES

Partner/Collaborating Organisation(s)

J Noal Pty Ltd

Administering Organisation Curtin University of Technology

Project Summary

Modern social and fantasy games using online money are multi-billion dollar business, but little is known about them, their developers, or impacts on privacy, identity and monetisation of relationships. This is the first study to investigate these concerns and to relate fieldwork results to the simultaneous building of a social gaming platform.

LP110200118 Prof Elizabeth J Chang, Dr Kit Yan Chan, Dr Omar K Hussain, Dr Richard M Soley, Mr Elias R Santimano, Dr Visalakshi S Ramakonar

Approved Project Title **Next generation Customer Relationship Management (CRM) framework through intelligence and relationships from multiple information sources**

2011 \$57,000.00

2012 \$114,000.00

2013 \$114,000.00

2014 \$57,000.00

Primary FoR 1505 MARKETING

APDI Dr Omar K Hussain

Partner/Collaborating Organisation(s)

Alslys MSC Sdn Bhd, Department of Transport (WA)

Administering Organisation Curtin University of Technology

Project Summary

In the current competitive times, organisations need to improve their service delivery and customer care processes and provide customised service to customers. This project develops a Customer Relationship Management (CRM) framework that can extract intelligence and relationships from multiple data sources to improve customer management and satisfaction in public and private organisations.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200285 Prof Barry J Fraser, A/Prof Farida Fozdar, Dr Jill M Aldridge
Approved Project Title **Effectiveness of a whole-school intercultural approach aimed at removing barriers to learning for students from non-mainstream backgrounds**

2011		\$18,540.00
2012		\$37,130.00
2013		\$39,780.00
2014		\$42,380.00
2015		\$42,380.00
2016		\$21,190.00
Primary FoR	1608	SOCIOLOGY

Partner/Collaborating Organisation(s)

ASeTTS, Lynwood Senior High School, Sevenoaks Senior College, The Victorian Foundation for Survivors of Torture Inc.

Administering Organisation Curtin University of Technology

Project Summary

This project will involve the study of localising, implementing and evaluating a whole-school intercultural approach that emphasises inclusion, diverse curricula and the monitoring of attitudes. It is anticipated that the approach will remove barriers to learning for non-mainstream students to help to address systemic inequity.

LP110200756 Dr Christine J Howitt, Prof Leonie J Rennie
Approved Project Title **Small steps in science: developing young children's science understanding through playgroup incursions**

2011		\$22,500.00
2012		\$45,000.00
2013		\$37,500.00
2014		\$15,000.00
Primary FoR	1303	SPECIALIST STUDIES IN EDUCATION

Partner/Collaborating Organisation(s)

Rio Tinto, Scitech Discovery Centre

Administering Organisation Curtin University of Technology

Project Summary

This project will determine how best to structure science-related incursions into playgroups to provide quality experiences to assist children's learning and to increase adult-child engagement in science activities. The resulting increased understanding will assist parents and early childhood educators to teach science effectively to young children.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200281	Prof San Ping Jiang	
Approved Project Title	Investigation of contaminant distribution, deposition and poisoning of cathodes of solid oxide fuel cells	
2011		\$33,500.00
2012		\$67,250.00
2013		\$66,500.00
2014		\$32,750.00
Primary FoR	0912	MATERIALS ENGINEERING

Partner/Collaborating Organisation(s)

Ceramic Fuel Cells Ltd

Administering Organisation Curtin University of Technology

Project Summary

The purpose of the project is to fundamentally study the poisoning process of contaminants on the performance degradation and activity of solid oxide fuel cells (SOFC) cathode and to develop contaminant-tolerant cathodes, so as to ensure the product life over five years of the BlueGen SOFC systems being developed by Ceramic Fuel Cells Ltd. in Melbourne.

LP110201103	A/Prof Rhonda B Oliver	
Approved Project Title	Developing a language and literacy Needs Analysis model for Indigenous vocational education students who speak English as a second language/dialect	
2011		\$24,500.00
2012		\$43,500.00
2013		\$19,000.00
Primary FoR	2004	LINGUISTICS

Partner/Collaborating Organisation(s)

Association of Independent Schools of Western Australia

Administering Organisation Curtin University of Technology

Project Summary

This project aims to develop a Literacy Needs Analysis Model for use by educators targeting rural and remote Indigenous vocational education students who speak Standard Australian English as a second language/dialect. Addressing their significant learning needs will enhance their transition into further education/training and/or the workforce.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

Edith Cowan University

LP110200020 Prof Lelia R Green, Dr Danielle J Brady, Dr Stuart Medley, Dr Barnard D Clarkson, Dr Peter M Jacklyn, Dr Matthew L Adams

Approved Project Title **Using community engagement and enhanced visual information to promote FireWatch satellite communication as a support for collaborative decision-making**

2011	\$29,997.00
2012	\$59,994.00
2013	\$59,994.00
2014	\$29,997.00

Primary FoR 2001 COMMUNICATION AND MEDIA STUDIES

Partner/Collaborating Organisation(s)

Landgate

Administering Organisation Edith Cowan University

Project Summary

Using continuously updated satellite data, FireWatch will repurpose its professional service for use by the wider public, informing community-based decision-making and action. Communication flows and community decision-making will promote informed action at times of fire stress. Complex visual data will be communicated in clear and compelling ways.

LP110200057 A/Prof Christopher P Newhouse, Dr Jeremy E Pagram, Prof Mark W Hackling, Dr Lisa F Paris, Prof Christine L Ure

Approved Project Title **Authentic digital representation of creative works in education: addressing the challenges of digitisation and assessment**

2011	\$30,000.00
2012	\$62,500.00
2013	\$59,500.00
2014	\$27,000.00

Primary FoR 1303 SPECIALIST STUDIES IN EDUCATION

Partner/Collaborating Organisation(s)

WA Curriculum Council

Administering Organisation Edith Cowan University

Project Summary

This project will investigate the digitisation and marking of portfolios for the purposes of summative assessment in the visual arts and design senior secondary school courses. The aim is to enhance moderation, compare between media and course contexts, compare methods of marking, and generally increase the authenticity of the assessment.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110201001 Prof Elizabeth A Walker, Dr Janice Redmond, Dr Sandra Woollorton
Approved Project Title **Sustainable environmental management in Australian small firms**

2011		\$15,000.00
2012		\$30,000.00
2013		\$30,000.00
2014		\$15,000.00
Primary FoR	0502	ENVIRONMENTAL SCIENCE AND MANAGEMENT

Partner/Collaborating Organisation(s)

City of Joondalup, West Coast Institute of Training

Administering Organisation Edith Cowan University

Project Summary

Small firms are the 'backbone' of the Australian economy but they can also have a significant negative impact on the environment. Helping them to increase their energy efficiency through an innovative intervention program will make a positive contribution to Australia's environmental performance.

Murdoch University

LP110200180 Prof Michael G Jones, Prof Marilyn Roossinck, Prof Kingsley W Dixon
Approved Project Title **The roles viruses play in the decline of terrestrial orchids in Australia's hotspot of global biodiversity**

2011		\$48,500.00
2012		\$96,000.00
2013		\$94,500.00
2014		\$47,000.00
Primary FoR	0607	PLANT BIOLOGY

Partner/Collaborating Organisation(s)

Samuel Roberts Noble Foundation, The Australian Orchid Foundation, WA Botanic Gardens and Parks Authority

Administering Organisation Murdoch University

Project Summary

Plant viruses play both positive and negative roles in native plant health and population viability. This study will use deep sequencing and plant physiology approaches to elucidate how threatened terrestrial orchids respond to infection by exotic and indigenous viruses, allowing more informed management of critically-important ecosystems.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

The University of Western Australia

LP110201117 Prof John L Cordery, Prof Cristina Gibson

Approved Project Title **The evolution of global communities of practice within organisations: leveraging structure, identity and coordination**

2011		\$15,000.00
2012		\$40,000.00
2013		\$45,732.00
2014		\$20,732.00
Primary FoR	1503	BUSINESS AND MANAGEMENT

Partner/Collaborating Organisation(s)

Alcoa World Alumina

Administering Organisation The University of Western Australia

Project Summary

Communities of practice, groups of people who interact to share interests, concerns, or problems in a topic area, are popular within global organizations seeking to leverage dispersed knowledge and expertise for competitive advantage. This research project will examine factors that influence the effectiveness of global communities of practice.

LP110200304 Prof Raphael K Didham, Em/Prof Sidney D Bradshaw, Prof Kingsley W Dixon

Approved Project Title **The spatial energetics of pollination failure in habitat restoration**

2011		\$66,935.50
2012		\$129,224.00
2013		\$124,614.00
2014		\$124,687.50
2015		\$122,992.50
2016		\$60,630.50
Primary FoR	0501	ECOLOGICAL APPLICATIONS

Partner/Collaborating Organisation(s)

WA Botanic Gardens and Parks Authority

Administering Organisation The University of Western Australia

Project Summary

This project addresses the reasons for pollination failure of threatened plant species during habitat restoration. Specifically, the project will determine the role of energetic constraints on pollinator movement in the hostile landscape matrix surrounding urban woodland remnants, and model future scenarios for restoring natural functioning woodland ecosystems.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200906 Prof Hong Hao, Dr Tianli Huang, Prof Weixin Ren
Approved Project Title **Numerical and experimental study of pounding damage of adjacent bridge structures to spatially varying earthquake ground motions**

2011		\$34,222.00
2012		\$66,944.00
2013		\$65,444.00
2014		\$32,722.00
Primary FoR	0905	CIVIL ENGINEERING

Partner/Collaborating Organisation(s)

China Changsha Xinyuan Civil Engineering Consultant Pte Ltd.

Administering Organisation The University of Western Australia

Project Summary

Bridge damage in an earthquake prevents rescue personnel and equipment from quick access to the affected area. Repairing or replacing a damaged bridge and the increased commuting time after the earthquake may have a significant impact on the economy and life of the general public. This project will develop techniques for earthquake-resistant bridge design.

LP110200142 Prof John G Hartnett, Dr Sang Eon Park, Dr Sang-Bum Lee, Dr Giorgio Santarelli
Approved Project Title **Realisation of an ultra-stable local oscillator using an ultra-low vibration pulse-tube cryocooler**

2011		\$110,000.00
2012		\$150,000.00
2013		\$80,000.00
2014		\$40,000.00
Primary FoR	0299	OTHER PHYSICAL SCIENCES

Partner/Collaborating Organisation(s)

Korea Research Institute of Standards and Science

Administering Organisation The University of Western Australia

Project Summary

This project will complete the development of a new type of ultra-low-noise ultra-stable microwave oscillator cooled with an ultra-low vibration cryostat and cryocooler. The resulting oscillator will have wide application, but especially to atomic fountain clocks and to very high frequency Very Long Baseline Interferometry (VLBI) radio astronomy.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110201008	Dr Euan S Harvey, Prof Mark R Shortis, Dr Ajmal S Mian, A/Prof Philip F Culverhouse, Dr Duane Edgington, Ms Danelle Cline	
Approved Project Title	Automation of species recognition and size measurement of fish from underwater stereo-video imagery	
2011		\$76,500.00
2012		\$148,000.00
2013		\$141,500.00
2014		\$70,000.00
Primary FoR	0704	FISHERIES SCIENCES

Partner/Collaborating Organisation(s)

AQ1 Systems Pty. Ltd, Australian Fisheries Management Authority, Department of Environment and Conservation, Department of Environment and Natural Resources, NSW Office of Environment and Heritage, Parks Victoria, SeaGIS Pty. Ltd

Administering Organisation The University of Western Australia

Project Summary

The project aims to develop algorithms to automate the processing of stereo-video images recorded to count and measure the size of fish. This will improve husbandry and monitoring for finfish aquaculture at reduced costs, create technology export for industry partners, and develop cost effective, non-destructive finfish sampling tools for marine agencies.

LP110201087	Prof Guowei Ma, Prof Hong Hao, Dr Wie-Min Gho	
Approved Project Title	Vulnerability mapping of hazards and economic loss assessment of offshore oil and gas platforms subject to accidental explosion and fires	
2011		\$40,000.00
2012		\$80,000.00
2013		\$65,000.00
2014		\$25,000.00
Primary FoR	0905	CIVIL ENGINEERING

Partner/Collaborating Organisation(s)

Six Tee Engineering Groups Pte Ltd

Administering Organisation The University of Western Australia

Project Summary

In Australia, up to 100 offshore oil and gas wells per year are drilled, but fire and explosion are a risk. This project develops vulnerability maps of offshore platforms subjected to accidental explosions, so that economic loss, environmental and social impact can be effectively assessed based on these factors and mitigation measures can be introduced.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200961 Prof Zed Rengel, Prof Mark Tibbett, A/Prof David A Jasper
Approved Project Title **Arsenic and copper cycling in the soil-plant continuum in water-limited mining environments**

2011		\$50,000.00
2012		\$100,000.00
2013		\$100,000.00
2014		\$50,000.00
Primary FoR	0502	ENVIRONMENTAL SCIENCE AND MANAGEMENT

Partner/Collaborating Organisation(s)

Newcrest Mining Ltd, Outback Ecology Services

Administering Organisation The University of Western Australia

Project Summary

This project will characterise cycling of arsenic and copper in the landscape after gold mining and will establish environmental risk-assessment framework. The results of this project will improve rehabilitation of mining-affected areas.

LP110200551 Prof Steven M Smith
Approved Project Title **Sterol interference as a new approach to the control of insect pests of crops**

2011		\$48,000.00
2012		\$96,000.00
2013		\$96,000.00
2014		\$48,000.00
Primary FoR	1001	AGRICULTURAL BIOTECHNOLOGY

Partner/Collaborating Organisation(s)

Hexima Limited

Administering Organisation The University of Western Australia

Project Summary

This project aims to develop a new approach to control chewing insect pests of crops. This will be achieved by interfering with insect sterol metabolism so that they fail to grow and reproduce normally.

LP110201150 Prof John H Taplin, Dr Jianhong Xia, Dr Doina Olaru, Dr Renlong Han
Approved Project Title **Modelling and evaluating the joint access mode and train station choice**

2011		\$44,815.00
2012		\$72,980.00
2013		\$66,330.00
2014		\$38,165.00
Primary FoR	1205	URBAN AND REGIONAL PLANNING

Partner/Collaborating Organisation(s)

Department of Planning (WA), Department of Transport (WA), Public Transport Authority of Western Australia

Administering Organisation The University of Western Australia

Project Summary

This project will study park-and-ride (PnR) as an alternative travel mode, reducing car use and increasing transit ridership in low-density cities. The potential impacts of parking charges and high petrol price are central issues. Choice modelling and spatial analysis will be used to assess the value of PnR and aid decisions on PnR location and pricing.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110201130	Prof Mark Tibbett, Prof Andrew S Ball, A/Prof Robert D Trengove, A/Prof Megan H Ryan, Dr Gary D Bending	
Approved Project Title	Development of novel and effective strategies for soil microbial- and rhizo-remediation of onshore petrogenic hydrocarbon spills	
2011		\$69,500.00
2012		\$139,500.00
2013		\$140,000.00
2014		\$70,000.00
Primary FoR	1002	ENVIRONMENTAL BIOTECHNOLOGY

Partner/Collaborating Organisation(s)

Chemistry Centre, Environmental and Earth Sciences Pty Ltd, Horizon Power

Administering Organisation The University of Western Australia

Project Summary

The extensive use of petroleum products represents a constant threat of oil spills to onshore and offshore environments. Petroleum spillage seriously impacts environment and human health. This project is aimed at providing a suite of techniques for dealing with onshore oil spills and thereby building Australia's environmental response capability.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

Tasmania

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

University of Tasmania

LP110200129	Prof Neil Bose, Mr Gregor J Macfarlane, Dr Laurence C Goldsworthy, Dr Tom Denniss	
Approved Project Title	Performance and design optimisation of oscillating water column ocean wave energy converters	
2011		\$71,000.00
2012		\$121,000.00
2013		\$100,000.00
2014		\$50,000.00
Primary FoR	0911	MARITIME ENGINEERING

Partner/Collaborating Organisation(s)

Oceanlinx Limited

Administering Organisation University of Tasmania

Project Summary

This project will develop an optimised design for ocean wave energy extraction devices, known as oscillating water columns. This will significantly reduce energy conversion losses from oscillating water columns and contribute towards making them internationally competitive with other renewable energy technologies.

LP110200006	Prof David M Bowman, Dr Brett P Murphy	
Approved Project Title	Is a grass-fire cycle reducing biodiversity in the stone country of Kakadu National Park?	
2011		\$15,031.00
2012		\$30,047.00
2013		\$15,016.00
Primary FoR	0501	ECOLOGICAL APPLICATIONS

Partner/Collaborating Organisation(s)

Kakadu National Park

Administering Organisation University of Tasmania

Project Summary

There is concern that bushfires in northern Australia are causing biodiversity loss. The project will compare fire regimes and populations of a fire-sensitive tree, *Callitris intratropica*, in Kakadu to similar areas in central Arnhem Land, to see how fire management can be optimised to prevent further biodiversity loss on the Arnhem Plateau.

LP110200828	Prof Ian Hay, A/Prof Kim C Beswick, Prof Neil C Cranston, Prof Jane M Watson, Dr Jeanne M Allen	
Approved Project Title	Student retention beyond the compulsory schooling years in rural, regional and disadvantaged communities	
2011		\$42,500.00
2012		\$86,500.00
2013		\$89,500.00
2014		\$45,500.00
Primary FoR	1301	EDUCATION SYSTEMS

Partner/Collaborating Organisation(s)

Tasmanian Department of Education

Administering Organisation University of Tasmania

Project Summary

This project will incorporate longitudinal mixed-methods study to investigate the factors that influence student retention in schooling beyond the compulsory years in rural, regional and disadvantaged communities. Research outcomes will identify best-practice educational strategies to enhance retention in such communities across Australia.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200244 Dr Jane E Sargison, Dr Alan D Henderson, Dr Jessica M Andrewartha, Prof Gregory J Walker, Dr Marian Piekutowski

Approved Project Title **Rapid starting and unsteady operation of hydraulic turbines**

2011 \$25,000.00

2012 \$49,500.00

2013 \$49,000.00

2014 \$24,500.00

Primary FoR 0906 ELECTRICAL AND ELECTRONIC ENGINEERING

Partner/Collaborating Organisation(s)

Hydro Tasmania

Administering Organisation University of Tasmania

Project Summary

The project will investigate the ability of hydraulic turbines to start rapidly with the turbine spinning in air which is more water efficient and has lower maintenance costs than other methods. The project will allow higher use of hydroelectricity and higher penetration of wind or other intermittent renewable energy generation into an electricity grid.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

Northern Territory

Charles Darwin University

LP110200215 Asst Prof Fiona M Arney

Approved Project Title Exploring the impact and implementation of family group conferencing for Aboriginal children

2011		\$15,000.00
2012		\$30,000.00
2013		\$30,000.00
2014		\$15,000.00
Primary FoR	1607	SOCIAL WORK

Partner/Collaborating Organisation(s)

Northern Territory Department of Health and Families

Administering Organisation Charles Darwin University

Project Summary

This ground-breaking study aims to transform child protection services and improve the safety and wellbeing of vulnerable Aboriginal children. This project will explore new models to assist compliance with child safety plans developed through family group conferences in child protection matters in Alice Springs.

LP110200157 Dr Eric Fassbender, A/Prof Dean B Carson, A/Prof Deborah C Richards, A/Prof William C Wade

Approved Project Title Virtual Galleries: new media technologies to influence livelihood and arts participation in remote communities of the Northern Territory, Australia

2011		\$15,011.00
2012		\$30,058.00
2013		\$30,158.00
2014		\$15,111.00
Primary FoR	0805	DISTRIBUTED COMPUTING

Partner/Collaborating Organisation(s)

Art Gallery of NSW, KERINGKE ARTS ABORIGINAL CORP, Museums and Art Galleries of the Northern Territory, Waringarri Arts Aboriginal Corporation

Administering Organisation Charles Darwin University

Project Summary

The Virtual Galleries project addresses the issue of limited economic development in remote communities by introducing a user-controlled webcam and interactive 3-D (three-dimensional) Art Galleries into remote art centres to help people in remote communities to secure an income and create wealth and social wellbeing for themselves, their families and their communities.

**Summary of Successful Linkage - Projects Proposals for Funding to
Commence in 2011 by State and Organisation**

Australian Capital Territory

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

The Australian National University

LP110200740 Prof Valerie A Braithwaite, Ms Elizabeth J Bluff, Prof Neil A Gunningham, Dr Jennifer A Job

Approved Project Title **Socio-psychological factors and compliance with work health and safety regulation - theory, policy and practice**

2011	\$55,000.00
2012	\$95,000.00
2013	\$66,322.50
2014	\$26,322.50
Primary FoR	1801 LAW

Partner/Collaborating Organisation(s)

Safe Work Australia

Administering Organisation The Australian National University

Project Summary

This project will examine and provide an account of the relationship between socio-psychological factors (knowledge, motivations, attitudes, perceptions and norms), and procedural and substantive compliance with work health and safety regulation and lead the way in reducing workplace injuries through improving regulatory effectiveness.

LP110201128 Dr Celia J Brockwell, Dr Janelle G Stevenson

Approved Project Title **From prehistory to history: landscape and cultural change on the South Alligator River, Kakadu National Park**

2011	\$30,000.00
2012	\$66,000.00
2013	\$66,000.00
2014	\$30,000.00
Primary FoR	2101 ARCHAEOLOGY

Partner/Collaborating Organisation(s)

Kakadu National Park

Administering Organisation The Australian National University

Project Summary

This project explores the archaeology, history and palaeoecology of the Kakadu floodplains to better understand social and environmental changes that have taken place in this landscape from the mid-Holocene to historical times. The outcome will be a contextualised understanding of potential climate change impacts against a history of past change.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200496	Prof Bruce J Chapman, Mr Kiatanantha Lounkaew, Dr Mathias Sinning, Dr Timothy S Higgins, Prof Glenn A Withers	
Approved Project Title	Innovative financing mechanisms for higher education	
2011		\$72,481.00
2012		\$125,862.00
2013		\$125,862.00
2014		\$72,481.00
Primary FoR	1402	APPLIED ECONOMICS

APDI Mr Kiatanantha Lounkaew

Partner/Collaborating Organisation(s)

Dhurakij Pundit University, Thailand, Universities Australia

Administering Organisation The Australian National University

Project Summary

Advances in statistical modelling are used to highlight the potential to apply creatively income contingent loans for the expansion of Australian and international higher education. Alternative student loan mechanisms for income support and tuition are critically analysed, and new arrangements are proposed for equitable reforms in higher education.

LP110200431	A/Prof Gillian V Hall, Prof Niels G Becker, Dr Geoffry N Mercer, Dr Craig T Shadbolt, Dr Duncan L Craig, Dr Margaret E Sexton, Dr Olivia J McQuestin, Mrs Sally-Anne Munnoch, Dr Anthony d Merritt	
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Approved Project Title **Identifying and controlling the source of Campylobacter and Salmonella in Australia**

2011		\$75,852.50
2012		\$125,686.50
2013		\$49,834.00
Primary FoR	1117	PUBLIC HEALTH AND HEALTH SERVICES

Partner/Collaborating Organisation(s)

Food Standards Australia New Zealand, Hunter New England Area Health Service, NSW Food Authority, Primary Industries and Resources South Australia (PIRSA), Tasmanian Department of Health and Human Services

Administering Organisation The Australian National University

Project Summary

This project will identify the source of foodborne illnesses due to Salmonella and Campylobacter in order to inform food regulatory policy. The ultimate aim is to reduce the amount of foodborne disease in Australia.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200410 Dr Markus Hegland, Dr Peter E Strazdins, A/Prof Stephen G Roberts, Prof Richard P Brent, A/Prof Alistair P Rendell, Dr Ross H Nobes
Approved Project Title **Robust numerical solution of partial differential equations on petascale computer systems with applications to tsunami modelling and plasma physics**

2011		\$73,000.00
2012		\$148,000.00
2013		\$150,000.00
2014		\$75,000.00
Primary FoR	0103	NUMERICAL AND COMPUTATIONAL MATHEMATICS

Partner/Collaborating Organisation(s)

Fujitsu Laboratories of Europe Limited

Administering Organisation The Australian National University

Project Summary

The project will apply new mathematical ideas to exploit the unprecedented computational resources provided by the next generation of high performance computers. The resulting techniques and software will form a key component for the science needed to understand the workings of complex dynamical systems, such as tsunamis and fusion reactors.

LP110200474 Dr Christine A Jubb, Prof Kerry R Jacobs, Prof Shirley D Gregor
Approved Project Title **Development, implementation and private and public sector adoption of Standard Business Reporting in Australia**

2011		\$32,500.00
2012		\$62,500.00
2013		\$60,000.00
2014		\$30,000.00
Primary FoR	1501	ACCOUNTING, AUDITING AND ACCOUNTABILITY

Partner/Collaborating Organisation(s)

Commonwealth Department of Treasury, Institute of Chartered Accountants in Australia

Administering Organisation The Australian National University

Project Summary

Standard Business Reporting is a government response to the business regulatory burden and streamlines business to government reporting, but involves some cost to business in its initial uptake. This project examines the adoption decisions made and their consequences for business entities choosing to use this voluntary reporting channel.

LP110200768 Prof Robert E Mahony, Dr David J Austin
Approved Project Title **A high-speed light-weight embedded vision system for robotics and computer vision applications**

2011		\$20,000.00
2012		\$40,000.00
2013		\$38,000.00
2014		\$18,000.00
Primary FoR	0801	ARTIFICIAL INTELLIGENCE AND IMAGE PROCESSING

Partner/Collaborating Organisation(s)

MadJ Innovations Pty Ltd

Administering Organisation The Australian National University

Project Summary

Eyesight is the strongest sense for humans and much of the brain is dedicated to vision processing. This project aims to develop an analogous vision capability for small, dynamic robots: a small, light, camera that preprocesses the raw video data to provide higher level information to the robot.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200742 Prof Howard Morphy, Dr Michael A Smith, Dr Libby Robin, Dr June Ross, Ms Margo Neale

Approved Project Title **Alive with the Dreaming! Songlines of the Western Desert**

2011		\$100,000.00
2012		\$200,000.00
2013		\$221,500.00
2014		\$205,000.00
2015		\$83,500.00
Primary FoR	2002	CULTURAL STUDIES

Partner/Collaborating Organisation(s)

KANYIRNINPA JUKURRPA, Ananguku Arts and Culture Aboriginal Corporation, Archaeological & Heritage Management Solutions, Department of Sustainability, Environment, Water, Population and Communities, NPY WOMEN'S COUNCIL, National Museum of Australia, The Palya Fund

Administering Organisation The Australian National University

Project Summary

Songlines that map the Australian continent are of iconic significance in the national cultural heritage of Indigenous and non-Indigenous Australians. The vision of Western Desert elders and artists is to share with the wider community an understanding of the scale, spiritual and environmental significance of the Tjukurpa Songlines of Australia.

LP110200803 Prof Nicolas Peterson, Mr Michael Cawthorn, Mrs Helen Wilmot, Dr John K Henderson, Dr Anna-Maria B Kenny

Approved Project Title **Rescuing Carl Strehlow's Indigenous cultural heritage legacy: the neglected German tradition of Arandic ethnography**

2011		\$44,500.00
2012		\$86,500.00
2013		\$86,000.00
2014		\$44,000.00
Primary FoR	1601	ANTHROPOLOGY

APDI Dr Anna-Maria B Kenny

Partner/Collaborating Organisation(s)

Central Land Council, Strehlow Research Centre

Administering Organisation The Australian National University

Project Summary

In collaboration with Arrernte and Luritja speakers, this project will result in the translation of Carl Strehlow's 10,000 word German dictionary and other major, unavailable cultural heritage materials and at the same time incorporate the work of the neglected tradition of German humanistic anthropology into scholarship on Central Australia.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

LP110200257 Prof Barry J Pogson, Mr Andrew Easton
Approved Project Title **Towards improving the yield of Canola and other Brassicas during drought**

2011		\$41,000.00
2012		\$80,500.00
2013		\$79,000.00
2014		\$39,500.00
Primary FoR	0703	CROP AND PASTURE PRODUCTION

Partner/Collaborating Organisation(s)

Pacific Seeds

Administering Organisation The Australian National University

Project Summary

One of the major problems faced by world agriculture is drought; this project should improve the yield of Canola during moderate to severe droughts. Significantly, this project includes both "traditional" non-genetically modified (GM) strategies and GM strategies to maximise the market for our drought-tolerant canola both in Australia and overseas.

LP110200184 Prof Peter M Veth, A/Prof Mark Staniforth, Dr Ian D MacLeod, Ms Vicki L Richards, Mr Anthony J Barham
Approved Project Title **The Australian historic shipwreck protection project: the in situ preservation and reburial of a colonial trader - Clarence (1850)**

2011		\$150,000.00
2012		\$210,000.00
2013		\$100,000.00
2014		\$40,000.00
Primary FoR	2101	ARCHAEOLOGY

Partner/Collaborating Organisation(s)

Australian National Maritime Museum, Department of Sustainability, Environment, Water, Population and Communities, Department of the Chief Minister , NSW Department of Planning, Norfolk Island Museum, Parks and Wildlife Service, Tasmania, QLD Department of Environment and Resource Management, THE AUSTRALASIAN INSTITUTE FOR MARITIME ARCHAEOLOGY, Victoria Department of Planning and Community Development, Western Australian Museum

Administering Organisation The Australian National University

Project Summary

The project will use cutting-edge technology to study and preserve an early colonial shipwreck at risk and develop a world-class strategy for the reburial and preservation of endangered historic shipwrecks. The project will help develop new national policy and technical guidelines for site managers of historic shipwrecks and offer new insights into colonial shipbuilding.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

University of Canberra

LP110200029 Prof Stephen Sarre, Asst Prof Bernd M Gruber, Prof Arthur Georges, Asst Prof Tariq Ezaz, Dr Donald B Fletcher, Dr William S Osborne

Approved Project Title **Forces of extinction in reptiles: the case of a rapidly declining endangered grassland lizard**

2011 \$40,000.00

2012 \$92,500.00

2013 \$117,500.00

2014 \$105,000.00

2015 \$40,000.00

Primary FoR 0502 ENVIRONMENTAL SCIENCE AND MANAGEMENT

Partner/Collaborating Organisation(s)

Department of Territory and Municipal Services - Research and Planning

Administering Organisation University of Canberra

Project Summary

The project will provide the basis for removing the grassland earless dragon from its endangered status and provide a template for the future science based management of other endangered or declining reptiles. Australia will gain by reducing its risk of losing yet another species and the threat of losing more.