

Summary of Linkage Projects Applications for Funding to Commence in 2006

Victoria

The University of Melbourne

LP0669455 Prof AJ Baker; Prof RJ Gilkes; Dr N Perrier; Dr S Sarramegna; Dr JC Rose; Prof H Amir; Dr P Jourand

Approved Project Title **The biogeochemical cycles of Ni and Co, a functional approach to ecological restoration of lateritic soils**

2006 : \$47,500

2007 : \$95,000

2008 : \$92,500

2009 : \$45,000

Primary RFCD 3001 SOIL AND WATER SCIENCES
APDI Dr N Perrier

Partner Organisation(s)

Falconbridge LTD

Administering Institution The University of Melbourne

Project Summary

Nickel is an essential metal for many technologies, and a key component of Australia's resource industry. Nickel exports contribute in excess of Aus\$2 billion per annum to the economy. To date, most of Australia's Ni production has come from sulphide ores but the current development of large lateritic Ni operations in Western Australia will result in most production coming from lateritic Ni ore. Hence increasing the research effort on ecological restoration of these large opencast mines is essential to ensure an environmentally sustainable Australia. This project will set up strategies to maintain biodiversity using geochemical and biological technologies to minimise environmental risk.

LP0668942 Dr G Bossinger; Dr PK Ades

Approved Project Title **Genetic association studies of fundamental wood fibre components in Pinus radiata resource populations**

2006 : \$20,000

2007 : \$40,000

2008 : \$45,000

2009 : \$25,000

Primary RFCD 2702 GENETICS
APA(I) Award(s): 1

Partner Organisation(s)

Forests New South Wales

Administering Institution The University of Melbourne

Project Summary

Radiata pine is Australia's premiere softwood plantation species occupying in excess of one million hectares, contributing over \$18 billion to Australia's GNP and providing employment to 130,000 Australians. With a trade deficit in forest and forest products of \$1.85 billion, current massive plantation establishment efforts are in train to reverse this trend. These have to be backed by research into the factors that determine the base resource's quality, growth and sustainability. Results will lead to improved resource quality, increased productivity and new industrial opportunities, directly improving our trade position and releasing pressure on our native forest resources.

Summary of Linkage Projects Applications for Funding to Commence in 2006

LP0669625 Dr GK Brown; Prof PY Ladiges; Dr DJ Murphy; Mr BR Maslin

Approved Project Title **A predictive phylogenetic classification for Australian acacias and their tropical legume relatives worldwide**

2006 : \$37,170

2007 : \$74,340

2008 : \$79,670

2009 : \$42,500

Primary RFCD 2704 BOTANY

APDI Dr GK Brown

Partner Organisation(s)

Royal Botanic Gardens, Melbourne

Department of Conservation and Land Management

Administering Institution The University of Melbourne

Project Summary

The results of this project will provide the foundation for a new predictive classification of Australian acacias and their relatives, among tropical legumes. Improved phylogenetic classification will underpin the delivery of biodiversity research, goods and services in Australia and neighbouring tropical countries. Outcomes of improved taxonomy include species identification and species selection in various industries and environmental programs. Acacias and legumes are used in agro-forestry, as shade trees for crops, fuel wood, stock feed, nitrogen fixation, planting for land reclamation in arid and salinity-affected areas, and as new plantation timber products.

LP0669282 Prof K Darian-Smith; Prof WS Logan; Prof GP Seal

Approved Project Title **Childhood, Tradition and Change: a national study of the historical and contemporary practices and significance of Australian children's playlore**

2006 : \$39,248

2007 : \$73,033

2008 : \$67,395

2009 : \$45,798

2010 : \$12,188

Primary RFCD 4301 HISTORICAL STUDIES

Partner Organisation(s)

National Library of Australia

Museum Victoria

Administering Institution The University of Melbourne

Project Summary

Through extending knowledge of children's playlore in the daily lives and social frameworks of Australians from the 1950s to the present, this project will contribute to broader public and policy discussions concerning educational, recreational and public health outcomes for children. It will enhance understanding of past and contemporary children's play practices and the external influences shaping these, and assist UNESCO and the Australian government in defining intangible cultural heritage. Through partnerships with the National Library of Australia and Museum Victoria, the project will disseminate its findings to the community through publications, conferences and public exhibitions.

Summary of Linkage Projects Applications for Funding to Commence in 2006

LP0669614 Prof KT Davis; A/Prof CA Brown; Dr L Coleman

Approved Project Title Risk management policies and practices of major Australian firms

2006 : \$15,417

2007 : \$38,602

2008 : \$23,185

Primary RFCD 3503 BANKING, FINANCE AND INVESTMENT

Partner Organisation(s)

Ernst & Young

The Finance and Treasury Association

Administering Institution The University of Melbourne

Project Summary

High profile corporate failures attributable to incorrect hedging strategies have recently drawn attention to corporate financial risk management, although its important role in financial management is far more ubiquitous and pervasive. The project will shed light on the internal processes of corporate risk management which previous studies have not addressed. It will produce a 'stock-take' of current practices enabling assessment against theoretical models and identification of current 'best practice'. Against this backdrop, Australian firms will be able to assess the merits of their current policies and practices, and assist corporate outsiders (regulators, analysts, researchers) in better understanding corporate risk management.

LP0669652 Prof KG Dovey

Approved Project Title The character of urban intensification: Protecting and Creating Place Identity in Activity Centres

2006 : \$58,527

2007 : \$120,325

2008 : \$125,873

2009 : \$64,075

Primary RFCD 3101 ARCHITECTURE AND URBAN ENVIRONMENT

APA(I) Award(s): 1

Partner Organisation(s)

Dept. of Sust. & Env., VIC.

CITY OF YARRA

CITY OF MORELAND

CITY OF MELBOURNE

Administering Institution The University of Melbourne

Project Summary

This project will contribute to the improved environmental and social sustainability of Australian cities and to an enhanced sense of place and community. It will raise awareness and understanding of social factors associated with urban change and provide theoretical and practical tools to facilitate more effective policy development, urban regulation and urban design. Although based in Melbourne, the methodology and findings can be applied to other Australian cities and internationally.

LP0669753 Prof R Dowell; Ms G Cook; A/Prof JF Patrick

Approved Project Title Vocal empowerment: Researching the effect of actor voice training on young adults with cochlear implants and hearing aids

2006 : \$30,000

2007 : \$57,500

2008 : \$27,500

Primary RFCD 3210 CLINICAL SCIENCES

Partner Organisation(s)

Cochlear Ltd

Administering Institution The University of Melbourne

Project Summary

The research offers significant public health outcomes for Australians, in the areas of preventative healthcare, through improving the social integration and quality of life of young adults with a hearing impairment and through improvements in habilitation.

Summary of Linkage Projects Applications for Funding to Commence in 2006

LP0669235 Prof CB Ferguson; Prof BJ Cooper; A/Prof GL Wines; A/Prof BF Jackling

Approved Project Title **Modelling factors affecting the long-term demand for and supply of professional accounting and allied services in rural and regional Australia.**

2006 : \$33,319

2007 : \$77,216

2008 : \$80,693

2009 : \$36,797

Primary RFCD 3506 SERVICES

Partner Organisation(s)

CPA Australia

Administering Institution The University of Melbourne

Project Summary

Rural and regional areas accommodate more than a third of Australia's population and generate two-thirds of its net export income. This project will enable the accounting profession to establish effective strategies and policies for the education, training, and recruitment of professional staff in regional communities. Maintaining the quality and viability of professional services is critical to the economic development of these communities and crucial to maintaining equity between city and country. This project will ensure that professional accounting and allied services can meet future regional demands with the potential for this modelling to be applied to other regional services.

LP0669334 Dr HM Goldsworthy; A/Prof EF Gad; Prof B Uy; Dr S Fernando

Approved Project Title **Development of economical beam-column connections for robust composite steel-concrete structural frames**

2006 : \$75,000

2007 : \$150,000

2008 : \$150,000

2009 : \$75,000

Primary RFCD 2908 CIVIL ENGINEERING

APA(I) Award(s): 2

Partner Organisation(s)

OneSteel Market Mills

Ajax Engineered Fasteners

Smorgon Steel Tube Mills

Administering Institution The University of Melbourne

Project Summary

The proposed construction systems will offer a competitive and more robust alternative for developers, building owners and occupants. The successful development of the proposed construction systems will lead to an increased market for blind bolts, steel circular hollow sections, steel Universal Beams and metal decking. An added benefit of the proposed systems is an anticipated improvement in performance, relative to existing systems, under low probability, high consequence events such as 2500-year return period level earthquakes (in the relevant region) or blast loading. These unique and innovative structural solutions should drive the competitive advantage of Australian engineers in international markets.

LP0669397 Prof AF Jorm; Ms B Kitchener; Dr RA Parslow; Prof MG Sawyer; Ms DM Kay

Approved Project Title **Mental Health First Aid Training for Teachers: Development, Evaluation and Dissemination**

2006 : \$21,599

2007 : \$39,453

2008 : \$17,854

Primary RFCD 3212 PUBLIC HEALTH AND HEALTH SERVICES

Partner Organisation(s)

Department of Education and Children's Services

Administering Institution The University of Melbourne

Project Summary

The project aims to provide teachers with training that will assist them to recognize mental health problems which are developing in students and to take appropriate action so that the student gets professional help.

Summary of Linkage Projects Applications for Funding to Commence in 2006

LP0669566 A/Prof AT Kenyon; Prof AF Christie

Approved Project Title Cultural Collections, Creators and Copyright: Museums, Galleries, Libraries and Archives and Australia's Digital Heritage

2006 : \$48,719

2007 : \$99,369

2008 : \$96,594

2009 : \$45,944

Primary RFCD 3901 LAW

APA(I) Award(s): 1

Partner Organisation(s)

Arts Law Centre of Australia

Australian Centre for the Moving Image

Australian Film Commission

Museum Victoria

Museums Australia

National Gallery of Victoria

National Library of Australia

National Museum of Australia

Powerhouse Museum

State Library of Victoria

Administering Institution The University of Melbourne

Project Summary

This project investigates current and emerging ways of using digital collections in museums, galleries, libraries and archives, in light of copyright law and the interests of creators. It serves the strong public interest in facilitating digital access to collections while efficiently managing copyright. Exploiting the potential of digital media and maximising Australia's creative capability both depend on providing adequate incentives for content production while granting access to creative material as a resource for new production. The project will assist Australia better manage its digital cultural collections and balance the interests of creators, institutions and public accessibility.

LP0669580 Prof JS McCalman; Dr J Waller; Prof N Crofts; Prof RG Room

Approved Project Title Turning Points: Redemption, Women and Alcohol in Melbourne, 1870-1945

2006 : \$12,325

2007 : \$12,325

Primary RFCD 3706 HISTORY AND PHILOSOPHY OF SCIENCE AND MEDICINE

APA(I) Award(s): 1

Partner Organisation(s)

Turning Point Drug & Alcohol Centre

Administering Institution The University of Melbourne

Project Summary

History is one of the most effective forms of public communication, currently thriving in the public sphere in books, film, television, and in the passion for genealogy. It can be uniquely effective as a means of public health education, enabling individuals and communities to comprehend the causes and significance of public health problems and their solutions. Alcohol abuse remains a searing issue in Australian public health and private life. This history would be the first to explore the language, practice and experience of both addiction and treatment of alcoholic women, and would contribute to debate over current practice and policy.

Summary of Linkage Projects Applications for Funding to Commence in 2006

LP0669071 A/Prof JF Murphy; Dr GJ Marston; Dr SM Murray; Dr JJ Chalmers; A/Prof M Peel; Prof BM Probert

Approved Project Title **150 low income Australians: a group biography over time**

Project Title

2006 : \$50,000
2007 : \$110,000
2008 : \$115,000
2009 : \$55,000

Primary RFCD 3701 SOCIOLOGY

APA(I) Award(s): 1

Partner Organisation(s)

Jobs Australia

Administering Institution The University of Melbourne

Project Summary

This project has significant potential to contribute social and economic benefits. In 2004-5, the Commonwealth is to spend some \$20 billion on these income support programs, which are received by over 2 million citizens. There is significant national and international policy focus on welfare-to-work measures. Major changes in Australia for PPS and DSP recipients are to be implemented from mid-2006, and the project will enable us to better understand how these changes are experienced. This most recent package of measures is also linked to policy concerns about expanding the workforce as the population ages. The project findings will contribute substantially to the priority goal of strengthening Australia's social and economic fabric.

LP0669186 A/Prof JF Murphy

Approved Project Title **The face of the poor: a history of poverty through the eyes of the St Vincent de Paul Society**

Project Title

2006 : \$12,325
2007 : \$24,650
2008 : \$24,650
2009 : \$12,325

Primary RFCD 4301 HISTORICAL STUDIES

APA(I) Award(s): 1

Partner Organisation(s)

St Vincent de Paul Society Victoria Inc.

Administering Institution The University of Melbourne

Project Summary

This project will develop a detailed understanding of the changing role of the church sector in the provision of 'front-line' social welfare. It will train a postgraduate student in the skills of archival and policy analysis, at a time when many welfare agencies are employing staff in research and policy functions. By focusing on a voluntary organisation, it will provide insight into the historical role of volunteers in Australian welfare. By illuminating how the roles of the church agencies in the mixed economy of welfare have changed over time, the project will contribute to the goal of strengthening Australia's social and economic fabric.

Summary of Linkage Projects Applications for Funding to Commence in 2006

LP0669281 Dr CS Ross; Dr CD McLachlan; Dr B Mante

Approved Project Title **Characteristics and causes of indigenous over-representation in the criminal justice system: A Victorian case-study**

2006 : \$28,106

2007 : \$57,469

2008 : \$29,363

Primary RFCD 3903 JUSTICE AND LEGAL STUDIES

Partner Organisation(s)

Indigenous Issues Unit, Department of Justice

Administering Institution The University of Melbourne

Project Summary

Addressing Indigenous disadvantage was identified as a national priority by the Council of Australian Governments in 2002. Our research builds on this initiative by examining important policy questions that are central to Indigenous disadvantage within the justice system. This research adds substantial value to the existing national investment in the collection of data on Indigenous involvement in justice processes, and will assist in the development and implementation of programs to address what has previously been an intractable problem. A key element in the project is establishing strong links with Indigenous community representatives so that the results of the research are made available to those most directly concerned with them.

LP0669209 Prof A Scott; A/Prof M Shields; Prof J Creedy; A/Prof GR Kalb; Prof CM Duffield; Ms MV McCarty

Approved Project Title **Economic Modelling of the Nurses' Labour Market in Australia**

2006 : \$62,106

2007 : \$129,651

2008 : \$143,013

2009 : \$75,469

Primary RFCD 3402 APPLIED ECONOMICS

Partner Organisation(s)

Department of Human Services

Administering Institution The University of Melbourne

Project Summary

Nurses play an important role in the health system and help to ensure individuals lead healthier, happier and more productive lives. Devising cost-effective policies to ensure an adequate supply of motivated and productive nurses is crucial in achieving efficiency and equity in the health care system. The results will be used by government to help set optimal pay and conditions for nurses, and to ensure that these are competitive with other nurse employers. This will provide a firm evidence-base to reduce nurse shortages and therefore increase the quality of patient care in Australia.

LP0669452 Prof GW Stevens; Miss MP Choong

Approved Project Title **Next Generation of Separation Equipment for Natural Product Extraction**

2006 : \$35,500

2007 : \$71,000

2008 : \$71,000

2009 : \$35,500

Primary RFCD 2906 CHEMICAL ENGINEERING

Partner Organisation(s)

GlaxoSmithKline

Administering Institution The University of Melbourne

Project Summary

The benefit to GlaxoSmithKline will be the potential to upgrade to a more efficient plant which is important for maintaining their competitive position in this global business. The benefit to other Australian processing industries will be an improved understanding of the performance of membrane contactors when used for natural product separation and more specifically a reliable method for controlling fouling in this type of equipment which is a currently a significant industry problem.

Summary of Linkage Projects Applications for Funding to Commence in 2006

LP0668997 Dr SE Swearer; Dr JS Hindell; A/Prof GP Jenkins; Dr AW Western

Approved Project Title **Linking freshwater flows, salt wedge dynamics and fisheries productivity in estuaries**

2006 : \$75,000
2007 : \$120,000
2008 : \$100,000
2009 : \$82,500
2010 : \$27,500

Primary RFCD 2707 ECOLOGY AND EVOLUTION

APA(I) Award(s): 2

Partner Organisation(s)

Environmental Water Reserve and River Health Division, Department of Sustainability and Environment
Fisheries Victoria, Department of Primary Industries
Gippsland Coastal Board
Nicholson Angling Club

Administering Institution The University of Melbourne

Project Summary

Freshwater is a critical resource in Australia, but there is a perception that freshwater running to the sea is wasted. Australia's estuaries are of great importance - economically, socially and environmentally. Estuaries provide habitat for unique and endangered animals and plants, support valuable fisheries, and have enormous recreational value, particularly in regional communities. Our lack of understanding about the effects of freshwater flows on estuarine productivity impedes decision making on the allocation of water to sustain healthy estuaries. The health of Australia's estuaries and sustainability of their resources, particularly fisheries, depend on understanding their freshwater requirements and securing environmental flows.

LP0669435 Dr DN Veitch; Dr J Bolot; Prof R Kotagiri

Approved Project Title **Robust next-generation detection techniques to defend operational networks against attacks.**

2006 : \$47,500
2007 : \$97,500
2008 : \$100,000
2009 : \$50,000

Primary RFCD 2917 COMMUNICATIONS TECHNOLOGIES

APA(I) Award(s): 1

Partner Organisation(s)

Sprint Advanced Technology Labs

Administering Institution The University of Melbourne

Project Summary

As networks are fast becoming one of the pillars of our society, network security is essential. Without good security, networks will be unreliable, more costly, and restricted in the capabilities they can offer. The project will allow advanced anomaly and intrusion detection techniques to be used in the ultra-high speeds of the Internet core. It will provide the groundwork for the attack detection and prevention infrastructure of the future.

Summary of Linkage Projects Applications for Funding to Commence in 2006

LP0669735 Prof LS Yates; Dr J Moss; Dr J White; Dr TT Hay; Dr P Ferguson; Dr M Dixon; Dr L Bond; Dr SE Drew; Dr P St Leger

Approved Project Title **A Multi-disciplinary Investigation of how Trauma and Chronic Illness impact on Schooling, Identity and Social Connectivity**

2006 : \$50,000
2007 : \$95,000
2008 : \$100,000
2009 : \$55,000

Primary RFCD 3399 OTHER EDUCATION

Partner Organisation(s)

Royal Childrens' Hospital Education Institute

Administering Institution The University of Melbourne

Project Summary

School connectedness and retention is an established key to both immediate and long-term health, academic and life outcomes. Young people with chronic illness or accident trauma often miss schooling and get caught in a spiral of catching up and disconnection from important peer relationships and from school. This study investigates the experiences and perspectives of young people whose schooling is disrupted by illness and trauma. It will produce guidelines for better practice by health and schooling professionals and parents of such children, and provide better knowledge about the processes by which disconnection occurs.