

Victoria

The University of Melbourne

LP0883573 Prof AJ Baker; Dr SK Arndt; Mr JD Gregory

Approved Project Title **Combining recycled water use, biofuel production and phytoremediation of contaminated land and biosolids.**

2008 : \$ 50,000

2009 : \$ 100,000

2010 : \$ 100,000

2011 : \$ 50,000

Primary RFCD 2911 ENVIRONMENTAL ENGINEERING

APA(I) Award(s): 1

Collaborating/Partner Organisation(s)

Melbourne Water Corporation

Administering Organisation The University of Melbourne

Project Summary

The storage of biosolids, by-products of sewage treatment, is an environmentally unsustainable practice exacerbated by the presence of inorganic and organic contaminants. Phytoremediation is a plant-based technology which is potentially a cost-effective option for progressive long-term and sustainable clean-up of contaminated soils and sediments. Combining metal extraction by plants with reuse of wastewater and the production of a biofuel will provide multiple benefits of a cleaner environment, water conservation, waste reduction, carbon capture and a reduction in fossil fuel use. Development of such a low-cost combined bioenergy/remediation system will be of considerable local/regional benefit and national significance.

LP0884047 A/Prof P Batterham

Approved Project Title **Identification of the targets of a novel metalloproteinase inhibitor used for the treatment of human head lice**

2008 : \$ 45,000

2009 : \$ 92,500

2010 : \$ 95,000

2011 : \$ 47,500

Primary RFCD 2702 GENETICS

Collaborating/Partner Organisation(s)

Hatchtech Pty Ltd

Administering Organisation The University of Melbourne

Project Summary

Human head lice are difficult to control. This project examines a new type of ovicidal treatment that prevents louse eggs from hatching. The goal is to understand precisely how this treatment is ovicidal, so that even more effective products might be designed. Beyond the benefits of providing a safe and reliable treatment option for a troublesome pest, the development of this product will be a significant step forward for the Australian pharmaceutical industry.

Summary of Linkage Projects Proposals for Funding to Commence in 2008

LP0883437 A/Prof PM Brown; Dr E Care; Prof B Raban; Prof FW Rickards; Mr T O'Connell

Approved Project Title **The Young Learners' Project: Identifying personalised teaching strategies for early literacy in children in preschool and the first year of school**

2008 : \$ 45,000

2009 : \$ 90,000

2010 : \$ 90,000

2011 : \$ 107,734

2012 : \$ 62,734

Primary RFCD 3303 PROFESSIONAL DEVELOPMENT OF TEACHERS

APA(I) Award(s): 1

Collaborating/Partner Organisation(s)

Australian Scholarships Group

Administering Organisation The University of Melbourne

Project Summary

High quality learning experiences coupled with personalised, evidence-based adult support in the preschool years shape children's life-long attitudes and motivation for learning, and form the basis of strong outcomes in adulthood. Of particular importance is the development of literacy. Not all children, however, have such experiences and some need extra support from their families and teachers. From this study knowledge will be gained that will assist teachers and parents to support children before beginning school so that they are prepared for formal literacy learning. This will lead to greater prospects of financial and social benefits in adulthood.

LP0883260 Prof M Considine; A/Prof JM Lewis

Approved Project Title **Activating states: transforming the delivery of 'welfare to work' services to the long-term unemployed in Australia, Great Britain and the Netherlands**

2008 : \$ 49,500

2009 : \$ 98,000

2010 : \$ 48,500

Primary RFCD 3602 POLICY AND ADMINISTRATION

Collaborating/Partner Organisation(s)

Jobs Australia

NESA

Administering Organisation The University of Melbourne

Project Summary

With declining unemployment, the possibility of labour force shortages in future years, and an annual expense of \$20 billion on income support in Australia, policy makers are concerned with increasing the economic participation of social security recipients. This project will provide policy makers and service providers with important comparative assessments of the way policies designed to promote economic participation are executed by frontline staff and will provide essential data for designing policy which is more effective in assisting the unemployed to find sustainable paid employment. It will address the National Research Priority of promoting and maintaining good health through strengthening Australia's social and economic fabric.

Summary of Linkage Projects Proposals for Funding to Commence in 2008

LP0884087 A/Prof JS Evans; A/Prof SV Hanly; Prof S Dey; Dr B Krongold

Approved Project Title **Gigabit Wireless: Setting the Standard for Tomorrow's Broadband**

2008 : \$ 65,285
2009 : \$ 185,652
2010 : \$ 229,211
2011 : \$ 199,220
2012 : \$ 133,932
2013 : \$ 43,556

Primary RFCD 2917 COMMUNICATIONS TECHNOLOGIES

APA(I) Award(s): 2

Collaborating/Partner Organisation(s)

NEC Australia

Administering Organisation The University of Melbourne

Project Summary

This project will strengthen a long-term alliance between researchers at the University of Melbourne and NEC Australia, one of the few multinational research laboratories with significant R & D presence in Australia. Researchers at the University of Melbourne with expertise in communication theory fundamentals will collaborate with experienced research and design engineers at NEC, to produce fundamental research, and the resulting design tools and intellectual property that will provide a new direction for wireless broadband access. The project will provide high-quality postgraduate and postdoctoral training in an area of great relevance to the Australian telecommunications industry.

LP0883896 Prof BJ Galligan; Dr MS Henry-Waring; Dr M Boese

Approved Project Title **Resettling Visible Migrants & Refugees in Regional and Rural Victoria**

2008 : \$ 60,000
2009 : \$ 115,000
2010 : \$ 115,000
2011 : \$ 60,000

Primary RFCD 3701 SOCIOLOGY

APA(I) Award(s): 1

APDI Dr M Boese

Collaborating/Partner Organisation(s)

Municipal Association Victoria

Victorian Multicultural Commission

Administering Organisation The University of Melbourne

Project Summary

Increasing numbers of visible migrants and refugees are settling in rural and regional Australia. Critical knowledge of how this is working is of national significance as it can improve cohesiveness, sustainability and quality of diverse communities and intergovernmental policies. By working directly with our industry partners in local and state government in Victoria, this project will provide concrete examples of good practice which will also be of benefit nationally. The project findings will have far-reaching implications for our understanding of migrant and refugee resettlement in Australia; and will consolidate Australia as an important site of international expertise.

Summary of Linkage Projects Proposals for Funding to Commence in 2008

LP0883300 Dr SL Gras; Dr RR Dagastine; A/Prof SE Kentish; Dr MA Auty

Approved Project Title **From Milk to Curd: Molecular Assembly and Microstructure in Complex Dairy Products**

2008 : \$ 30,000

2009 : \$ 60,000

2010 : \$ 60,000

2011 : \$ 30,000

Primary RFCD 2901 INDUSTRIAL BIOTECHNOLOGY AND FOOD SCIENCES

APA(I) Award(s): 1

Collaborating/Partner Organisation(s)

Dairy Innovation Australia Ltd

Administering Organisation The University of Melbourne

Project Summary

This project will benefit rural and regional dairy communities and manufacturers. It will help offset the negative effects of drought and climate change by increasing productivity, yield and innovation. It should generate at least ten million dollars in increased dairy sales and provide new domestic and export market opportunities. The tools for increased product consistency and international research links will decrease risks in manufacturing and increase competitiveness. Social benefits include increased returns to dairy farmers, improved employment and increased spending in rural and regional areas. The project will also train engineers, addressing a recognised skills shortage and increase environmental sustainability.

LP0884029 Dr DB Grayden; Prof AN Burkitt; Prof HJ McDermott; Dr JM Heasman; Prof Dr T Lenarz; Dr A Buechner

Approved Project Title **Individualized cochlear implant sound coding: Optimized algorithms for better hearing**

2008 : \$ 50,000

2009 : \$ 95,000

2010 : \$ 85,000

2011 : \$ 40,000

Primary RFCD 2802 ARTIFICIAL INTELLIGENCE AND SIGNAL AND IMAGE PROCESSING

APA(I) Award(s): 1

Collaborating/Partner Organisation(s)

Cochlear Limited

Administering Organisation The University of Melbourne

Project Summary

One in six Australians is affected by hearing loss. Hearing loss impacts on a person's educational and employment opportunities, resulting in a significant economic impact upon Australia. Over 10% of people with hearing impairment have a severe or profound hearing loss and may be candidates for a cochlear implant. Current cochlear implant sound processing only offers limited benefit to users. This project represents a truly innovative pathway forward in the development of cochlear implant sound coding that could substantially increase the speech perception of users, enabling these people to become and remain active and productive members of our community.

Summary of Linkage Projects Proposals for Funding to Commence in 2008

LP0883287 Prof AA Hoffmann; A/Prof C Tang; Dr RJ Williams; Dr IM Mansergh

Approved Project Title **An Integrated Assessment of the Impacts of Climate Change on Victorian Alpine Ecosystems: Detecting and Managing Ecological Change**

2008 : \$ 72,000

2009 : \$ 134,875

2010 : \$ 130,750

2011 : \$ 163,250

2012 : \$ 95,375

Primary RFCD 2702 GENETICS

Collaborating/Partner Organisation(s)

Department of Sustainability and Environment
Parks Victoria

Administering Organisation The University of Melbourne

Project Summary

Climate change threatens biodiversity in alpine areas of Australia. This project seeks to predict how plants, soils and small animals will respond to warming and the associated increased risk of bushfire. Our project uses chambers placed out in the field to simulate warming conditions, and measures plant growth and development, and small animal community structure within the chambers. We also assess the effects of climate change on soil processes. The information is used to evaluate the ability of alpine plants and animals to deal with climate change and to identify ways managers can help maintain biodiversity in this fragile ecosystem.

LP0883232 Prof CF Humphreys; Prof SL Swain; Mr GJ McCarthy; Dr AJ Brown-May; Ms C Clare; Mrs M Bamblett; Ms C Asquini

Approved Project Title **Who Am I? The archive as central to quality practice for current and past care leavers (Forgotten Australians)**

2008 : \$ 72,064

2009 : \$ 154,155

2010 : \$ 176,099

2011 : \$ 94,007

Primary RFCD 3702 SOCIAL WORK

APA(I) Award(s): 1

Collaborating/Partner Organisation(s)

Centre for Excellence in Child and Family Welfare
Victorian Aboriginal Child Care Agency
Department of Human Services

Administering Organisation The University of Melbourne

Project Summary

The project responds to the recommendations of the Forgotten Australians and its predecessor Reports about the need to improve record-keeping and archiving practice in the health and welfare sector. In partnership with past and present care-leavers and a consortium of 13 community service organisations, the peak body, and government, it will develop a digital archive utilising innovative technologies which will both enable access to contextual material from the past and provide a model for constructing records in the future, in order to help overcome the ongoing impact which out-of-home care has had on the health of careleavers.

Summary of Linkage Projects Proposals for Funding to Commence in 2008

LP0883427 Prof CF Humphreys; A/Prof B Jordan; Dr JA Smith; Ms NC Watt

Approved Project Title **Cumulative Harm: Reducing child abuse through improved decision-making**

2008 : \$ 12,813

2009 : \$ 25,627

2010 : \$ 25,627

2011 : \$ 12,813

Primary RFCD 3210 CLINICAL SCIENCES

APA(I) Award(s): 1

Collaborating/Partner Organisation(s)

Royal Children's Hospital

Administering Organisation The University of Melbourne

Project Summary

In 2005/06 56,000 cases of child abuse were substantiated in Australia, and this figure is rising exponentially. Disillusionment is growing with an incident based approach to children's safety which fails to either acknowledge or intervene effectively in the cumulative effects of harm to the child's development and well-being. This project uses the leverage of new legislation to re-focus on an earlier intervention with vulnerable children at risk of cumulative harm within a hospital setting. An interdisciplinary lens is brought to the development of new knowledge to provide a better and healthier start to life for this group of children.

LP0883457 Prof LJ Johnston; Dr PJ Anderson; Dr RW Hunt; A/Prof K Spence; A/Prof B Jordan; A/Prof N Badawi

Approved Project Title **The emotional and social burden of caring for a young child with complex health needs**

2008 : \$ 20,048

2009 : \$ 40,097

2010 : \$ 40,097

2011 : \$ 30,048

2012 : \$ 10,000

Primary RFCD 3212 PUBLIC HEALTH AND HEALTH SERVICES

APA(I) Award(s): 1

Collaborating/Partner Organisation(s)

Royal Childrens Hospital

Office for Children

Goulburn Valley Health

Childrens Hospital at Westmead

Administering Organisation The University of Melbourne

Project Summary

The National Agenda for Early Childhood and the Stronger Families and Community Strategy provide a framework for achieving efficient and effective outcomes in early childhood. This project will contribute to those strategies by gaining an understanding of the currently unknown issues faced by the group of families of young infants and children with complex health needs in a variety of geographic, community and service settings, and the government supported services required. The identification of risk and resilience factors will enable the early detection of children at 'high-risk' and provide the opportunity to implement preventative and early intervention programs.

Summary of Linkage Projects Proposals for Funding to Commence in 2008

LP0883237 Dr E Killackey; Prof HJ Jackson; Dr R Scutella; Dr Y Tseng; Prof JI Borland

Approved Project Title **Improving Employment Outcomes in Early Psychosis: Social and Economic Benefits of Early Intervention.**

2008 : \$ 80,400
2009 : \$ 152,959
2010 : \$ 109,743
2011 : \$ 37,184

Primary RFCD 3210 CLINICAL SCIENCES

APA(I) Award(s): 1

Collaborating/Partner Organisation(s)
ORYGEN Research Centre

Administering Organisation The University of Melbourne

Project Summary

Over 74% of people with psychotic illnesses like schizophrenia, despite wanting to work, are unemployed, more than any other disability group. This project examines an evidence-based method in which young people with psychosis can be effectively supported to return to the competitive labour market. In Australia, unemployment of people with schizophrenia costs \$927 million, over half the total illness costs of schizophrenia. For people with psychosis, unemployment exacerbates social and economic marginalisation. This project aims to reduce the economic cost of unemployment among the mentally ill as well as using employment to reduce social marginalisation of people with mental illness.

LP0884108 Dr EL Lamoureux; Dr G Rees; Dr G Tikellis; A/Prof JE Keeffe; A/Prof JJ Wang; Prof TY Wong; Dr R Audehm

Approved Project Title **Overcome Barriers to Optimal Diabetes Management: Randomized Controlled Trial of Education/Consultation Interventions to Improve Self-Management of Diabetes.**

2008 : \$ 17,881
2009 : \$ 55,595
2010 : \$ 95,528
2011 : \$ 93,465
2012 : \$ 57,426
2013 : \$ 21,775

Primary RFCD 3212 PUBLIC HEALTH AND HEALTH SERVICES

APA(I) Award(s): 1

Collaborating/Partner Organisation(s)
Diabetes Australia-Victoria

Administering Organisation The University of Melbourne

Project Summary

In addition to improving self care and quality of life in people with diabetes, the cost effectiveness component of the trial will provide other valuable data. Considering that the costs associated with diabetes and other associated health complications (i.e diabetic retinopathy) are estimated to be more than AU\$10 billion, our intervention has a considerable potential to deliver substantial savings to the Australian community. The study will also generate a closer coordination between primary and tertiary care settings. This proposed trial will contribute substantially to future health policies related to personnel, resources and funding allocated to diabetes, eye health and rehabilitation.

Summary of Linkage Projects Proposals for Funding to Commence in 2008

LP0883727 Dr S Mallett; A/Prof AM Kavanagh; Prof DA Rosenthal; Ms S James
Approved Project Title **Healthier and sustainable futures for disadvantaged young people**
2008 : \$ 33,652
2009 : \$ 67,900
2010 : \$ 69,215
2011 : \$ 34,967
Primary RFCD 3212 PUBLIC HEALTH AND HEALTH SERVICES

Collaborating/Partner Organisation(s)

Melbourne Citymission

Administering Organisation The University of Melbourne

Project Summary

The economic health and social costs to the Australian community of young people who disengage from post-secondary education and employment are immense. Development of National, State and local policy, programs and services for these young people is significantly hampered by a widely acknowledged lack of evidence about disadvantaged young peoples post-compulsory education and employment pathways. This research will establish an evidence base that will inform the development of targeted cross-sectoral government policy and programmatic responses to these young people, improve delivery of relevant health, welfare and education services, thereby enabling disadvantaged young people to create healthier, economically sustainable futures.

LP0883265 A/Prof E Manias; Dr RG Riley

Approved Project Title **Examining healthcare professionals' communication across the surgical pathway to improve patient safety**
2008 : \$ 20,700
2009 : \$ 42,896
2010 : \$ 44,392
2011 : \$ 22,196
Primary RFCD 3211 NURSING

APA(I) Award(s): 1

Collaborating/Partner Organisation(s)

Eastern Health

Administering Organisation The University of Melbourne

Project Summary

Recent data show breakdowns in communication contributed to 16% of sentinel events in Australia, the majority of which were of a surgical nature. Financial costs associated with adverse events are enormous, estimated at around \$A2billion/year. Economic burden is predicted to increase with further complexities surrounding patients' surgical care. This study will result in new knowledge about communication patterns to inform the development of reporting methods and strategies that positively influence the practices of healthcare professionals. Strategies could be extrapolated to the broader healthcare sector, and provide tactical direction aimed at averting clinical errors, preventing patient harm and reducing healthcare costs.

Summary of Linkage Projects Proposals for Funding to Commence in 2008

LP0883825 Dr C Manzie; Prof MC Good; Dr JR Binns; Prof N Bose

Approved Project Title **Enhancing the fidelity of low-cost human-in-the-loop physical sailboat simulators**

2008 : \$ 12,813

2009 : \$ 25,627

2010 : \$ 25,627

2011 : \$ 12,813

Primary RFCD 2301 MATHEMATICS

APA(I) Award(s): 1

Collaborating/Partner Organisation(s)

Virtual Sailing Pty Ltd

Administering Organisation The University of Melbourne

Project Summary

The project will develop a new generation of human-in-the-loop (HiL) sailboat simulators to strengthen R&D within Australia's largest sporting goods market and to increase the participation rates in sailing. The resulting HiL developments will be useful to a wide range of educational, sporting and training applications, including for example motorcycle and automotive driver simulators. Furthermore, the innovative boat-to-boat interaction capability of the simulations will lead to improved aids in high performance yacht racing like the America's Cup.

LP0884052 Dr MA McCarthy; Dr A Boxshall; A/Prof RI Beilin; Dr LB Flander

Approved Project Title **Optimizing the allocation of resources for defending marine protected areas against invasive species.**

2008 : \$ 20,000

2009 : \$ 45,000

2010 : \$ 50,000

2011 : \$ 25,000

Primary RFCD 2707 ECOLOGY AND EVOLUTION

APA(I) Award(s): 1

Collaborating/Partner Organisation(s)

Parks Victoria

Administering Organisation The University of Melbourne

Project Summary

The National Representative System of Marine Protected Areas contributes directly to the protection of marine biodiversity, and to Australia's international obligations under the UN Convention on Biological Diversity. Non-indigenous species have potential to undermine native biodiversity in marine protected areas across Australia. By identifying the most effective strategies for dealing with potential incursions of non-indigenous species in Victorian marine national parks and sanctuaries, the project will make a valuable contribution to the viability of local marine ecosystems and the maintenance of biodiversity. Furthermore, it will provide a template to aid similar decision-making in other marine protected areas around the country.

LP0883942 A/Prof PA Mendis; Prof B Samali; Prof B Uy

Approved Project Title **Innovative Retrofitting Techniques for the Protection of Anchorage Zones in Cable-Stayed Bridges Subjected to Blast Loads**

2008 : \$ 32,500

2009 : \$ 68,500

2010 : \$ 73,000

2011 : \$ 37,000

Primary RFCD 2908 CIVIL ENGINEERING

APA(I) Award(s): 1

Collaborating/Partner Organisation(s)

Road Traffic Authority (RTA)

Administering Organisation The University of Melbourne

Project Summary

The project will seek to develop an innovative technology to retrofit anchorage zones in cable-stayed bridges subjected to close-in detonations and severe impulsive loading, through a comprehensive theoretical and experimental study. The innovative material used for the strengthening purposes developed as part of the study will greatly assist engineers in protection and retrofitting schemes of bridges. The results can be communicated directly to the relevant authorities, thus improving Australia's capabilities in dealing with extreme events.

Summary of Linkage Projects Proposals for Funding to Commence in 2008

LP0883417 Prof W Moran; Dr DQ Huynh; Dr B La Scala

Approved Project Title **Scalable Robust Video Surveillance over Constrained Networks**

2008 : \$ 70,000

2009 : \$ 132,500

2010 : \$ 117,500

2011 : \$ 55,000

Primary RFCD 2802 ARTIFICIAL INTELLIGENCE AND SIGNAL AND IMAGE PROCESSING

APA(I) Award(s): 2

Collaborating/Partner Organisation(s)

SenSen Networks Pty Ltd

Administering Organisation The University of Melbourne

Project Summary

Real-time monitoring of large numbers of people is becoming increasingly important for applications such as efficient service delivery and security against both common crime and terrorism. The use of human operators for such tasks is infeasible due to the large amount of data collected. Existing autonomous video surveillance systems are prone to high numbers of false alarms and often require expensive hardware. This proposal seeks to address both difficulties by using rigorous statistical signal processing methods to optimally fuse information from a network of low-cost cameras.

LP0883933 A/Prof A Rajabifard; Prof IP Williamson; Dr CJ Pettit

Approved Project Title **Automating and integrating spatial data and metadata processes**

2008 : \$ 40,000

2009 : \$ 75,000

2010 : \$ 65,000

2011 : \$ 30,000

Primary RFCD 2910 GEOMATIC ENGINEERING

Collaborating/Partner Organisation(s)

Department of Primary Industries

Department of Sustainability and Environment

Department of Lands NSW

CubeWerx Australia Pty Ltd

AusSoft Pty Ltd

LogicaCMG

Administering Organisation The University of Melbourne

Project Summary

The ability to automatically generate metadata relating to spatial information, and make it available through the Australian SDI will have important benefits not only at an organizational level (with each organization saving time and money in generating their metadata), but at a national level because it will assist delivery of high quality spatial information and services to vast areas of Australia. This will aid in addressing national issues concerned with land management, environmental sustainability, water rights, indigenous land tenure and disaster management, which can only be addressed by having the ability to find and access high quality spatial information.

Summary of Linkage Projects Proposals for Funding to Commence in 2008

LP0883951 Prof PJ Scales; Dr DR Dixon; Dr G Newcombe

Approved Project Title **New approaches to the treatment of potable water in the presence of algal blooms**

2008 : \$ 64,500

2009 : \$ 109,500

2010 : \$ 98,000

2011 : \$ 53,000

Primary RFCD 2906 CHEMICAL ENGINEERING

APA(I) Award(s): 2

Collaborating/Partner Organisation(s)

United Utilities Australia

SA Water

United Water

Melbourne Water

Barwon Water

Administering Organisation The University of Melbourne

Project Summary

The processing of blue green algae rich waters and subsequent release of algal metabolites causes taste and odour problems and toxins that affect potable water safety. This project will define a preferred approach to the processing of these waters and provide quantitative analysis tools to help water authorities guarantee water quality and safety. The defined process routes and analysis procedures will also result in better water conservation (lower net water losses in processing). This will allow better regulation of water quality, safety and management by water authorities and improve consumer confidence in the potable water supply.

LP0883528 Prof CH Schiesser; Dr AS Micallef; Dr U Wille; Mr DM Hall

Approved Project Title **Improving Energy Efficiency through Cool Polymers in Building Materials**

2008 : \$ 12,813

2009 : \$ 25,627

2010 : \$ 25,627

2011 : \$ 12,813

Primary RFCD 2599 OTHER CHEMICAL SCIENCES

APA(I) Award(s): 1

Collaborating/Partner Organisation(s)

PPG Industries

Administering Organisation The University of Melbourne

Project Summary

The advantages of using cool polymers in industrial applications such as building materials are significant. Cooler buildings are a positive contribution to our global environment with reductions in urban heat and smog through energy efficiency. Moreover, by reducing the overall temperature of the surface coating through inclusion and optimization of IR-reflective pigments, this should lead to polymers which are more durable when exposed in exterior environments. It is anticipated that the results from this work will have direct impact on the Australian paint market and potentially the commercial and residential building industries of Australia, combined with obvious economic benefits.

Summary of Linkage Projects Proposals for Funding to Commence in 2008

LP0883309 A/Prof RJ Sloggett; Ms NA Tse; Prof CH Schiesser; Dr SP Best; Prof J Drennan; Prof JL Hunter; Dr TJ Learner; Mr A Durham; Ms Z Anuar

Approved **The twentieth century in paint**

Project Title

2008 : \$ 90,945

2009 : \$ 181,523

2010 : \$ 181,156

2011 : \$ 90,578

Primary RFCD 4003 CURATORIAL STUDIES

APA(I) Award(s): 4

APDI Ms NA Tse

Collaborating/Partner Organisation(s)

Artlab Australia

Getty Conservation Institute

Queensland Art Gallery

National Gallery of Australia

Tasmanian Museum and Art Gallery

National Art Gallery of Malaysia

SEAMEO-SPAFA

Tate Britain

Art Gallery of New South Wales

Administering Organisation The University of Melbourne

Project Summary

The art market is a major contributor to the Australian economy worth over \$500M per annum. However many modern works created with new materials introduced in the 20th century in Australia and Southeast Asia exhibit problems with deterioration, and there is little research on the use and effects of these materials. Without answers to material based preservation questions collectors, curators and conservators cannot make informed decisions. This project, with partners in Australia, Asia, US and UK will provide fundamental information to assist in formulating management strategies, inform curatorship and develop innovative approaches to conservation and the manufacture of art materials.

LP0883719 A/Prof JB Smart; Prof M Quartly; Ms LT Christopherson

Approved **Between State and World: A History of the National Council of Women of Australia**

Project Title **1931-2006**

2008 : \$ 18,559

2009 : \$ 33,328

2010 : \$ 25,386

2011 : \$ 10,617

Primary RFCD 4301 HISTORICAL STUDIES

Collaborating/Partner Organisation(s)

National Council of Women of Australia

Administering Organisation The University of Melbourne

Project Summary

This project brings together academic historians and women active in the National Council of Women of Australia to write its history. The Council and the broad community of women whom it represents benefit by the validation of their shared memories and their sense of common purpose. The Australian community benefits from the renewal of social capital and the culture of political participation pursued by the Council and now celebrated in its history. And the nation benefits from a new knowledge of the role in national and international policy-making played by the largest coalition of its women citizens.

Summary of Linkage Projects Proposals for Funding to Commence in 2008

LP0883889 Prof DW Smith; Prof R Smith; Dr X Shen

Approved Project Title **Estimating The Risk of Preterm Birth Using Blood Tests**

2008 : \$ 52,500

2009 : \$ 105,000

2010 : \$ 105,000

2011 : \$ 52,500

Primary RFCD 2915 BIOMEDICAL ENGINEERING

APA(I) Award(s): 1

APDI Dr X Shen

Collaborating/Partner Organisation(s)

Symbion Health

Administering Organisation The University of Melbourne

Project Summary

This research falls under National Research Priority 'A Healthy Start to Life'. The overall aim of this project is to develop risk estimates for preterm birth that may be used in clinical practice for the management of pregnancy. The project is concerned with developing computational methods, software, and a clinical interface that may be used by obstetricians. As well as identifying women at high risk of preterm birth, this approach will also help identify women at very low risk of preterm birth, and so those women more suited to management by midwives, either in a hospital or home birth setting.

LP0883901 Dr J Torresi; Dr DC Jackson; Dr Il Atmosukarto

Approved Project Title **Enhancing immunogenicity of DNA vaccines by targeted delivery to antigen presenting cells.**

2008 : \$ 40,000

2009 : \$ 40,000

Primary RFCD 3202 IMMUNOLOGY

Collaborating/Partner Organisation(s)

Lipotek Pty Ltd

Administering Organisation The University of Melbourne

Project Summary

Vaccines have proven to be one of the most effective means of preventing infection and also provide promise as a treatment for cancer. However, the range of effective technologies that make possible the delivery of vaccines that can protect against a broad range of infections is limited. DNA based vaccines are attractive because they are relatively easy to produce against a wide range of infections. However, DNA vaccines often provide poor protection against infections. This project will explore a unique technology developed in Australia and that will greatly improve the effectiveness of DNA vaccines against a broad range of diseases.

Summary of Linkage Projects Proposals for Funding to Commence in 2008

LP0883610 Dr CJ Walsh; Dr TD Fletcher

Approved Project Title **Can dispersed, catchment-scale, urban stormwater retention restore stream ecosystems?**

2008 : \$ 50,000

2009 : \$ 97,500

2010 : \$ 87,500

2011 : \$ 87,500

2012 : \$ 67,500

2013 : \$ 20,000

Primary RFCD 2707 ECOLOGY AND EVOLUTION

APA(I) Award(s): 1

Collaborating/Partner Organisation(s)

Melbourne Water

Shire of Yarra Ranges

Administering Organisation The University of Melbourne

Project Summary

This project is a world-first, catchment-scale, experimental test of the benefits of new stormwater treatment approaches to stream health. The project, a collaboration with Melbourne Water and the Shire of Yarra Ranges, integrates river, urban stormwater and water resource management for multiple benefits. It should accelerate the uptake of smart, sustainable technologies in stormwater use and management, and identify better investment strategies for urban water and river management. The robust testing of the effect of new treatment design objectives by a catchment-scale experiment will have a strong impact on research in stream ecology and urban water management.