

South Australia

University of South Australia

LP0989533 A/Prof DM Bagshaw; Dr L Zannettino; Dr SC Wendt

Approved Project Title **Preventing the financial abuse of older people by a family member: Designing and evaluating older-person-centred models of family mediation**

2009 : \$ 33,000

2010 : \$ 43,000

Primary RFCD 3903 JUSTICE AND LEGAL STUDIES

Collaborating/Partner Organisation(s)

Department for Families and Communities

Office for the Public Advocate

Relationships Australia

Alzheimers Australia SA

Guardianship Board

Administering Organisation University of South Australia

Project Summary

The financial abuse of older people is a significant social problem that is likely to intensify as Australia's ageing population continues to rise exponentially over the next twenty years. This project engages a broad range of stakeholders, including older people and their families, in the process of developing specialised models of family mediation to reduce the incidence and severity of financial abuse within a framework that promotes social sustainability and family cohesion. The outcomes of the project, therefore, will have a direct and positive impact on policy and practice in the social and economic care of older people.

LP0989689 A/Prof SR Grano; Dr SL Harmer-Bassell; Dr I Ametov

Approved Project Title **Matching flotation concentrate composition to downstream processing in copper production at the Olympic Dam operations of BHP Billiton.**

2009 : \$ 150,000

2010 : \$ 153,000

2011 : \$ 156,000

Primary RFCD 2907 RESOURCES ENGINEERING

APA(I) Award(s): 2

Collaborating/Partner Organisation(s)

BHP Billiton Olympic Dam Corporation Pty Ltd

Administering Organisation University of South Australia

Project Summary

This research is important for the Australian and South Australian economies. There are both large capital and operating costs benefits if a successful and robust mineral separation can be achieved. Being able to separate different copper sulphide minerals in copper concentrates will have global significance. In the particular case of Olympic Dam mine, the impact of being able to separate the copper sulphide minerals at the mineral processing stage is a significant reduction in operating costs, which is a result of reduced ore handling, mining and smelting costs.

Summary of Linkage Projects Proposals for Funding to Commence in 2009

LP0989758 Prof KP Green; A/Prof SJ Tanner; A/Prof MH Meadows; Prof Dr ML Pearson; Dr AR Romano; Ms JF Skehan; Ms CM McMahon
Approved Project Title **Vulnerability and the news media: Investigating print media coverage of groups deemed to be vulnerable in Australian society, and the media's understanding of their status**
2009 : \$ 30,000
2010 : \$ 30,000
Primary RFCD 4001 JOURNALISM, COMMUNICATION AND MEDIA

Collaborating/Partner Organisation(s)

Special Olympics Australia
Journalism Education Association
Australian Press Council
Hunter Institute of Mental Health
Dart Center for Journalism and Trauma Australasia
Media, Entertainment and Arts Alliance
Australian Multicultural Foundation

Administering Organisation University of South Australia

Project Summary

The media plays a major role informing society about itself. Today, there are considerable divisions within society, sometimes based upon misunderstanding, sometimes ignorance. This project seeks to break down those divisions by helping to train journalists to report knowledgeably on vulnerable groups. By developing protocols which journalists can adopt when reporting on vulnerable groups, the project will add to greater understanding within society about the positive contributions these groups make to the development of Australia and even to international relations.

LP0989229 Dr D Losic; A/Prof J Addai-Mensah; A/Prof IR Neering
Approved Project Title **Advanced Nanoscale Materials Engineered from Diatomaceous Earth**
2009 : \$ 60,000
2010 : \$ 60,000
2011 : \$ 60,000
Primary RFCD 2918 INTERDISCIPLINARY ENGINEERING

Collaborating/Partner Organisation(s)

Mount Sylvania Diatomite Pty. Ltd

Administering Organisation University of South Australia

Project Summary

Using natural materials of diatomaceous earth (DE) as a cheap and available resource by applying synthetic routes this project is directed towards the innovative development of new nanoscale materials with advanced properties. New mesoporous materials with intricate 3-D structures and nano sized features will be engineered from diatom silica for use in demanding applications such as separation and catalysis. These research outcomes will enhance Australia's capacity in frontier technology and advanced materials, as well as bringing a competitive advantage to local industry through the development of such advanced materials.

Summary of Linkage Projects Proposals for Funding to Commence in 2009

LP0989890 Prof L Zhang; Dr J Slay

Approved Project Title **Extraction of Electronic Evidence from Telephone Conversations Carried by the Voice over Internet Protocol (VoIP)**

2009 : \$ 26,140

2010 : \$ 26,140

2011 : \$ 26,140

Primary RFCD 3904 LAW ENFORCEMENT

APA(I) Award(s): 1

Collaborating/Partner Organisation(s)

Australian Federal Police

Administering Organisation University of South Australia

Project Summary

The national benefits of this project are that it meets the National Priority of Safeguarding Australia and the results of this project can serve as a major input into a current Australian Government and Defence initiatives in electronic evidence and intelligence collection. It will play a significant part in satisfying the Australian community that steps are being taken to develop techniques for monitoring the criminal use of the Internet for communication and transfer of information. It will serve to develop niche Australian research expertise in this very specialized international field.

LP0989240 A/Prof LY Zou; Dr L Wang; Mr N Corby

Approved Project Title **New nanocomposites of porous materials and visible light sensitive TiO₂ for efficient wastewater purification**

2009 : \$ 55,000

2010 : \$ 55,000

2011 : \$ 55,000

Primary RFCD 2918 INTERDISCIPLINARY ENGINEERING

Collaborating/Partner Organisation(s)

City West Water Limited

Administering Organisation University of South Australia

Project Summary

The innovative newly proposed materials can trap and efficiently decompose dissolved organics in the same process, without generating any waste for disposal. No UV is required and the solar radiation can be efficiently used. The proposed research will be a significant breakthrough in the field of water treatment that reduces energy consumption, uses low cost materials and provides a real solution. The research findings will be useful to a wide spectrum of manufacturing industries which are currently generating slightly contaminated wastewater, and will be beneficial to the community in general. At the same time, the industries will be a step forward toward sustainable manufacturing.