

Summary of Linkage Projects Proposals for Funding to Commence in 2008

New South Wales

Macquarie University

LP0882453 A/Prof R De Dear; Dr SD White; Dr T Marker; Dr AE Delsante

Approved Project Title **Residential Air Conditioning, Comfort and Demand Response in Australia**

2008 : \$ 170,000

2009 : \$ 39,323

2010 : \$ 25,627

Primary RFCD 3102 BUILDING

APA(I) Award(s): 1

Collaborating/Partner Organisation(s)

Australian Greenhouse Office

Integral Energy

Air-Conditioning and Refrigeration Equipment Manufacturers Association of Australia Inc.

Administering Organisation Macquarie University

Project Summary

Rapid growth in residential air conditioning (AC) ownership will potentially undermine national energy efficiency and greenhouse reduction targets. Furthermore, residential AC is placing a strain on the national electricity system, especially during heat waves when electricity demand peaks. These AC-driven peak loads occur occasionally each summer, but increasing grid capacity to meet them represents a grossly inefficient infrastructure investment. This project will generate Australia's most comprehensive data set on exactly how, when, where, and why residential AC systems are being used. The outcomes will provide a solid platform on which national electricity demand management and AC greenhouse-gas mitigation strategies can be designed.

LP0882270 A/Prof TA Johnston; Dr JM Napier; Mrs K Gilbert; Ms V Dragoje

Approved Project Title **Medical Signbank: sign language planning and development in interpreter-mediated medical and mental health care delivery for deaf Australians**

2008 : \$ 36,228

2009 : \$ 32,614

2010 : \$ 33,964

Primary RFCD 3212 PUBLIC HEALTH AND HEALTH SERVICES

APA(I) Award(s): 1

Collaborating/Partner Organisation(s)

National Auslan Interpreter Booking and Payment Service

Multicultural Health Unit

Administering Organisation Macquarie University

Project Summary

This collaboration between academic linguists, interpreter service providers, health care providers, sign language interpreters, and the Deaf community will improve the recent initiatives to give deaf people equity in their access to health care services. For the first time, deaf people are able to access medical services early and effectively, improving treatment outcomes and, importantly, preventing conditions occurring in the first place or allowing early intervention before they become much more serious and costly to the individual and the community. This project will therefore be of national benefit, as all stakeholders from all over Australia will be able to access the Medical Signbank resource.

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LP0882152 Dr RM Spencer; Dr AY Wise; A/Prof MD Fine; Prof RH Fagan; A/Prof K McCracken; Dr R Dowling; A/Prof RL Howitt; Dr K Tannous; A/Prof KH Millard; Ms LM Giacomelli; Mr J McInerney; Ms JT McNeill

Approved Project Title **Community spirit, social transformation, sustainable partnerships: community capacity building in Parramatta**

2008 : \$ 126,000

2009 : \$ 114,000

2010 : \$ 118,275

2011 : \$ 215,000

Primary RFCD 3701 SOCIOLOGY

APA(I) Award(s): 1

APDI Dr RM Spencer

Collaborating/Partner Organisation(s)

Parramatta City Council

Administering Organisation Macquarie University

Project Summary

This partnership is at the forefront of developments in the provision of community services. The project will contribute to a growing international field of research focused on developing integrated frameworks for measuring community wellbeing. The community capacity building approach will serve as a best practice model for other Australian municipalities. The indicators are a tool for engaging communities in making informal decisions and developing shared goals; a policy tool for evidence based planning; and a reporting tool to track and communicate progress towards agreed goals and outcomes. The outcomes will be efficient use of available funding for community services and lower cost of provision of social welfare.

LP0882722 Dr V Strezov; Prof PF Nelson; Prof BL Gulson; Dr TJ Evans

Approved Project Title **Thermal and environmental investigation of particle degradation during high temperature processing of iron ores**

2008 : \$ 120,000

2009 : \$ 120,000

2010 : \$ 120,000

Primary RFCD 2907 RESOURCES ENGINEERING

Collaborating/Partner Organisation(s)

Hamersley Iron

Administering Organisation Macquarie University

Project Summary

The proposed project aims to understand particle formation and emissions during high temperature processing of iron ores. The project will lead to improvement of particle emission control from existing iron processing technologies and assist in further improvement of their overall performance achieving increased product output and process economics.