

Summary of Linkage Projects Proposals for Funding to Commence in 2007

Victoria

RMIT University

LP0775463 Prof A Baghai-Wadji

Approved Project Title **Higher Order Effects in Miniaturized Piezoelectric Devices**

2007 : \$ 113,708

2008 : \$ 102,818

2009 : \$ 97,320

Primary RFCD 2301 MATHEMATICS

Collaborating/Partner Organisation(s)

EPCOS AG

EPCOS Pte Ltd

Administering Organisation RMIT University

Project Summary

The national benefits of this project are: (a) We will provide opportunities to two postdoctoral researchers to pursue cutting edge research on electromagnetic radiation/scattering and self-heating phenomena in microelectronic devices involving ultrathin lossy electrodes. (b) We will provide industry-oriented research on coating and shielding problems in microelectronic devices to two postgraduate students. (c) We will team up with world leading industrial partners and transfer high-tech know-how to Australia. (d) The outcomes of our research will position Australia as the prime focal point for the design, modelling and simulation of microacoustic devices.

LP0775120 Dr R Horne; Prof JF Fien; Prof S Hamnett; Dr JE Kellett

Approved Project Title **Carbon neutral communities: making the transition**

2007 : \$ 52,000

2008 : \$ 58,000

2009 : \$ 59,000

Primary RFCD 3101 ARCHITECTURE AND URBAN ENVIRONMENT

APA(I) Award(s): 2

Collaborating/Partner Organisation(s)

Manningham City Council

City of Playford

NAGA

ICLEI

MEFL

Community Power

Consumer Affairs Victoria

Administering Organisation RMIT University

Project Summary

This project has well defined National benefits, both economic and social, for the collaborative partners, the business community, policy makers, community groups and the broader Australian community. It contributes toward NRP 1, through developing practical measures for reducing GHG emissions in Australian urban areas, and strategies for overcoming barriers to greater uptake of energy efficiency and alternative technologies; and helping Australia to meet its greenhouse reduction targets. The project economic benefits to through energy savings; stimulating innovation in urban design, building design and transport use; promoting new business opportunities; and encouraging more sustainable lifestyle decisions.

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LP0775361 A/Prof DK Kumar; Prof X Yu

Approved Project Title **Smart Task Allocation Support for Small-Scale Printing Factory**

2007 : \$ 25,118

2008 : \$ 25,118

2009 : \$ 25,118

Primary RFCD 2802 ARTIFICIAL INTELLIGENCE AND SIGNAL AND IMAGE PROCESSING

APA(I) Award(s): 1

Collaborating/Partner Organisation(s)

Valonia MG

Administering Organisation RMIT University

Project Summary

The outcomes will give the Australian small-scale printing industry the capability to be competitive and cost-effective while looking after the wellbeing of its workforce. The understanding of complex relationships between various tasks in small-scale printing environments will improve the wellbeing of workers. The smart computer system will provide a frontier technology that will improve the profitability and efficiency. It will also result in a cutting edge technology that is applicable to other similar industries.

LP0774835 A/Prof JW McCulloch; A/Prof P Miller

Approved Project Title **The role of the Wittenoom Asbestos mine in the lives and deaths of Italian transnational workers**

2007 : \$ 27,118

2008 : \$ 25,118

2009 : \$ 27,118

Primary RFCD 4301 HISTORICAL STUDIES

APA(I) Award(s): 1

Collaborating/Partner Organisation(s)

Italian Australian Institute

Administering Organisation RMIT University

Project Summary

Reconstructing the lives of Italian workers in the context of transnational migration and the mining of one of the worlds' most hazardous minerals is significant in itself as part of Australian historical record. To the Italian community, the story exemplifies the disproportionate contributions and sacrifices of postwar migration. Importantly, the evidence produced will be of use in improving public health and policy responses to the legacy of asbestos disease, both in Australia and in Italy. In drawing on Italian and Australian scholarship, community networks and government initiatives, the project will provide valuable training to a doctoral candidate, and contribute to furthering the practical internationalisation of Australian research.

LP0775104 Dr JL Shaw; Dr MJ Mulligan; Dr M Clarke; A/Prof DC Mercer

Approved Project Title **Rebuilding Sustainable Communities: Assessing Post-Tsunami Resettlement Projects in Indonesia, Sri Lanka and India.**

2007 : \$ 25,726

2008 : \$ 66,916

2009 : \$ 20,250

Primary RFCD 3704 HUMAN GEOGRAPHY

Collaborating/Partner Organisation(s)

AusAID

Foundation for Development Co-operation

Administering Organisation RMIT University

Project Summary

It is in the interests of Australia and nations in our regions to improve strategic responses to natural disasters. In addition to their catastrophic short-term effects, disasters sharply reduce employment and output and strain limited state capacity, increasing poverty and inhibiting the prospects for longer-term economic growth and social stability. The development of measures which support the effective rebuilding of social structures and economic activity is key to minimising adverse outcomes. By enriching our understanding of how best to support sustainable resettlement programs, the study responds to the national research priority goal of 'Safeguarding Australia: understanding our region and the world'.