

Western Australia

Curtin University of Technology

LP0991305 Prof SM Aoun; A/Prof MC Oldham; Prof LJ Kristjanson; Dr HM Chochinov; Dr B Bennett

Approved Project Title **Dignity Therapy: A Novel Psychotherapeutic Intervention for Motor Neurone Disease (MND) Patients near the End of Life.**

2009 : \$ 13,070

2010 : \$ 26,140

2011 : \$ 26,140

2012 : \$ 13,070

Primary RFCD 3212 PUBLIC HEALTH AND HEALTH SERVICES

APA(I) Award(s): 1

Collaborating/Partner Organisation(s)

Motor Neurone Disease Association of Western Australia

Administering Organisation Curtin University of Technology

Project Summary

Considering the scarcity of effective interventions for the kinds of distress and suffering that so commonly occur amongst MND dying patients, this novel therapeutic intervention could become a very easy, practical intervention adopted within palliative care facilities and MND organisations. Unlike most palliative care interventions, this approach, leading to the production of a generativity document, has the important added potential benefit of being a powerful bereavement intervention for carers. The potential benefits of this intervention could lead to a reduction in in-patient admissions and a reduced need for respite for both the person with MND and the family carer.

LP0990610 Prof TS Dillon; Prof E Chang; Dr V Potdar; Prof G Martin; Mr D Snook; Dr J Singh

Approved Project Title **Congestion management in key road networks of a major city through real time data collection, intelligent forecasting and real time routing**

2009 : \$ 52,365

2010 : \$ 104,731

2011 : \$ 104,731

2012 : \$ 52,365

Primary RFCD 3504 TRANSPORTATION

APA(I) Award(s): 1

APDI Dr J Singh

Collaborating/Partner Organisation(s)

Main Roads of Western Australia - Government of Western Australia

Planning and Transport Research Centre (PATREC)

Administering Organisation Curtin University of Technology

Project Summary

The project researches the issues for allowing Australian Road Traffic Authorities to automatically capture road traffic data, forecast traffic flows and smartly route traffic flows to avoid congestion on road networks. This will lead to several benefits, such as (a) reducing traffic congestion, shorten travel time and lower pollution, (b) better utilization of existing road infrastructure by diffusing traffic to alternate routes, (c) provide economic benefit by allowing one to delay infrastructure expansion, (d) monitoring of aberrant behaviour by road users to ensure a safer road environment, and (e) improved flexibility in deployment of the Wireless Sensor Network to meet the needs of the road authorities and community.

Summary of Linkage Projects Proposals for Funding to Commence in 2009

LP0990631 Prof PW Newman; Prof DV Marinova; Prof Dr GE Ho; Dr M Anda; Mr EA Oldmeadow; Mr DJ Bilsborough; Mr B McMahon

Approved Project Title **Decarbonising Cities and Regions**

2009 : \$ 47,000

2010 : \$ 94,000

2011 : \$ 108,000

2012 : \$ 61,000

Primary RFCD 3101 ARCHITECTURE AND URBAN ENVIRONMENT

Collaborating/Partner Organisation(s)

Parsons Brinckerhoff (PB) Australia

North Port Quay Pty Ltd

Cedar Woods Properties Limited

Horizon Power

Administering Organisation Curtin University of Technology

Project Summary

The Federal Government's Greenhouse Friendly Initiative certifies carbon neutral products as one way of achieving innovation and decarbonising cities and regions as climate change emerges as the major area of global concern and competition. This project is the first to conceptualise the certification of carbon neutral and carbon free land development. It brings together an innovative team from academia, industry and government to provide options for reducing energy in all aspects of urban and remote land development, including renewable energy in buildings, transport and infrastructure. Industry and community interest in the outcomes will be high and certifiers in government will be provided with an important new model and tool.

LP0990455 Prof B Rasmussen; Dr IR Fletcher; Dr JR Muhling; Dr S Sheppard; Dr AM Thorne; Dr SP Johnson; Dr C Kirkland

Approved Project Title **Developing a new tectonothermal and mineralization history for the Capricorn Orogen, Western Australia: Assisting mineral exploration in greenfields terrains**

2009 : \$ 30,000

2010 : \$ 60,000

2011 : \$ 60,000

2012 : \$ 30,000

Primary RFCD 2601 GEOLOGY

Collaborating/Partner Organisation(s)

Department of Industry and Resources

Administering Organisation Curtin University of Technology

Project Summary

Successful exploration models rely on the development of a reliable geological framework through which to understand the specific processes responsible for the formation of economic ore deposits. A framework cannot be constructed without robust age data. This Project will apply advanced geochronology, combined with regional- and deposit-scale field mapping, to formulate a new and improved stratigraphic and tectonic framework for a prospective greenfields region in Western Australia. Outcomes from this Project will lead to more effective exploration models and thereby better exploration targeting. Reducing uncertainty and risk in exploration is key to the discovery and development of deep Earth resources.

Summary of Linkage Projects Proposals for Funding to Commence in 2009

LP0990914 A/Prof GW Wardell-Johnson; Dr KP Van Niel; Dr C Yates; Dr M Byrne; Prof SD Hopper; Prof L Mucina; Prof SE Franklin

Approved Project Title **Protecting the safe havens: will granite outcrop environments serve as refuges for flora threatened by anthropogenic climate change?**

2009 : \$ 65,000

2010 : \$ 130,000

2011 : \$ 100,000

2012 : \$ 35,000

Primary RFCD 3008 ENVIRONMENTAL SCIENCES

Collaborating/Partner Organisation(s)

Department of Environment and Conservation

AAMHatch

Administering Organisation Curtin University of Technology

Project Summary

Anthropogenic climate change threatens the Earth's biota and human society. By identifying areas that can act as refuges under projected climate conditions, adaptation and conservation activities can be focused where they will provide greatest benefit. This transdisciplinary project in the Australian global biodiversity hotspot examines the role of granite outcrops as safe havens for species in the face of climate change. Knowing areas where species will retreat and maintain biodiversity under climate change will support decision making for protection of key refuges. Large financial, social and biodiversity returns follow from implementation of effective climate change adaptation management programs in Australian landscapes.