

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2010 by State and Organisation

Western Australia

Curtin University of Technology

LP100100285 A/Prof Cynthia A Joll, A/Prof Anna Heitz, Prof Urs von Gunten

Approved Project Title **Novel water treatment technologies for minimisation of bromide and iodide in drinking water**

2010 \$125,000.00

2011 \$125,000.00

2012 \$150,000.00

2013 \$110,000.00

Primary FoR 0301 ANALYTICAL CHEMISTRY

APAI 1

Partner Organisations

Water Corporation of WA, Water Quality Research Australia Ltd

Administering Organisation Curtin University of Technology

Project Summary

This project will develop innovative new water treatment processes to selectively remove bromide and iodide from potable source waters. The project promotes Australia as a leader in water treatment technology. Successful outcomes will have excellent potential for international commercialisation by spin-off companies and will provide economic benefits and prestige locally. Economic benefits include lower costs to water utilities through the availability of improved technology for treatment of marginal quality water supplies and improved ability to comply with water quality guidelines. Public perception and confidence in water supply quality will be enhanced, due to reduction in taste and odour issues and disinfection by-products.

LP100100798 A/Prof Richard Midford, Dr Helen W Cahill, A/Prof Tanya Chikritzhs, Prof David R Foxcroft

Approved Project Title **School drug education for junior high school students in Victoria - Assessing the impact of a state-wide, evidence-based intervention**

2010 \$131,716.00

2011 \$76,276.00

2012 \$69,206.00

Primary FoR 1117 PUBLIC HEALTH AND HEALTH SERVICES

Partner Organisations

Department of Education and Early Childhood Development

Administering Organisation Curtin University of Technology

Project Summary

Young people are faced with numerous and powerful influences to use both legal and illicit drugs, and drug education can play an important counterbalancing role in shaping a normative culture of safety, moderation and informed decision making in this group. The research will develop, implement and evaluate one all encompassing, evidence-based, drug education program for junior high school students across Victoria. The study is unique in its size and scope and will be of national benefit because its findings will influence the nature of future drug education in all secondary schools in Australia.

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LP100100734 Prof Hamid R Nikraz, Dr Peerapong Jitsangiam, Mr David B Harris, Mr Ross Keeley
Approved Project Title **Performance, Evaluation, and Enhancement of Hydrated Cement Treated Crushed Rock Base (HCTCRB) as a Road Base Material for Western Australian Roads**

2010 \$30,000.00
 2011 \$30,000.00
 2012 \$30,000.00
 Primary FoR 0905 CIVIL ENGINEERING
 APAI 1

Partner Organisations

Main Roads Western Australia

Administering Organisation Curtin University of Technology

Project Summary

The development of knowledge of HCTCRB, an advanced material in the pavement engineering discipline, will underpin growth in the highway and road construction industry. The key outcomes of this study will enhance and change highway and road organisations, contractors, engineers and others interested in the use and design of pavement materials. This is particularly so in light of the recent change to a new era of analytical approaches, rather than the empirical approach of the past. When the outcomes of this project are applied, they will result in an improvement in overall road and highway quality.

LP100100433 Prof Sven E Nordholm, Dr Yee Hong Leung
Approved Project Title **Improved design of hearing protection devices with binaural voice pick-up and hearing loss compensation**

2010 \$110,000.00
 2011 \$110,000.00
 2012 \$138,000.00
 Primary FoR 0906 ELECTRICAL AND ELECTRONIC ENGINEERING
 APAI_IT 2

Partner Organisations

Sensear Pty Ltd

Administering Organisation Curtin University of Technology

Project Summary

Hearing protection is essential to industries operating under extreme noise conditions. However, conventional hearing protection devices such as earplugs and earmuffs inhibit face-to-face communications. Sensear has developed and marketed a world-first product that, apart from overcoming the aforesaid limitation, also gives the wearer a perception of his surrounding sound field. This project seeks to extend Sensear's products to include compensation for people with hearing loss. This will give Sensear a competitive edge in hearing protection products, and enhance Australia's reputation in assistive hearing technology. The project also presents a number of opportunities to provide industry-focussed research training to PhD students.

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LP100100266 Prof Sherry Sagers, Prof Helen R Wildy, Prof Thiagarajan Sitharthan, Dr Amanda G Wilson, A/Prof Katherine M Conigrave, Dr Tim Marchant, Ms Anne C Hampshire, A/Prof Jagdish K Dua, Ms Carmen Acosta, Mr Allan Colthart

Approved Project Title **What difference does treatment make? Psychometric properties of a measure of young people's progress in residential rehabilitation**

2010 \$52,000.00

2011 \$62,000.00

2012 \$55,000.00

Primary FoR 1601 ANTHROPOLOGY

Partner Organisations

Department of Health WA, Mission Australia, NSW Health, Sydney Southwest Health, Ted Noffs Foundation

Administering Organisation Curtin University of Technology

Project Summary

This research is expected to: enhance evidence-based treatment outcome measures in residential rehabilitation services in WA, NSW and the ACT; provide high-quality research training for alcohol and other drug service staff; and contribute to long-term collaborative relationships between five partner organisations, five universities, and addiction specialists which will assist ongoing service quality improvement. Enhancing the effectiveness of alcohol and other drug treatments for young people will also address the National Health Priority of injury prevention as young people are one of three groups at higher risk of harm.