

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

## Victoria

### Victoria University

**LP100100558** Prof Dorothy Bruck, Cmdr Frank Stockton

**Approved Project Title** **Improving the identification of juvenile firesetters at high risk of recidivism**

2010	\$26,669.00
2011	\$26,669.00
2012	\$26,669.00
Primary FoR	1701 PSYCHOLOGY
APAI	1

#### Partner Organisations

Country Fire Authority, Victoria Metropolitan Fire Brigade

**Administering Organisation** Victoria University

#### Project Summary

Young firesetters are not only responsible for some fifth of all fires, they also are at risk of becoming adult arsonists. Australian fire services provide educational programs for young firesetters but about a third may continue to light fires. This project will allow clarification of variables most associated with ongoing firesetting behaviour (recidivism), better prediction of high risk juveniles, understanding of the predictive value of a screening tool, valid assessment of recidivism rates and an increased understanding of mental health agency involvement with firesetter families. These outcomes will help improve programs involving juvenile firesetters, thereby reducing arson and the high cost of uncontrolled fire.

**LP100100103** A/Prof Mikel C Duke, Prof Stephen R Gray, Dr Andrew M Groth

**Approved Project Title** **Improving the Durability and Performance of Hollow Fibre Membranes with Nanocomposite and Inorganic/organic Hybrid Materials**

2010	\$26,669.00
2011	\$26,669.00
2012	\$26,669.00
Primary FoR	0904 CHEMICAL ENGINEERING
APAI	1

#### Partner Organisations

Siemens Water Technologies

**Administering Organisation** Victoria University

#### Project Summary

Water is a critical resource for societies worldwide and Australia is one of the driest nations on Earth. Options to treat 'used' or lower quality waters for reuse are becoming a necessity. This project aims to implement advanced nanotechnology solutions to improve performance characteristics of widely adopted water treatment membranes, which have the potential to reduce water treatment costs in Australia. This is made possible by the collaboration with Australia's largest manufacturer of water treatment membranes. The outcomes will lead towards a lower maintenance water treatment technology available to communities, at lower cost. The application of such a technology will span from local small scale to major installations worldwide.

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**LP100100624** A/Prof Yuan Miao, Prof Yanchun Zhang

**Approved Project Title** **Data Exchange and Service Integration with Applications in Health Information Systems**

2010 \$104,151.00

2011 \$104,151.00

2012 \$104,151.00

Primary FoR 0806 INFORMATION SYSTEMS

APAI\_IT 1

### Partner Organisations

Westgate General Practice Network

**Administering Organisation** Victoria University

### Project Summary

This project will research and develop an innovative new approach to facilitate real data exchange and service integration across different medical organisations. This approach will significantly improve the quality of health care by providing a solid foundation for integrated medical services, offering on demand and effective access to fragmentally stored patients medical information and minimise the number of data entry errors injected into the medical information systems. The novel integration model will also enable a new autonomous approach for demographic data collection which is essential for evidenced resource allocation, policy making and disease prevention.

**LP100100554** Prof Chris Perera, Dr Andrew F Barton

**Approved Project Title** **Multi-Objective Planning and Operation of Water Supply Systems Subject to Climate Change**

2010 \$26,669.00

2011 \$26,669.00

2012 \$26,669.00

Primary FoR 0905 CIVIL ENGINEERING

APAI 1

### Partner Organisations

Grampians Wimmera Mallee Water Corporation trading as GWM Water

**Administering Organisation** Victoria University

### Project Summary

Water is precious, and increasingly scarce. Many Australians – householders, businesses, farmers, those concerned about sustainability and the environment, among others – have diverse preferences about water allocation. Yet the operating rules that water supply system managers currently use were designed when water was comparatively plentiful. This project will assist system managers to develop contemporary rules for water allocation decision-making. A case study of the Grampians headworks system in Victoria will provide the opportunity to trial methods that account for diverse stakeholder preferences in the context of climate change and climate variability, including drought events.