

# Summary of Linkage Projects Proposals for Funding to Commence in 2009

## Victoria

### University of Ballarat

**LP0990908** Dr A Bagirov; Prof JL Yearwood; Prof W Moran; Dr AF Barton

**Approved Project Title** **Integrating dynamic and optimization models for efficient pipeline system operations in an evolving water and energy market**

**2009 :** \$ 32,500

**2010 :** \$ 65,000

**2011 :** \$ 57,500

**2012 :** \$ 25,000

**Primary RFCD** 2301 MATHEMATICS

APA(I) Award(s): 1

#### **Collaborating/Partner Organisation(s)**

Grampians Wimmera Mallee Water Corporation trading as GWM Water

**Administering Organisation** University of Ballarat

#### **Project Summary**

Developing an integrated dynamical and optimisation model for a piped water distribution system will advance Australia's capacity to deploy the most recent optimisation approaches to achieve the high level of efficiency required in the delivery of water to dryland regions. The outcomes of this project will be readily transferable to other regions and indeed other water distribution systems. This will provide capability in securing Australia's water supplies and delivery systems. There may also be associated benefits to other pipeline operators in the oil and gas industries.

**LP0990642** Dr SK Florentine; Prof PA Gell; Prof ME Westbrooke

**Approved Project Title** **Catchment restoration: generating prescriptions for evidence-based best practice in the future, from experience of the past**

**2009 :** \$ 18,622

**2010 :** \$ 37,986

**2011 :** \$ 39,484

**2012 :** \$ 20,120

**Primary RFCD** 3008 ENVIRONMENTAL SCIENCES

#### **Collaborating/Partner Organisation(s)**

Corangamite Catchment Management Authority

Glenelg-Hopkins Catchment Management Authority

Parks Victoria

**Administering Organisation** University of Ballarat

#### **Project Summary**

Catchment management programs, supported by substantial government finances, have been leading landscape rehabilitation measures across Australia for more than a decade. Few, if any, projects assessed the outcomes of the measures in terms of action success, plant survivability, landscape stabilisation and water resource benefit. This project will audit the proposed and actual rehabilitation measures undertaken in five catchments and assess the modern condition of plantations, catchments and waterways. Lessons from this audit will generate prescriptions that will be integrated into a web decision support system optimising the outcomes from future catchment management in terms of biodiversity, landscape stability and stream condition.

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**LP0990206** Prof W Payne; Prof J Smyth; A/Prof A Telford  
**Approved Project Title** Promoting physical activity and wellbeing of rural- and regional-living girls  
**2009 :** \$ 49,033  
**2010 :** \$ 98,067  
**2011 :** \$ 98,067  
**2012 :** \$ 49,033  
**Primary RFCD** 3212 PUBLIC HEALTH AND HEALTH SERVICES

### **Collaborating/Partner Organisation(s)**

Victorian Health Promotion Foundation  
Sport and Recreation Victoria  
YMCA Victoria  
Tennis Victoria  
Football Federation Victoria

**Administering Organisation** University of Ballarat

### **Project Summary**

This research will attempt to improve the physical activity levels and the physical and mental wellbeing of girls who live in disadvantaged and isolated rural and regional areas. This will be achieved by working with the girls to find ways to improve their involvement in sport and active recreation. This information will be used to develop, implement and evaluate a year-long sport and active recreation program that is offered in both schools and the community. The research will occur in Victoria and will involve girls in years 7-9 of secondary school. It will involve the sports of tennis and football (soccer) as well as the active recreation opportunities offered by the YMCA.