

Summary of Linkage Projects Applications for Funding to Commence in 2006

South Australia

The Flinders University of South Australia

LP0668023 Prof HJ Fallowfield; A/Prof NJ Cromar; A/Prof SM Thomas; Dr P Hallsworth; Dr JB Nixon

Approved Project Title **Determination of factors effecting pathogen removal in lagoons treating and storing effluent for reuse**

2006 : \$70,000

2007 : \$60,125

2008 : \$48,000

Primary RFCD 2703 MICROBIOLOGY

APA(I) Award(s): 1

Partner Organisation(s)

United Water International Pty Ltd

Administering Institution The Flinders University of South Australia

Project Summary

Waste stabilisation ponds are a preferred treatment option for wastewater in many rural and remote communities within Australia and overseas because of their low-tech, robust structure. Reducing numbers of pathogens in the final treated effluent of these systems so that it can be reused, will minimise risks to the public and the environment and improve management of this sustainable water resource throughout the region. This research also provides an opportunity for Australia to export knowledge on the efficient use of these systems to 2.4 billion people worldwide currently without access to affordable sanitation.

LP0667714 Prof JF Roddick; A/Prof PR Calder

Approved Project Title **Managing and Mining Evolving Ontologies through combining Patterns Languages and Data Mining**

2006 : \$49,300

2007 : \$49,300

2008 : \$49,300

Primary RFCD 2801 INFORMATION SYSTEMS

APA(I) Award(s): 2

Partner Organisation(s)

ASERNIP/Royal Australasian College of Surgeons

Australian Computer Society Inc, SA Branch

Administering Institution The Flinders University of South Australia

Project Summary

Data mining offers insight into the substantial and growing repositories of medical data while pattern languages offer the ability to provide a high level conceptual designs of an artifact or process. This project thus promises to facilitate, on the one hand, the discovery of medical knowledge from large quantities of clinical or epidemiological data, while also providing a better way of constructing and validating medically oriented design patterns which can then be used in medical data collection systems.