

Summary of Linkage Projects Applications for Funding to Commence in 2006

Tasmania

University of Tasmania

LP0668018 Dr GJ Davidson

Approved Project Title **Genesis of platinum group element-rich, unconformity-style, hydrothermal mineral deposits, as inferred from a Northern Territory example.**

2006 : \$24,650

2007 : \$24,650

2008 : \$24,650

Primary RFCD 2601 GEOLOGY

APA(I) Award(s): 1

Partner Organisation(s)

Northern Territory Geological Survey

Administering Institution University of Tasmania

Project Summary

Mineral products currently provide a great deal of Australia's exports to international markets, and underpin much of our economy. However, Australia can only maintain this position through continued improvement of mineral discovery rates, particularly for high value, deep earth resources. This project aims to improve the likelihood of the discovery of higher value hydrothermal orebodies. This will improve the value of mineral exports, raise exploration levels in some Australian provinces (thus stimulating economic activity in regional and industrial sectors), and help invigorate training within the geoscience arm of the university sector.

LP0667694 Dr ME Robertson; Dr AE Fluck; Mr M Ragus

Approved Project Title **'Always on' Learning Communities: M-Learning landscapes transforming school cultures**

2006 : \$104,000

2007 : \$90,000

2008 : \$104,000

Primary RFCD 3301 EDUCATION STUDIES

APA(I) Award(s): 1

Partner Organisation(s)

Tasmanian Department of Education

Victorian Department of Education and Training

Administering Institution University of Tasmania

Project Summary

Australia is going online: Internet access in Australian business is close to 100 percent and is almost 60 percent in households (ABS 2005). Ownership of mobile devices is growing at 10 percent each year and by the end of 2007 it is predicted by Telstra that close to 90 percent of the Australian population will own a mobile device. There has been a government commitment of \$73 million for the development of online curriculum content in Australia and New Zealand. However, there has been limited research to inform the use of such content in classrooms and no reference to the possibilities of using mobile devices. Sustainable futures rely on the relevant preparation of our young people to succeed in the knowledge society.

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LP0667925 Dr JE Sargison; Prof GM Hallegraeff; Dr JE Osborn; Dr GJ Walker; Dr PA Brandner

Approved Project Title **Skin friction control using engineering and biological surface coatings**

2006 : \$69,372

2007 : \$68,678

2008 : \$63,371

Primary RFCD 2908 CIVIL ENGINEERING

APA(l) Award(s): 2

Partner Organisation(s)

Hydro Tasmania

Administering Institution University of Tasmania

Project Summary

The development of techniques to reduce skin friction in water conveying assets will increase renewable energy production from existing hydro-electric plant and improve the energy efficiency of water conveying utilities. There is also potential for application to marine biofouling problems and reducing fuel usage by shipping. Passive (non-chemical) and biological control methods to reduce fouling and friction will be sought to minimise environmental impact and maintain potable water quality. This multidisciplinary project combining engineering, photogrammetry and biological sciences will provide valuable training for the project team members and develop a pool of skilled personnel available to Australian industries.

LP0667635 Dr CR Wilson; Dr NW Davies; Mr P Frost; Mrs TC Longbottom

Approved Project Title **Phytochemistry Of Thrips Resistance In Potato And Its Influence On Acquisition And Transmission Of Tomato Spotted Wilt Virus**

2006 : \$95,000

2007 : \$87,875

2008 : \$73,000

Primary RFCD 3003 HORTICULTURE

Partner Organisation(s)

McCains Foods (Australia) Pty Ltd

Administering Institution University of Tasmania

Project Summary

TSWV causes multi-million dollar losses to the Australian potato industry, which is the countries largest and most valuable vegetable commodity and an important source of income and employment for rural communities. Development of TSWV epidemics relies on the activity of vector thrips acquiring virus from infected plants and transmitting it to healthy potatoes. Deployment of thrips resistant potato would greatly assist disease control. This project will determine the efficacy of thrips resistance in reducing TSWV epidemics and identify the chemical basis of resistance, which could be used as a screening tool for potato breeding, and could form the basis of a synthetic chemical tool for thrips prevention in potato and other crops.