

**Victoria**

**Swinburne University of Technology**

**LP0883888** Dr AV Babanin; Prof IR Young; Prof WR Phillips; Prof AM Donelan; Dr V Makin; Dr F Arduin

**Approved Project Title** **Oceanic Conditions within Extreme Tropical Cyclones**

**2008 :** \$ 135,000

**2009 :** \$ 205,000

**2010 :** \$ 120,000

**2011 :** \$ 50,000

**Primary RFCD** 2912 MARITIME ENGINEERING

APA(I) Award(s): 1

**Collaborating/Partner Organisation(s)**

Woodside Energy Ltd.

**Administering Organisation** Swinburne University of Technology

**Project Summary**

Australia's tropical and subtropical areas include major infrastructure projects such as the North West shelf oil and gas projects, major mining operations, export ports, natural environments such as the Great Barrier Reef and major tourism industries. All these industries are crucially impacted by extreme tropical cyclones. Despite the importance of these systems, our present understanding of tropical cyclones is incomplete. This project will significantly enhance our ability to carry out accurate engineering design of critical offshore infrastructure, as well as marine forecasts in such environments. As such, the project will have major scientific, economic and social benefits for Australia.

**LP0884003** Prof DP Crewther; Dr A Pipingas; A/Prof SG Crewther; Prof AJ Sinclair

**Approved Project Title** **Biomarkers and objective assessment of cognitive and brain effects of fish oil dietary supplementation**

**2008 :** \$ 12,813

**2009 :** \$ 25,627

**2010 :** \$ 25,627

**2011 :** \$ 12,813

**Primary RFCD** 3801 PSYCHOLOGY

APA(I) Award(s): 1

**Collaborating/Partner Organisation(s)**

Novasel Australia Pty Ltd

**Administering Organisation** Swinburne University of Technology

**Project Summary**

There are potential widespread community benefits from knowing whether consuming fish oils will improve cognitive function. This is manifest in children and even more so in those suffering attention deficits at a time when inattention and hyperactivity is likely to permanently lower their overall career prospects.

## Summary of Linkage Projects Proposals for Funding to Commence in 2008

**LP0883848** A/Prof KJ Hulse; A/Prof DJ MacKenzie; Dr A Hollows

**Approved Project Title** **Families on the Edge: Lived Experiences of Citizenship of Homeless Families**

**2008 :** \$ 18,321

**2009 :** \$ 36,373

**2010 :** \$ 36,042

**2011 :** \$ 17,991

**Primary RFCD** 3701 SOCIOLOGY

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

Hanover Welfare Services

**Administering Organisation** Swinburne University of Technology

### **Project Summary**

Families on the Edge will provide an in-depth understanding of the lived experiences of homeless families, comprising predominantly women and children, who are one of the most marginalised and under-researched groups in Australian society. The findings will enable governments and not-for-profit agencies to improve services for homeless families to improve their health and well being. They will also inform policy debates about other approaches which draw on human rights and the rights/responsibilities of citizenship. The projects findings will provide a sound framework and empirical basis for improvements to legislation, policy and practice across a range of areas.

**LP0883584** Dr PR Stoddart

**Approved Project Title** **Optical Fibre Touch Sensor for Cochlear Implants**

**2008 :** \$ 30,000

**2009 :** \$ 60,000

**2010 :** \$ 60,000

**2011 :** \$ 30,000

**Primary RFCD** 2404 OPTICAL PHYSICS

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

Cochlear Ltd

**Administering Organisation** Swinburne University of Technology

### **Project Summary**

The touch sensor will be part of a cochlear implant, which is surgically implanted to provide a sense of hearing for people who are profoundly or severely deaf. Approximately 100,000 people worldwide have received cochlear implants so far. However, the delicate internal structures of the ear can easily be damaged when the implant is inserted. By helping surgeons to preserve the inner ear, this sensor will help to further improve the hearing ability of future patients. The 'bionic ear' was invented in Australia and this project will help to ensure the continued success of Australia's world leading implant industry.

## Summary of Linkage Projects Proposals for Funding to Commence in 2008

**LP0884065** Prof P Taylor; A/Prof L Brooke; Prof PF McDonald; Prof L Rolland; Prof MA Steinberg

**Approved Project Title** **Working late and the spectre of uselessness: Sustaining labour supply in a globalising economy**

**2008 :** \$ 61,500  
**2009 :** \$ 123,000  
**2010 :** \$ 105,000  
**2011 :** \$ 43,500

**Primary RFCD** 3502 BUSINESS AND MANAGEMENT

APA(I) Award(s): 1

**Collaborating/Partner Organisation(s)**  
Queensland Department of Employment & Industrial Relations  
Infohrm  
APOP

**Administering Organisation** Swinburne University of Technology

### Project Summary

A buoyant economy and strong employment growth resulting in unfilled vacancies is frustrating business. Population ageing may exacerbate this, reducing labour supply and consequently industrial output. To assist, the Government is recommending increased employment among older workers. As yet, the evidence base for informing actions is inadequate but points to complex scenarios where older workers may not necessarily fair well. Better understanding the determinants of their employment and of employer actions would help clarify the role of public policy. Also, understanding how other nations are responding is of strategic importance as this will directly influence the Australian labour market.