

Faculty of Life and Social Sciences

# Faculty Research Report

2006



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SWINBURNE UNIVERSITY  
OF TECHNOLOGY

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## Introduction from the Dean

It is with great pleasure that we present the Faculty of Life & Social Sciences Research Report for 2006. The Faculty again delivered an excellent research performance during the year, building on the substantial successes enjoyed in the previous few years. The research will help to inform our undergraduate teaching programs, and provide exceptional career opportunities for our graduates.

In 2006, the faculty researchers contributed to an increased number of postgraduate student completions, refereed publications and research income, and in particular were successful in obtaining an increased level of National Competitive Grant funding compared with the previous year. It is also pleasing to note that media interest in the research undertaken within the Faculty continued to be high, with our research projects attracting over half of the media interest for the Higher Education area at Swinburne, and nearly half of that for the University as a whole.

Research success comes about as a direct result of planning, hard work and effective research leadership, and the Faculty researchers are to be congratulated for their effort in these areas. I extend my thanks to Professor Michael Gilding (Deputy Dean – Research), the Centre Directors, the members of the Faculty Research Committee, and importantly the Faculty's researchers and students for their contributions during 2006. I would also like to acknowledge the highly valued support received from our industry partners and sponsors that have helped support our research endeavours.

Professor Russell Crawford  
Dean  
Faculty of Life & Social Sciences

## **Introduction from the Deputy Dean - Research**

The Faculty of Life and Social Sciences Research Report for 2006 shows strong improvement in all aspects of research performance. We had more postgraduate completions, more publications and more research income.

Specifically, in 2006 there were:

- 22 Postgraduate Completions: 13 PhDs, 8 Professional Doctorates and 1 Masters by Research (up from 16 completions in 2005)
- 28 book chapters, 99 journal articles and 27 refereed conference papers, amounting to 159 DEST points (an increase from 121 points in 2005)
- Research income of \$3,685,525, including 36 current National Competitive Grants (up from \$3,412,163 in 2005).

The Faculty continued to have a multiplicity of seminar programs – not least, DataBlitz, with its topical subjects and panel of speakers. DataBlitz again attracted strong audiences from across the University.

Faculty research also continued to attract strong media interest. In 2006 there were 1492 media items for the Faculty – 43% of the coverage for the University. This compares with 858 items in 2005, 31% of the University coverage.

Such stellar performances create a very high benchmark indeed. Thanks to the Dean, Professor Russell Crawford, the Faculty Executive Group and the Faculty Research Committee for steering our research efforts. Thanks to Aimii Treweek for her exemplary administration of the research effort. Congratulations to researchers across the Faculty for another year of research achievement!

Professor Michael Gilding  
Deputy Dean – Research  
Faculty of Life & Social Sciences

## LSS Profile at a Glance

**Total Number of Staff: 164**

**Total Students in Faculty: 3,002**

**Number of Research Students: 246**

### Major Discipline Areas

- Applied Statistics
- Biomedical
- Biochemistry
- Biotechnology
- Games and Interactivity
- Good Manufacturing Practices
- Housing
- Media and Communications
- Multimedia
- Philosophy
- Politics
- Psychology
- Psychophysiology
- Public and Environmental Health
- Radio
- Sociology
- Technical Communications

## Grants

### National Competitive Grants - Commonwealth

#### ARC Centre of Excellence

Thomas, J., Barr, T., MacKenzie, D. & Meredyth, D. (2005-2010) "ARC Centre of Excellence in Creative Industries and Innovation", ARC. Administering institution: Queensland University of Technology (Project 84014; 84015; 84016; 84017; and 84025)

#### ARC Discovery Grants

Arthurson, K. (2006) "Social mix and social exclusion", ARC Discovery Grant (DP0453004) (Project 34100)

Crewther, D. (2003-2006) "Phenotypic differences in behaviour, brain function and structure of genetically dissimilar forms of intellectual disability", ARC Discovery Grant (DP0345767) (Project 31313)

Croft, R. (2006) "Comparison of techniques for the removal of ocular artifact from the electroencephalogram: a validation study", ARC Discovery Grant (DP0559410) (Project 30466)

Gilding, M. & Turney, L. (2004-2006) "Genetic identity testing and the family: the articulation between biotechnology and family relationships, politics and public policy", ARC Discovery Grant (DP0450010) (Project 30405)

Hassan, R. (2006) "Speed, time and the political process in Australia", ARC Discovery Grant. (DP0664412) (Project 34013)

Hopkins, E. (2005-2007) "Community, identity and media use: understanding the Turkish community in Australia", ARC Discovery Grant (DP0556925) (Project 30463)

Ivanova, E., Nicolau, D. & Pham, D. (2004-2006) "Bacterial cell behaviour in micro/nano-confined environments", ARC Discovery Grant (DP0450012) (Project 34469)

Liley, D. (2005-2007) "Complexity in a Mesoscopic model of brain dynamics", ARC Discovery Grant (DP0559949) (Project 30469)

Neumann, K. (2006) "Australian public policy responses to refugees and asylum seekers: comparative and historical perspectives", ARC Discovery Grant (DP0663076) (Project 34014)

## ARC Linkage Grants

Burke, T. (2003-2006) "Political and social factors in the decline of mass transit: An investigation of failed policies to rebuild Melbourne's mass transit", ARC Linkage Grant (LP0347712) (Project 34318)

Burke, T. (2002-2006) "Public-private partnerships as solution to housing affordability", ARC Linkage Grant (LP0232196) (Project 34122)

Burke, T. (2003-2006) "Managing medium density development: a municipal case study", ARC Linkage Grant with City of Boroondara (LP02322001) (Project 34253)

Burke, T. & Moore, S. (2005-2007) "Out of the institution: an investigation of deinstitutionalisation, exploring the effectiveness of supported housing for people with psychiatric disabilities leaving care", ARC Linkage Grant (LP0562545) (Project 34599)

Clarke, C.R., Clarke, S.D., Crewther, D.P., Gordon, E. & Kohn, M. (2003-2006) "Evidence based evaluation of treatment in ADHD", ARC Linkage Grant (Flinders University) (LP0349079) (Project 31466)

Lewis, S. & Meredyth, D. (2005-2008) "Professional induction of male and female firefighters in a metropolitan station", ARC Linkage Grant APAI, MFESB (LP0562170) (Project 34596) Includes industry partner contribution.

Mares, P. (2005-2006) "Pacific labour and Australian horticulture", ARC Linkage Grant, Oxfam/Community Aid Abroad, Swan Hill Rural City Council and Sunraysia Mallee Economic Development Board. (LP0560944) (Project 34464)

McGlashan, S., Truss, R., Halley, P. & Lonergan, G. (2004-2006) "Tailored biodegradable polymers for injection moulding applications", ARC Linkage Grants with UQ & Plantic Technologies. (LP0348438) (Project 31302)

Meredyth, D. & Costar, B. (2004-2007) "Community consultation and the hard to reach: local government, social profiling and civic infrastructure", ARC Linkage Grant with industry partners: 8 local government authorities. (LP0455219) (Project 31324)

Moore, S. (2003-2006) "Resilience and vulnerability in children with seriously ill siblings", ARC Linkage Grant (APAI). (LP0347003) (Project 30290)

Thomas, J. (2003-2006) "Linkage building communities: Managing public assets to provide social value", ARC Linkage Grant (LP0347721) (Project 34317)

## ARC LIEF Grants

Thomas, J. (2006) "Australian Policy Online Development", ARC LIEF Grant (LE0668334) (Project 34012)

## AHURI Australian Housing and Urban Research Institute

Burke, T. (2005-2006) "Housing affordability for lower income Australians", Collaborative Research Venture (CRV 3), AHURI. (Project 34625)

Burke, T. (2005-2007) "Rental investor", AHURI. (Project 34532)

Hulse, K. (2005-2006) "Housing, assistance and social cohesion in Australia", AHURI. (Project 34542)

Hulse, K. (2005-2006) "Housing, assistance and economic participation: preferences and constraints", Collaborative Research Venture (CRV 1), AHURI. (Project 34556)

Hulse, K. & Burke, T. (2005-2006) "Improving access to social housing: common housing registers and other potential reforms", AHURI. (Project 34548)

Hulse, K. (2006) "Rethinking housing submarket", AHURI. (Project 34326)

Hulse, K. Postgraduate Scholarship: W. Stone (2004-2006). AHURI (Project 34503)

McNelis, S. & Hulse, K. (2006) "Older persons in public housing: the policy and management issues", AHURI. (Project 34560)

## Grains Research and Development Corporation

Bhave, M., Postgraduate Scholarships: P. Gollan (2005-2009), K. Smith (2005-2008). Grains Industry Research, GRDC. (Project 30619/30458)

Bhave, M., Honours Scholarship: D. Cockfield (2006). Grains Industry Research, GRDC. (Project 34018)

## Rural Industries Research Development Corporation

Bhave, M., Postgraduate Scholarship: H Wu (2005-2008). Rural Industries Research Development Corporation, RIRDC (Project 30504).

## NHMRC Grants

Croft, R. (2004-2008) "Australian Centre for Radio Frequency Bio-effects Research – Human Neurophysiology Programme", NHMRC. (Project 31485)

Gunn, J., Herrman, H., Hegarty, K., Blashki, G., Pond, D. & Kyrios, M. (2004-2006) "Diagnosis, management and outcomes of depression in primary care (DIAMOND) – a longitudinal study", NHMRC (Grant 299869)

Wang, Y. (2006) "The effect of lifestyle factors on knee cartilage volume". NHMRC Postgraduate research scholarship. (Project 30558)

Wood, A. (2004-2008) "Australian Centre for Radiofrequency Bio-effects Research – In-vitro Neurobiology", NHMRC. (Project 30298)

## Other

Hulse, K (2006) "Homeless citizen: Hamer lecture" (Project 30655)

MacKenzie, D. (2005-2007) "New models for family medication", Melbourne City Mission (Project 30628)

McKernan, H. (2005-2006) "More bytes: girls and IT/Multimedia", Australian School Innovation in Science, Technology and Mathematics (ASISTM), Commonwealth grant. (Project 30601)

## Public Sector Research

### Public Sector Research – Local Government

Burke, T. & McNelis, S. (2006) "MAV Housing Kit review", Municipal Association of Victoria. (Project 31559)

McNelis, S., Burke, T. & Neske, C. (2006) "City of Yarra Affordable Housing Discussion Paper", City of Yarra. (Project 30637)

### Public Sector Research – State Government

Costar, B. & Thomas, J. (2005-2008) "Chair in Victorian Parliamentary Democracy". Victorian Premiers Department and Swinburne University of Technology. (Project 84132)

Ewing, S. (2004-2006) "The effectiveness of mandatory comparison rates: information, capacity and choice". Consumer Credit Fund – Consumer Affairs Victoria. (Project 31515)

Lewis, S. (2005-2007) "MFESB stage II: Organisational changed/implementation framework", MFESB. (Project 80676)

MacKenzie, D. (2005-2007) "Youthworx 2: Reconnecting youth to education and the community", Office of Housing and Office for Youth, Department of Human Services. (Project 31432).

Moore, S., Kyrios, M., Hardie, E., Buzwell, S., Crafti, N. & Critchley, C. (2005-2007) "Evaluation of pre-diabetes intervention: Go for your life program", Victorian Department of Human Services. (Project 80711)

#### **Public Sector Research – Commonwealth Government**

Burke, T. (2004-2006) "Drug prevention on public housing estates", National Crime and Drug Research. (Project 30496)

Burke, T. (2005-2006) "Effective strategies for tackling drug and related problems on social housing estates", National Drug Law Enforcement Fund.

Deville, G. & Sweeper, S.M. (2005-2007) "Assisting children affected by parental separation, exposure to domestic violence and ongoing parental conflict", Telstra Community Development Grant Scheme. (Project 30483)

Deville, G. & James, S. (2005-2008) "The prevention of trauma reactions in police officers: decreasing reliance on drugs and alcohol", National Drug Law Enforcement Fund.

MacKenzie, D. (2005-2007) "Home advice programme evaluation", Family and Community Services (FACS) (Project 34549)

MacKenzie, D. (2006-2009) "Counting the homeless – census 2006", FACS (Project 34564)

Patterson, J., Schier, M., Owen, C. & Pallant, J. (2005-2006) "Road safety research grant programme", Australian Transport Safety Bureau Grant. (Project 30582)

#### **Industry, Community and Other Research Income**

##### **Industry and Other Research Income – Australian Contracts**

Croft, R. (2006) "Local SAR versus power density between 1 and 10 GHz", Mobile Manufacturing Pty Ltd.

Gunn, J., Griffiths, F., Pierce, D., Blashki, G., Hegarty, K., Pond, D., Dowrick, C., Kyrios, M., Gilchrist, G., Hurworth, R., Mihalopoulos, K. & Chondros, P. (2005-2007) "REORDER: Reorganising care for depression and related disorders in the Australian primary care setting", Australian Primary Health Care Research Institute.

Harding, I. (2005-2006) "Colloid analysis of formulations", Vital Health Sciences Pty Ltd. (Project 31097)

Jayasekara, R. (2006) "Evaluation of NovoSorb biodegradable polyurethanes: understanding degradation characteristics", PolyNovo Biomaterials Pty Ltd. (Project 30566)

Jayasekara, R. (2006) "Film testing according to the European Performance Standard EN13432", Biograde Pty Ltd. (Project 30617)

Jayasekara, R. (2006) "Research project on aerobic biodegradability assessment of near range of photo-sensitive polymers", Coles Myer Limited. (Project 30311)

Ivanova, E. (2006) "Influence of sediment resuspension on faecal bacteria in streams and implications for aquatic recreation", Melbourne Water. (Project 30651)

Kyrios, M., Bunker, S., Dunbar, J. & Reddy, P. (2004-2006) "Implementation trial for chronic heart disease, diabetes and depression in primary care", Beyond Blue Victorian Centre of Excellence in Depression and Related Disorders Grant.

Lewis, S. (2005-2006) "Small research projects", (Project 30605)

Lonergan, G. (2005-2006) "Global kitchen management (FZC) aerobin kitchen and mixed waste trials", Global Environment Management (FZC). (Project 30499)

Pipingas, A. (2006) "The prevention of cognitive decline, improving health in an ageing population and reducing age related diseases. Nutrient interventions to improve mood, stress and quality of life", SWISSE Vitamins Pty Ltd. (Project 30574)

Stough, C. & Papafotiou, K. (2004-2006) "Validation of saliva drug detection devices to test for methamphetamine and THC in humans", Vic Roads. (Project 30213)

Stough, C. (2004-2006) "Prevention of alcohol induced loss of cognitive function by Pycnogenol", Horphag Research Ltd, (Project 81009)

#### Industry and Other Research Income – Australian Grants

Ciorciari, J. & Gountas, J. (2006) "An investigation of the psychophysiological correlates of personality and relevance to designing marketing stratagems", La Trobe University. (Project 30029)

Kyrios, M. (2005-2006) "The integration of cognition behaviour therapy for Obsessive Compulsive Disorder into the primary care context: an evaluation of three models", Beyond Blue Grant (Project 31553)

Mares, P. (2006) "Pacific Islands migration study", World Bank. (Project 30636)

Murray, G. (2005-2006) "Automated longitudinal monitoring to predict and counter relapse in Bipolar disorder: A pilot investigation of effectiveness", Beyond Blue Foundation Grant (Project 31557)

Nathan, P. (2006) "Nicotinic neuroreceptor imaging with F-18 A85380 Positron Emission Topography (PET) in normal aging and Alzheimer's disease", Australian Rotary Health Research Fund Ian Scott Fellowship.

Patterson, J., Owen, C. & Crowley, B. (2006) "Science for rural communities", Ian Potter Foundation Grant.

Pipingas, A. & Vitetta, L. (2005-2006) "The Effect of micronutrient and herbal supplementation on cognition, mood, anxiety and stress in older adults at risk of cognitive decline", SWISSE Vitamins Pty Ltd (Project 30574)

Pipingas, A. & Silberstein, R.B. (2004-2006) "Investigation into the effects of dietary supplementation of an extract of Pinus Radiata Pine Bark (Enzogenol) on neurological cognitive function and cardiovascular disease risk factors amongst older at risk subjects", Enzo Bioactives Pty Ltd. (Project 31448)

Silberstein, R. (2006-2008) "The neural basis of creativity", Neuro-Insight Pty Ltd. (Project 30513)

#### **Industry and Other Research Income – Australian Donations, Bequests and Foundations**

Lonergan, G. (2004-2006) "A biodegradable lethal mosquito ovitrap for control of Dengue", Biotechnology Innovation Fund. (Project 31302)

#### **Industry and Other Research Income – International Funding**

MacKenzie, D. & Hayward, D. (2003-2006) "Virtual – LEWI", Hong Kong Baptist University. (Project 31197)

Mares, P. (2005-2006) "Canada's seasonal agriculture workers program and Australian horticulture", Canadian Studies Faculty Research Program. (Project 30464)

Neumann, K. (2005-2006) "Local policy responses to migrants, refugees and asylum seekers in a global context: an Australian case study", John D. and Catherine T. MacArthur Foundation Writing Grant.

#### **Cooperative Research Centre Funding**

##### **Cooperative Research Centre Funding - CRC for Smart Internet Technology**

Barr, T., Burns, A. & Sharp, D. (2005-2006) "Next generation internet users", Smart Internet Technology CRC. (Project 31411, 31474, 31255)

##### **Cooperative Research Centre Funding - Automotive Technology CRC**

Patterson, J., Schier, M. & Owen, C. (2005-2007) "HMI and Driver Distraction: Naturalistic Driving On-Road Test Vehicle". Automotive Technology CRC (Project C3-02)

Patterson, J. Postgraduate Scholarship: N. Michaels (2006-2009) Automotive Technology CRC (Project C3-02).

### Swinburne Research Grants

#### Swinburne University Research Development Grants

Barton, P. (2006) "Rejuvenation of primary cell lines for tissue engineering"

Bhave, M., Jayasekara, R. and Murphy, D. (2006) "Development of a biochemical barcode for salinity: a step towards meeting the environmental challenges for optimal land utilization and land recovery"

Gilding, M. (2006) "Stem cell research and public trust: the influence of social context in the early-stage commercialisation of controversial science"

Hulse, K. (2006) "Housing tertiary students"

Owen, C. (2006) "Psychophysiology of sensory perception: an investigation of the ability of questionnaire ratings to accurately reflect sensory responses"

Zwart, I. (2006) "Attitudes to water: assessing the views of CALD communities"

#### Swinburne Alumni and Development Grants

Palombo, E. (2006) "Propagating Australian medicinal plants for production as antibacterial products", Swinburne Alumni and Development and the Sunshine Foundation.

## Prizes and Awards

### **ISR Cities and Housing Team**

Carrick Institute Team Award for Outstanding Contribution to Student Learning

### **Dr Marylou Molphy**

Carrick Citation for Outstanding Contribution to Student Learning

### **Dr Denny Meyer**

Australian and New Zealand Academy of Management Conference Stream Award, in the stream of "Business Policy and Strategy"

### **Dr Christine Critchley, Dr Elizabeth Hardie and Ms Zoe Morris**

Best Paper

The Misumi Award for best paper 2006, presented for "Self-Coping Complexity: Role of self-construal in relational, individual and collective coping styles and health outcomes" which was published in the Asian Journal of Social Psychology

### **Prof Trevor Barr**

Charles Todd Medal for Communicator of the Year

### **Ms Julie Fricker**

Best Doctorate

"Predicting Infidelity: the role of attachment styles, love styles and the investment model"

Australian Psychological Society Counselling Psychology College national prize for best counselling psychology doctorate

### **Ms Dina Bowman**

The Australian Sociological Association Postgraduate Conference Scholarship

## Research Degree Students

### Professional Doctorate of Psychology (Clinical Psychology)

<b>Michele Bell</b>	The Process of attachment when an infant is born premature
<b>Emma Butler</b>	Mindfulness based stress reduction in primary school aged children
<b>Matthew Currie</b>	Aggression Replacement Training (ART): An evaluation study.
<b>Jane Dunkley</b>	Post-traumatic growth
<b>Deborah Eyles</b>	Depression in adolescents: the role and pathway of individual factors in the development of depression
<b>Jennifer Gosden</b>	Support measure used by IVF couples and how this affects their ability to cope with IVF
<b>Jennifer Lloyd</b>	Emotional intelligence development in children
<b>Marie Roberts</b>	Family functioning and mature-age mothering
<b>Alison Schafer</b>	Predictors of acculturation and adaptation of new Australians that promote psychological well-being
<b>Tania Slaviero</b>	Impact of meditation on children's health
<b>Marcus Squirrel</b>	Psychological assessment and treatment efficacy of chronic pain sufferers in group therapy
<b>Rebecca Wickham</b>	The role of neurological behavioural approach and inhibition pathways in the binge-purge cycle for eating disordered individuals
<b>Tamara Wolan</b>	The effect licit and illicit drugs have on affective processing and storage of trauma and non-trauma -related information
<b>Deborah Zaks</b>	Development, piloting and evaluation of a brief humour intervention designed to enhance the well-being of both clinical and non-clinical groups

### Professional Doctorate of Psychology (Counselling Psychology)

<b>Emma Aiken</b>	Interpersonal needs and values: authenticity, belonging, independence and narcissism
<b>Kathryn Anderson</b>	Subjective identity: processes and challenges, or, the path to being me
<b>Loretta Bell</b>	Autobiographical memory recall, self-concept and cognitive functioning in female with post-traumatic stress disorder
<b>Matthew Berry</b>	Investigating the role of motivation in maintaining changed drug-using behaviour
<b>Adele Carmady</b>	Factors that improve couple counselling
<b>Robert Cole</b>	Core beliefs and significant life events
<b>Louise Cooper</b>	Parkinson's disease, employment and quality of life
<b>Kenneth Greenwood</b>	Relative efficacy of self-help treatment for insomnia
<b>Miriam Grossbaum</b>	Negotiating life challenges: midlife perspectives
<b>Tanya Harkness</b>	Narrative themes in depression and vulnerability to depression
<b>Karen Johnson</b>	Attachment and conflict resolution styles as predictors of marital satisfaction for long-term couples with children

<b>Marian Kolta</b>	Malingering: Can it be detected?
<b>Monica Lederman</b>	Young adults' views of life
<b>Colleen Lovell</b>	Supervisee experiences of poor and harmful clinical supervision
<b>Wenda McPherson</b>	The Experience of families who have a member with a diagnosis of borderline personality disorder
<b>Lyndon Medina</b>	Children and adolescents who sexually abuse: Trauma, motivation and family environment
<b>Renee Miller</b>	The assessment of postnatal depression, anxiety and stress using a cognitive vulnerability-stress model: A role for perceived control and individual characteristics
<b>Filia Papadimitriou</b>	Evaluating counselling effectiveness: Comparison and evaluation of various models
<b>Ann Pensom</b>	Relationships in the workplace: The effects of attachment style, personality, family adjustment and emotional intelligence
<b>Maureen Pianta</b>	Spirituality as a psychological resource for coping in times of adversity
<b>Amanda Rethus</b>	Why senior women exit corporations mid-career
<b>Helene Richardson</b>	Emotional trauma and healing: Examining different counselling interventions
<b>Maribel Sanchez-Rockliffe</b>	Understanding the influence of migration on personal identity
<b>Cassandra Schwind</b>	Bad luck comes in three's: A narrative approach to the positive and negative impact of cumulative negative events
<b>Elizabeth Shelton</b>	Women's experience of embodiment in gestation and birth giving
<b>Vivien Silbert</b>	Conscious and unconscious transmission of trauma in 2nd and 3rd generation Holocaust survivors
<b>Jacqueline Tracey</b>	The experience of commissioning surrogate couples
<b>Vicki Trethowan</b>	Preparation of school counsellors for dealing with school crisis management in the 21st century
<b>Susan Wheeler</b>	Investigation of the desired attributes required by child protection workers
<b>Diana White</b>	The effects of personality, value system and authoritarianism on culpability judgments
<b>Hannah Woolhouse</b>	Mindfulness-based cognitive therapy (MBCT) for the prevention of relapse of depression
<b>Katie Wyman</b>	Counselling process and therapeutic change for clients attending a university psychology clinic

#### Professional Doctorate of Psychology (Health Psychology)

<b>Deirdre Gartland</b>	Using a new measure of resilience (Adolescent Resilience Questionnaire) to investigate the relationship between resilience and emotional well being among young people in general and young people living with a chronic illness
<b>Naomi Hackworth</b>	Developing and application of a methodology for the evaluation of a health complaints process

<b>Rosemary Higgins</b>	Factors related to spontaneous changes in fat intake and physical activity after coronary angioplasty
<b>Usha Mudaliar</b>	Impact of parental cardiac illness on adolescent children
<b>Grant O'Sullivan</b>	Body image and psychological disturbance in targeted 'At Risk' groups of men
<b>Sally Shaw</b>	Seeking support or staying silent: Predictors of behaviour following a diagnosis of multiple sclerosis

#### Master of Arts (by research)

<b>Vanessa Bilog</b>	The investigation of neuro-cognitive, mood and brain egg effects of Pine Needle extract, Ropren, on healthy elderly patients
<b>Samuel Duncan</b>	The role and impact of commercial media in the development and change in popular culture.(predominantly sport)
<b>Anastasio Garcia Rodrigue</b>	Supercomputing applications in pulsar timing
<b>Stephen Garvey</b>	The maintenance of cultural hegemony and its ramifications upon democracy
<b>Willie Kamara</b>	Charter of rights in the Australian states
<b>Gordon McCaskie</b>	Brian Boyd: a biography of a trade unionist
<b>Catherine McMahan</b>	The eye of the storm - the impact of covering disaster on journalists
<b>Alfandi Yahya</b>	An investigation of game-based learning to assist student understanding of user experience design

#### Master of Applied Science (by research)

<b>My Linh Ly</b>	Coatings from recycled PET for paper and cardboard
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#### Master of Science (by research)

<b>Robert Bell</b>	"Pitch"- The percussion instruments' timbral classification hierarchy
<b>Robert Chapman</b>	Oculomotor characteristics of horizontal and vertical saccades during visual search
<b>Lana McLean</b>	An evidence-based evaluation of Emotional Intelligence intervention therapy in the context of intimate relationships
<b>Nicholas Romeo</b>	An evaluation of quality, accuracy & implications of type III & IV portable polysomnography versus gold standard
<b>Geek Ching Tan</b>	Cloning and expression of the Capsid gene of human Calicivirus

## Doctor of Philosophy

<b>Yulia Alekseeva</b>	Actin related proteins in marine Proteobacteria
<b>Laith Al-Mashat</b>	Developing a new technique for a magnet-friendly eye tracker system
<b>Thomas Alves</b>	Managing medium density housing development: A municipal case study
<b>Robyn Ambler</b>	Re-connecting, re-establishing, reviewing relationships and the process of recovery: The lives of women and their children after leaving situations of domestic abuse
<b>Dianne Anderson</b>	Functional neuroimaging of development of memory in children
<b>George Aranda</b>	Functional brain electrical activity imaging during affective facial processing in people with Schizophrenia
<b>Andrew Armstrong</b>	Why EI Matters: The effects of emotional intelligence on psychological resilience, communication and adjustment in romantic relationships, and workplace functioning
<b>Adeel Arshad</b>	Epidemiology of human Rotavirus causing disease in children
<b>Ronald Aspin</b>	Public-private partnerships as a solution to housing affordability problems: a case study of inner urban development
<b>Christopher Baker</b>	Intergenerational transfer of wealth in Australia in the first half of the twenty-first century
<b>Cali Bartholomeusz</b>	The effects of estrogen treatment on neurocognition in healthy women and women with schizophrenia
<b>Julie Barton</b>	The neural substrates of false memory
<b>Katrina Bello</b>	Assessment and treatment software for developmental disabilities based on neuroscientific theories of information processing
<b>Jacqueline Bermingham</b>	Immunological responses to Rotavirus nonstructural protein, NSP4
<b>Gordon Bewsell</b>	Colloidal characterisation of biologically derived substrates
<b>Gareth Boardman</b>	An information theory interpretation of relativistic phenomena
<b>Dina Bowman</b>	Desperately seeking success: The family life of entrepreneurs
<b>Nicola Brackertz</b>	Managing for service outcomes: an investigation of management changes in Victorian local government authorities due to the implementation of a strategic facilities management
<b>Gordana Bruce</b>	Living with heart disease: The needs of cardiac patients and their partners and the effect of heart disease on the couples' relationship
<b>Clare-Louise Brumley</b>	The health status of endurance athletes
<b>Benjamin Bullock</b>	Mood disorders and circadian rhythms
<b>David Camfield</b>	The biological basis of personality: The relationship between personality traits and electrophysiology
<b>Lai Cheng Chan</b>	Narratives of clients' traumatic experiences: The impact on relationships and self-esteem
<b>Sheau Tsuey Chong</b>	After school activities: To promote positive youth development through community programme
<b>Allison Clarke</b>	The impact of Epilepsy on the psychological functioning of young people
<b>Mathilde Clements</b>	Emotional Intelligence (EI) in sport, with emphasis on the role EI plays in prediction of performance-level in athletes

<b>Fallon Cook</b>	The search for a neural basis of “recovered” memories of childhood abuse
<b>David Cooper</b> <b>Vanessa Cropley</b>	Biological and chemical investigation of traditional medicinal plants Dopamine receptors and prefrontal function: molecular and electrophysical imaging in patients with schizophrenia and healthy controls
<b>Lyndel Cuesta</b>	Differentiating the entrepreneurial life story: Investigating narrative identity in relation to business failure
<b>Frank Danieli</b>	The measurement of distributed processing in the neocortex via EEG
<b>Mark Di Marco</b>	Grief and bereavement in people with an intellectual disability and complex communication needs
<b>Rocco Di Vincenzo</b>	Nutritional influences of the development and progression of non insulin dependent diabetics mellitus (NIDDM) in lean adult Vietnamese respondents
<b>Luke Downey</b> <b>Martin Dubaj</b>	The psychological determinants of sporting performance An objective investigation of neural electrical activity evoked by taste stimuli in humans
<b>Jacques Duff</b>	Investigation of the effectiveness of neurotherapy in the treatment of ADHD using SSPT
<b>Peter Eide</b>	Psychological, neuropsychological and electrophysiological correlates of mild depression
<b>Sarath Ekanayake</b>	Characteristics of particles contributing to turbidity in portable water distribution networks
<b>Gina Ekermans</b>	Exploring the emotional intelligence construct: A cross-cultural investigation
<b>Daniel Eldridge</b>	The characterisation and adsorption properties of the three crystal structures of titanium dioxide
<b>Kane Elfman</b> <b>Peter (Scott) Ewing</b> <b>George Favas</b>	Episodic memory Wired high rise: A case study in new forms of governance Lignite drying technologies for power generation: physicochemical properties and combustion reactivity of dried lignite products
<b>Irina Filonenko</b>	Parents and children's communication patterns in interpersonal conflicts
<b>Kerrie Forrest</b>	Investigation of the gene family encoding aquaporins, the protein channels regulating water movement, in wheat
<b>Brett Foster</b> <b>John Fowler</b> <b>Carly Gamble</b>	Mechanisms of anesthetics at molecular and cellular level The impact of public policy on the pharmaceutical industry Transient telomerase gene delivery to rejuvenate Myofibroblasts for tissue engineering
<b>Andrea Garing</b>	Charlatanism: The real impostors of the business and academic world
<b>Nahal Goharpey</b>	Repetitive behaviour in Autism as a symptom of executive dysfunction
<b>Peter Gollan</b>	Investigations of wheat genes encoding immunophilins involved in regulation of storage protein folding, chloroplast function and plant development

<b>Aaron Gosling</b>	Use of biological entities (enzymes and/or microbes) to catalyse a desired chemical transformation
<b>Marcus Gray</b>	Models of Human Anxiety: An investigation into the psychophysiological, neuropharmacological and behavioural facets of anxious experience
<b>Valerie Guille</b>	Event related potential (ERP) markers of serotonergic and dopaminergic function
<b>Barry Hancock</b>	An inquiry into the politics of rural water allocation in Victoria
<b>Kristi Hanson</b>	The production, extraction and characterisation of <i>Agaricus bisporus</i> Laccase from spent mushroom substrate
<b>Teresa Harding</b>	Predicting optimal emulsifier systems using interfacial tension
<b>Elizabeth Harris</b>	Nutritional interventions in cognitive decline
<b>Philip Harris</b>	Cortical activity associated with rhythmic grouping of pitch sequences
<b>Elaine Hartley</b>	The fractal self: from indeterminacy to participatory constructions of meaning
<b>Samantha Henderson</b>	Friendster: A case study in the merging of online and offline friendship networks
<b>Kathryn I'Anson</b>	OCD in context: Issues of self and identity and implications for treatment
<b>Hamish Innes-Brown</b>	The cognitive neuroscience of cross modal attention: An exploration
<b>Barbara Ives</b>	Inner urban public housing redevelopment - A case study of the high rise estate at Kensington, Melbourne
<b>Melinda Jackson</b>	The effects of sleep deprivation and dexamphetamine on neuropsychology function and driving performance in professional drivers
<b>Glenn Jessop</b>	Disability and wired communities
<b>Gregory Jordan</b>	The structure-activity relationship of active ingredients in essential oils
<b>Ivanka Juric</b>	Cortical function in post-traumatic stress disorder (PTSD): Steady state probe topography (SSPT) study of working memory
<b>Helen Kalaboukas</b>	Suicidal ideation and behaviours across cultures in Australian tertiary institutions
<b>Fiona Kelly</b>	Microorganism-particle association in water supply systems
<b>Sugandh Kesharwani</b>	Purification of (FiFo) ATP synthase from <i>sulfitobacter</i> and <i>marinobacter</i> sp. and its biochemical and functional characterization
<b>Teddy Kurniawan</b>	Computation of induced internal electromagnetic fields within human body due to external radio-frequency exposure
<b>Antony Lamb</b>	Idealism, Cooperation or Opportunism? - a study of the relationships between Australia's first minority Country Party government and the majority parties. Labor and Conservatives through a biography of Lt. Hamilton Lamb MLA, only sitting MP to die for Australia during World War 2
<b>Julia Lamborn</b>	Landfill decomposition behaviour
<b>Margaret Learmonth</b>	The 1989 pilots' dispute: The accord, the mates and the renegade union

<b>Shuk Man Sumie Leung</b>	Determining the pharmacology of mismatch negativity: An electrophysiological investigation in healthy subjects
<b>Hongwei Li</b>	Aging related changes in sustain attention: A functional brain electrical activity study
<b>Sally Li</b>	Application of structural and functional neuroimaging methods in the investigation of early Alzheimer's disease (AD)
<b>Karin Lindgaard</b>	Philosophical approaches to emotion and illness
<b>Barbara Livett</b>	Brain electrical activity during the processing of native and later learned languages
<b>Claude Lobo</b>	Development of biodegradable scaffolds for tissue engineering applications
<b>Sarah Loughran</b>	The effects of electromagnetic fields emitted by mobile phones on human sleep and melatonin production
<b>Diane Mainwaring</b>	Problem solving in the mathematically gifted: A neurophysical approach
<b>Susan Malta</b>	Social connectedness, health and ageing
<b>Mathew Marques</b>	Perceptions of intellectuals: Attitude and personality explanations
<b>Craig (Peter) McIntosh</b>	Crisis management: The rise of neo-Liberalism in regional governments in Australia and Canada
<b>Sarah McLean</b>	Investigation of culturally-diverse ready to eat foods
<b>Jacqui McRae</b>	The extraction and analysis of pharmaceutical compounds from plants
<b>Ian McShane</b>	Building communities: managing public assets to provide social value
<b>Glen Menezes</b>	Ethical issues for psychological practice in a large organisation
<b>Mona Merhej</b>	An investigation of humanitarian aid workers' areas of growth and trauma
<b>Natalie Michael</b>	Assessing countermeasures to drowsiness and their effectiveness during the night.
<b>Peter Milne</b>	Brief Shining Moments - Gough Whitlam's Career as Allegory
<b>Zissis (Jack) Minas</b>	The effects of Diabetes Mellitus on cardiovascular disease of Athero sclerosis
<b>Natasa Mitik Dineva</b>	Bacterial cell behaviour in micro/nano confined environment
<b>Radu Mocanasu</b>	Bioactive and biomimetic surfaces
<b>Elizabeth Nelson</b>	Investigating the relationship between salivary and faecal cortisol activity on the bacterial flora activity: a possible mechanism underlying gastrointestinal well-being
<b>Shee Ping Ng</b>	Genetic systems encoding heavy metal resistance and/or transport in bacteria and their applications in environmental biotechnology
<b>Arletta Nikitiuk</b>	Nutritional intervention for women at risk for development of cervical dysplasia
<b>Gabriel Notarianni</b>	Personality factors of depressed patients in the primary care sector: predictors of adherence to treatment, severity treatment responsiveness and clinical outcomes
<b>Barry O'Neill</b>	Pharmacology of loudness dependence of auditory evoked potentials

<b>Miroslav Orel</b>	Culture as a process: Towards the establishment of discipline of Culturology in Australia
<b>Rosemary Panelli</b>	Psychosocial outcomes of interventions relating to individuals with epilepsy
<b>Sharnel Perera</b>	Emotional processing and the effects of TMS
<b>Robbie Peters</b>	Lower class urban culture and space in Suralaya, Indonesia
<b>Svetla Petkova</b>	Investigations of portal vein blood flow in cirrhotic portal hypertension using computer-based and physical modelling methods
<b>Trieu Pham</b>	EOG correction of ocular artifact in EEG
<b>Paul Pickering</b>	Identification and evaluation of genetic factors determining grain texture in important Australian wheat varieties
<b>Catherine Pocknee</b>	Achieving strategic education change: The university experience
<b>David Prater</b>	Self-publishing in the field of Australian literature
<b>Georgia Prattis</b>	Professional induction of female and male firefighters in a metropolitan station
<b>Chieh Ren Quek</b>	Analysis of the physiochemical and genetic characteristics of epitopes of rotavirus NSP2 non-structural proteins
<b>Claire Rafferty</b>	Modernity and aesthetics: the philosophy of art after Kant
<b>Martin Ramsay</b>	The fiction of Banana Yoshimoto and its place in contemporary Japanese society
<b>Jennifer Rankin</b>	Cultural sustainability: investigating complexity, process, and the thermodynamics of civilization
<b>Maren Rawlings</b>	Use of humour in the workplace and its effect on well-being and job satisfaction
<b>Meredith Rayner</b>	Resilience And vulnerability in siblings of children with chronic illness or disability
<b>Joseph Sampson</b>	Moving boundary solutions of the shallow water wave equations
<b>Shaun Seixas</b>	Spatial coordinate systems within the posterior parietal cortex: The interaction between extracted cell types and various modified and unmodified polymer scaffolds
<b>Kiran Shah</b>	Molecular epidemiology of Rotaviruses isolated from hospitalised children in Melbourne, Australia
<b>Andrew Smairl</b>	Investigations of the micellar electrokinetic chromatographic separations of complex mixtures of antibiotic drugs
<b>Wendy Stone</b>	Down shifting and housing: How changing consumption patterns relate to housing in contemporary Australia
<b>John Stone</b>	Political and social factors in the decline of mass transit: an investigation of failed policies to rebuild Melbourne's mass transit
<b>David Stuart</b>	The nation, consumption and globalisation: The case of Thailand
<b>Lisa Tatai</b>	Evaluation of NovoSorb biodegradable polyurethanes: Understanding degradation characteristics
<b>Danielle Tilmanis</b>	Examination of the growth and therapeutic properties of Agaricus blazei
<b>Effi Tomaras</b>	Childhood and children's participation rights under international law: Deconstructing cultural relativism and re-constructing the political?
<b>Steven Tomlinson</b>	Risk assessment of pathogens in drinking water

<b>Philip Tu</b>	Catalytic conversion of mixed plastics waste into useful chemicals
<b>Anthony Turton</b>	The effects of serotonergic and noradrenergic systems and emotional processing: A functional imaging investigation using steady state probe topography (SSPT) and functional magnetic resonance imaging (fMRI)
<b>Raffaele Uglietta</b>	Molecular basis for actions of health-promoting components in functional foods
<b>Cindy Van Rooy</b>	Individual differences in working memory
<b>Tracey Varker</b>	The prevention of trauma reactions in at-risk groups
<b>Oliver Vasilevski</b>	Mechanisms for inhibition of cardiac arrhythmogenesis
<b>Robert Walsh</b>	A new technique for pain control, depression & stress reduction - Afterimage visual perception thought stopping
<b>Jarrold Walshe</b>	An investigation into the role of cognitive and non-cognitive factors in the prediction of susceptibility to media based persuasion attempts
<b>Kelly Walton</b>	Genetic engineering of the major envelope glycoprotein of baculovirus
<b>Cameron Way</b>	Development of fundamental understanding for biocomposites and bionanocomposites
<b>David White</b>	The application of neurofeedback in depression
<b>James Williams</b>	Social anxiety, emotional expression and personality
<b>Christopher Wilson</b>	Creative participation: young people, informal education and media production
<b>Huimei Wu</b>	Characterisation of genes determining grain quality in wheat
<b>Tiam Fung Yap</b>	Evoked potentials in cognitive decline
<b>Angela Ziebell</b>	Lignin as a renewable source of monomers (and other live stock chemicals)
<b>Mark Ziemann</b>	The characterisation of genes in the glutaredoxin family (GRX) in Arabidopsis thaliana and their effect on plant development
<b>Katerina Zrajevsky</b>	The epidemiology of endometriosis - Sociodemographical and nutritional factors

## Research Degree Completions

### Professional Doctorate of Psychology (Counselling Psychology)

**Julie Fricker** *Predicting Infidelity: The Role of Attachment Styles, Lovestyles and the Investment Model.*

Coordinating Supervisor: Professor Susan Moore

Associate Supervisor: Dr Bruce Findlay

Julie's study was to clarify the concept of infidelity among a large sample of Australians aged between 18 and 60 years. She examined beliefs and behaviours associated with unfaithfulness and investigated the association between infidelity and several individual, relationship, and environmental variables. Results confirmed the prevalence of infidelity, with reports of the behaviour ranging from 20% in current relationships to 42% in previous relationships. The study also emphasised the multifaceted nature of motivations towards infidelity. Findings are intended to inform therapeutic practice in the hope that a greater understanding of the factors associated with infidelity may assist individuals and couples to take the course that best suits their psychological wellbeing.

**Kaileen Pearson** *Healthy and Harmful Adolescent Attachment, Conflict, and Anger*

Coordinating Supervisor: Dr Roslyn Galligan

Associate Supervisor: Associate Professor Glen Bates

This study investigated adolescent attachment styles, parent-adolescent conflict-anger patterns and adolescent depression. Adolescents with secure attachment styles reported healthy conflict and anger; they experience negative emotions, but they have good emotional regulation and expect conflict to be resolved well for everyone. One harmful conflict-anger pattern, associated with preoccupied and fearful attachment styles included, higher levels of family conflict involving poor conflict endings and even low levels of violence. The other harmful conflict-anger pattern was associated with a dismissive attachment style and involved conflict with coolness and alienation in the family, as well as lower levels of reported problem solving strategies and good conflict endings.

**Monica Thielking** *An investigation of attitudes towards the practice of school-based psychological services.*

Coordinating Supervisor: Professor Susan Moore

Monica provided a much needed Australian contribution to the research pertaining to school psychology. Victorian School psychologists, principals and teachers were surveyed and the results highlighted the complex nature of school psychologists' roles and a number of issues that are in need of improvement, particularly the unsatisfactory physical resources allocated to some school psychologists and the reported lack of understanding amongst some teachers and principals of the ethical responsibilities of school psychologists. Monica has published a number of manuscripts both nationally and internationally and is now working for the Australian Psychological Society in a role dedicated to implementing some of the recommendations of her thesis, as well as supporting School psychologists nationally.

**Suzanne Warner** *Holiday and School Term Sleep Patterns of Australian Adolescents*

Coordinating Supervisor: Dr Greg Murray

Associate Supervisor: Professor Susan Moore

Suzanne's study examined the differences between holiday and school term sleep patterns in adolescents, as well as investigating the complex interrelationships between sleep patterns, sleep quality, circadian preference, substance use, mood, daytime functioning, and grades in a longitudinal study. Three hundred and ten senior secondary school students, aged between 16 – 18 years of age, completed both holiday and school time self-report surveys.

Consistent with trends reported in other countries, the study found that students adopted a later sleep/wake phase over the holidays, with the majority reporting that they obtained adequate sleep. During school term however, the majority of students were dissatisfied with the amount of sleep they were able to obtain due to the imposition of the school schedule, accumulating considerable sleep debts over the week. Lower sleep times and poorer quality of sleep were associated with decrements in mood and daytime functioning. Evening typed students who had a circadian preference for the later timing of daily activities and later sleep/wake cycles were the most vulnerable to sleep debt, lower mood, and poorer functioning throughout the day, as well as reporting higher use of substances such as caffeine, nicotine and alcohol. They also tended to report lower academic achievement. Suzanne's study demonstrated that sleep patterns and circadian preference significantly affected the day to day functioning and well-being of adolescents, and the findings have implications for school/life balance in the teenage years.

**Professional Doctorate of Psychology (Health Psychology)**

**Jo-Anne Abbott** *The Influence of the Quality of Childhood Sports Participation Experiences on Adult Motivation to be Physically Active*

Coordinating Supervisor: Dr Elfriede Ihlen

Associate Supervisor: Dr Judith Charlton

Jo-Anne Abbott's doctoral thesis comprised two questionnaire studies to examine whether adult motivation to be physically active, is influenced by the quality of childhood and adolescent sports participation experiences. Jo found that adolescent sports experiences indirectly influenced adult level of activity through influencing adult perceptions of competence and control over physical activity behaviour, the tendency to set activity goals and the intrinsic enjoyment of activity. Jo also found that adolescent sports experiences influenced the type of physical activity engaged in during adulthood, with more negative memories of sports participation being associated with currently taking part in non-sport related activities.

**Kellie Karantzas** *An investigation of obesity and binge eating behaviour in preadolescent Australian school children*

Coordinating Supervisor: Dr Naomi Crafti

Associate Supervisor: Professor Susan Moore

Kellie investigated associations between childhood obesity, social messages, depression, and eating behaviours. Twenty-five percent of over 500 children aged between nine and thirteen years old were

overweight and six percent were binge eating which involved overeating with little control. Children were more likely to be depressed and to binge eat if they were teased or were influenced by media messages about ideal male and female bodies. Depression and eating behaviour were more influenced by teasing for boys but by media messages for girls. Programs need to help children handle negative social messages and their psychological responses as part of reducing childhood obesity.

**Andrew Sinclair** *The Primary Health Care Experiences of Gay Men in Australia*

Coordinating Supervisor: Dr Simone Buzwell

Associate Supervisor: Professor Susan Moore

The present research was designed to examine the primary health care experiences of gay men in Australia and assess doctors' attitudes and training with regard to gay men and their health care. Almost 200 gay men and 25 GPs took part. The most important health concerns of gay men were stress and depression followed by HIV/AIDS, body image disorder and other sexually transmissible infections. Including those participants who were unsure, approximately one-half reported experiencing homophobia and almost one-quarter reported experiencing discrimination in the provision of health care. Of the doctors involved, non-gay specialist GPs were less comfortable treating gay men and reported poorer communication than their gay specialist counterparts. Further, doctors perceived their medical education regarding gay men's health has been inadequate. Together, the results suggest that disclosure of sexuality is an important issue for both gay men and doctors, and has the potential to impact on the quality of health care that gay men receive. In order to improve the level of disclosure, the pervasiveness of homophobia and discrimination in primary health care must be reduced. Failure to address these issues will condemn gay men to continued health inequality.

**Sandra Walker** *Prostate Cancer Support Groups: An Evaluation*

Coordinating Supervisor: Dr Elizabeth Hardie

Associate Supervisor: Associate Professor Ann Knowles

This thesis explored the attitudes and perceptions of 188 men with prostate cancer, some 107 of whom had joined support groups and 81 who had not. Support group members reported high levels of satisfaction with their groups. They also reported greater knowledge about the disease, but more physical and emotional symptoms, when compared with non-members. The most frequently reported benefits of group membership were gaining information, sharing experiences and assisting other men with prostate cancer. Half of the men who were not members of prostate cancer support groups said they were unaware that such groups were available to them. This finding supported the views of group members who noted that greater medical and government recognition of prostate cancer support groups was needed.

## Master of Applied Science

**Michael Thomsen** *Immunomodulatory Effects of Traditional Chinese Herbal Formulation. Ginseng and Dang Gui Ten Combination (PS10)*

Coordinating Supervisor: Professor Avni Sali

Associate Supervisor: Dr Luis Vitetta

## Doctor of Philosophy

**Paul Allsopp** *Measuring team performance and modelling home advantage in cricket*

Coordinating Supervisor: Professor Stephen Clarke

Associate Supervisor: Dr Basil Mark De Silva

Using statistical modelling techniques the thesis quantifies the extent to which team quality effects and a range of associated factors such as home advantage, batting order and winning the toss have shaped team performance in cricket. The thesis proposes a method to produce consistent margins of victory in One-day International cricket by projecting the score for the team batting second, and computes team ratings and home advantages in all forms of cricket. It was determined that the team ratings provide a robust measure of team quality which is not sensitive to the extraneous effects that may disproportionately affect team performance.

**Julie Angerosa** *The Role of Adsorption in the Adsorbing Colloid Flotation of Anions*

Coordinating Supervisor: Associate Professor Ian Harding

Associate Supervisor: Professor David Mainwaring

Flotation is one of Australia's most important technologies, resulting in our ability to separate high value minerals from low grade ore. It can also be used as a contaminant remediation technology to purify water. Mercury, sulphate, phosphate and nitrate are four aqueous contaminants which Julie has specialised in, and she has performed a fundamental analysis of the adsorption of these waste products onto colloidal material. She has then shown that this is the first, and most important step, in water treatment using flotation. Optimising this first step has enabled her to undertake practical, cost effective and efficient removal of contaminants using adsorbing colloid flotation.

**Donna Athan** *Topographic Distribution of Human Brain Activity Associated with Cognitive Processing in Anxiety Disorders*

Coordinating Supervisor: Professor Richard Silberstein

Associate Supervisor: Professor Graham Burrows

Anxiety disorders are the most frequently diagnosed psychiatric condition affecting some 29% of the population. Donna used brain imaging to investigate brain electrical activity in normal women and women diagnosed with Panic Disorder. Donna showed for the first time, that viewing anxiety-provoking words activated a region in the right posterior part of the brain while viewing neutral words had no such effect in normal women. In panic patients, both anxiety-provoking and neutral words powerfully activated this brain region, suggesting that patients processed all words as if they were

anxiety-provoking. Donna's work not only contributes to our understanding of this disorder but also to better diagnosis and treatment.

**Tristan Barnett** *Mathematical Modelling in Hierarchical Games with Specific Reference to Tennis*

Coordinating Supervisor: Professor Stephen Clarke

Associate Supervisor: Professor Alan Brown

This thesis investigates problems in hierarchical games such as tennis. A Markov chain model is used to estimate the probabilities of players winning and the expected remaining length of a match in progress, based on their playing statistics. The process can be implemented in real-time with the predictions providing commentators and spectators with an objective view on the likely match outcome. The models are also used to determine when players should alter their effort to optimize their available energy resources. By representing warfare as a hierarchical scoring system, the results obtained in tennis are used to solve defence strategy problems.

**Bradley Carter** *The Prediction of Both Short and Long Term Outcomes Following Severe Brain Injury using Somatosensory Evoked Potentials*

Coordinating Supervisor: Professor Dale Murphy

Associate Supervisor: Dr Warwick Butt

Somatosensory Evoked Potentials (known as SEPs), measure the response of the brain to certain stimuli. Bradley's thesis examines the relative ability of SEPs to predict outcome in patients who have suffered a severe brain injury. The predictive value of SEPs was examined directly and in comparison to alternative tests using both patient data and literature reviews. The outcome was also assessed at different times after injury using both functional and quality of life measures. SEPs were found to be outperformed by some standard clinical tests in specific areas, but were superior overall.

**Mathew Dafilis** *Computational Investigations of a Model of Neocortical Electrorhythmogenesis*

Coordinating Supervisor: Dr David Liley

Associate Supervisor: Dr Peter Cadusch

The work of Mathew Dafilis is in the area of neuroscience known as brain dynamics. Mathew investigated a mathematical model of brain electrical activity developed by David Liley and found that the model supported a special type of behaviour known as chaotic dynamics. This finding of chaos in a model of brain electrical activity was a first for scientists in this field. Mathew also investigated the dynamics of the model when the model's parameters were varied, and found that the mathematical model supported many different types of dynamics found in experiments. This work will have a lasting impact on brain dynamics.

**Kathryn Ellis** *The dopaminergic system and human spatial working memory: A behavioural, electrophysiological and cerebral blood flow investigation*

Coordinating Supervisor: Associate Professor Pradeep Nathan

Associate Supervisor: Professor Paul Grasby

Working memory is essential for many everyday tasks such as reading and decision-making. Deficits in working memory are observed in psychiatric disorders such as schizophrenia and Parkinson's disease, and are linked to dysregulation in a chemical system called the dopaminergic system. However the role of dopamine in working memory and its effects on associated brain circuits are poorly understood. This thesis used a number of brain imaging techniques to examine the brain circuits associated with working memory and how these are influenced by changes in dopamine, by using a pharmacological technique to temporarily deplete brain dopamine levels. The main findings indicate that a number of brain areas such as the frontal and parietal cortices are critical for various stages of working memory function, and that these brain circuits can be influenced by changes in dopamine neurotransmission. Findings also suggest that the brain can partly compensate for changes in dopamine levels, and that the degree dopamine depletion must be high to impair working memory function. The findings from this research have resulted in a number of key papers in international peer-reviewed journals.

**Donald Forbes** *Dynamic Prediction of Australian Rules Football using Real Time Performance Statistics*

Coordinating Supervisor: Professor Stephen Clarke

Associate Supervisor: Dr Denny Meyer

Using data from 1295 AFL matches as collected by the official information providers to the AFL, detailed analysis was performed in an attempt to develop a dynamic prediction model. Preliminary findings indicated that a Markov process would suit and two models were subsequently derived. The first model, consisting of 8 states, pays no regard to location on the ground, whilst the second model consisting of 16 states, is dependent on ball location. Output from the models was used this year by several AFL clubs in a weekly report format and commercialization of the process in the off-season will see it used by clubs 'in-game' next season.

**Lisa Gardner** *Emotional Intelligence and Occupational Stress*

Coordinating Supervisor: Professor Con Stough

Associate Supervisor: Professor Grant Devilly

Recent research has focused on the role of emotions in the workplace. This movement has largely been attributed to research around the construct of Emotional Intelligence (EI). This thesis examined the relationship between EI and the occupational stress process. The first study of this thesis involved the administration of a questionnaire. The results indicated that employees who reported using EI were less likely to report feelings of stress, ill-health and lowered satisfaction and commitment. The results of Study 1 provided a rationale for the development of an EI training program. Study 2 involved the development and implementation of an EI training program. The findings of Study 2 demonstrated the effectiveness of the training program in terms of improving EI, decreasing stress and strain and improving the outcomes of stress. This thesis provides support for the theory that EI can be learned and developed.

**Denise Hamblin** *The Effect of Mobile Phone Emitted Electromagnetic Fields on Human Brain Activity and Performance*

Coordinating Supervisor: Associate Professor Rodney Croft

Associate Supervisor: Associate Professor Andrew Wood

Denise's aim was to determine whether mobile phone exposure affects human brain activity, performance and behaviour. Results of the study indicated that 30 minutes of exposure to a mobile phone can alter brain activity and performance in various forms, for various sub-groups of the population and in a matter of minutes. Specifically, active exposure led to a reduction in psychological activation and increased alpha power, possibly representing a temporary change in integrative brain function. This study involved 120 human volunteers as part of the main experiment, and it provided the strongest demonstration of mobile phone-related effects on human brain activity and performance to date.

**Benjamin Harrison** *Functional Imaging Studies of Executive-Attention in Humans: Comparing Healthy Subjects & Patients with Neuropsychiatric Disorder*

Coordinating Supervisor: Associate Professor Pradeep Nathan

Associate Supervisor: Associate Professor Christos Pantelis

One of the major goals of cognitive neuroscience is to better understand the neural bases of human executive, or 'higher-order', attentional processes. Functional neuroimaging has become a gold standard for pursuing such work *in vivo*. The focus of this thesis concerns a novel application of the classic Stroop paradigm and a functional imaging methodology to examine executive-attention performance in healthy subjects and patients with schizophrenia and obsessive-compulsive disorder. These studies address current ideas on the nature of executive-control mechanisms and how they may be compromised in these two common psychiatric disorders. This work also examines important conceptual and interpretive issues associated with functional imaging approaches to the study of higher-cognition and cognitive psychopathology in humans.

**Pajaree Rajatanavin** *Solid-Stabilised Foams Produced Using a Mixed Surfactant System*

Coordinating Supervisor: Associate Professor Ian Harding

Associate Supervisor: Dr Ian Bowater

Foams are well known in a number of areas such as mineral flotation, fire-fighting, materials manufacture and cleaning products. It is less well known that foams can be used to treat industrial waste and remediate environmental pollution. Such foams are often stabilised by micro and nano sized particles composed of solid hydrous metal oxides. Ms Rajatanavin has shown that very stable foams can be formed using a specific mixture of surfactants and hydrous metal oxides, but only if the chemistry of the oxides is properly controlled. The foams can then be used to trap and remove problematic contaminants in water.

**Andrea Sharam** *Market Segmentation and Domestic Electricity Supply in Victoria*

Coordinating Supervisor: Professor David Hayward

Associate Supervisor: Dr Peter Love

**Andrew Tucker** *Visual Spatial Attention in Three-Dimensional Space*

Coordinating Supervisor: Associate Professor John Patterson

Associate Supervisor: Dr Geoffrey Stuart

Visual spatial attention is the ability to *select* a part of a visual scene and concentrate on it. While everyday life requires many shifts of attention within and between depths, current understanding of how spatial attention works is based on 2-dimensional space only. Therefore, the aim of this thesis was to determine if near-far information is as important in attracting attention as left-right information. The findings suggested that while attentional selection can be directed to locations in 3-dimensional space given the correct conditions, time and importance can determine when our brain selects the visual content.

**Bachelor of Arts (Honours) in Psychology**

**Self-perceptions as a vulnerability to obsessive-compulsive disorder: Investigation into self-ambivalence and a self-worth contingent upon high moral standards**

Claire Ahern

**Core components of perfectionism: High personal standards, self-evaluative concerns, and self-worth contingent upon success**

M Andreetta

**The relationship between burnout and emotional intelligence in Australian surgeons and surgical trainees**

Sara Benson

**The interaction between proximal and distal factors in the prediction of cigarette smoking behaviour**

Elizabeth Brown

**An empirical investigation of mood regulation: Description, structure and mood correlates.**

Sarah Buckingham

**The hoarding symptoms of obsessive compulsive disorder: influences on the development and maintenance of hoarding behaviour**

Judy Buitenhuis

**Impulsivity, reward sensitivity and motivations to use Ecstasy: An integrative study**

Sarah Egan

**The construct validity of the Mayer-Salovey-Caruso emotional intelligence test (MSCEIT) in an Australian sample**

Fiona Erskine-Fowler

**Motivation to smoke: the role of personality, smoking outcome expectancies and nicotine dependence.**

Ashleigh Fleming

**Narratives of living with Hepatitis C: Diagnosis, impact and adjustment**

Margaret Fry

**Public reactions and perceptions associated with three neuro-degenerative diseases: Parkinson's, Alzheimer's and Multiple Sclerosis**

Angela Grouios

**Parents' meta-emotion philosophy, emotional intelligence and relationship to adolescent emotional intelligence**

Christiane Kehoe

**Trauma response, worldview and resilience after media exposure to traumatic world events**

Timothy Lambert

**The role of self-objectification, gender role orientation, perfectionism, and reasons for exercise in male body dissatisfaction**

Serafino Mancuso

**Does emotional intelligence mediate the relationship between conflict and relationship satisfaction in romantic relationships?**

Breeanna McCarthy

**Classification of the autogenous-reactive model of obsessions: A multidimensional measurement approach**

Claire McCarthy

**Compartmentalization and vulnerability to Bipolar Disorder**

Eamonn McCarthy

**Impulsivity, reward sensitivity and eating patterns among nonclinical women**

Cindy Melksham

**Sensitivity to reward and rash impulsiveness predicting alcohol use: The mediating effect of drinking motives**

Susanna Mullner

**Surfing your way through exam stress: Internet use and its relationship to exam preparation**

Hailey Platt

**Cognitive determinants of testicular self-examination behaviour in a young Australian sample**

Sujatta Rajendran

**Vulnerability to Bipolar Disorder and the sleep-wake cycle**

Sarah Sherwell

**Giving wisdom back to the people: Laypeople and their laywisdom**

Matthew Taylor

**Body Image and weight concerns from childhood to motherhood: A qualitative study**  
Deborah Wilson

**Using the Theory of Planned Behaviour to explore individual intentions and behaviours towards posthumous organ donation**  
Sally-Anne Woodhouse

**Bachelor of Arts (Honours) in Social Science**

**An Evaluation of Transitional TAFE Courses for Young People with Disabilities in Victoria**  
Sarah Biggs

**Is the Trauma in the Listing? Experiences of Stress and Trauma in Domestic Violence Work**  
Janene Evans

**The Social Embeddedness and Collective Action of Yarraville Village Traders: A Small Business Case Study**  
Lee Glezos

**Class, Crime and Capital: an Investigation into the Causes of Property Crime in Australia**  
Alexander Heathcote

**Retirement Villages: an Exploration of Identity for Ageing Australians Living in an Age Homogenous Environment**  
Maureen Hindle

**The Social Experience of Panic Disorder**  
Roslyn Le

**Representations of DNA Paternity Testing in Australian Newspapers: Three Case Studies**  
Paula-Lea Wood

**Bachelor of Science (Honours) Biochemistry/Chemistry**

**The antibacterial activity of traditional medicinal plants**  
*David Cooper*

**Particle association effect on hydrochlorous acid inactivation of bacteria using Propidium Iodide**  
*Nazile Kazemi*

**Development of biodegradable polyurethanes for dermal applications: the effect of Phosphocholine on mechanical properties, degradation and cell compatibility**  
*Donna Menzies*

**Bachelor of Science (Honours) in Chemistry**

**Antibacterial activity and chemical composition of *Taxus baccata***

*Jie Zhang*

**Investigating antibacterial activity and active compounds in medicinal plants**

*Tiekun Liu*

**Bachelor of Science (Honours) in Biotechnology/Biochemistry**

**The toxic effects of Rotavirus non-structural Protein 4 (NSP4) expression on *Escherichia coli* host cells**

*Abdi Hamid Moalin*

**Isolation and characterization of plasma membrane intrinsic proteins in wheat**

*Damian Cockfield*

**Bachelor of Science (Honours) Psychophysiology**

**Dissociation and handedness: a trans-cranial magnetic stimulation approach**

*Joel Ashworth*

**Exploring the relationship between eye movement desensitization and reprocessing (EMDR) and the creation of false memories**

*Lauren Brown*

**Treatment outcomes for juvenile sex offenders: a review of the literature**

*Chantelle Crossland*

**Age associated changes in working and episodic memory: a review of the electrophysiological evidence**

*Helen MacPherson*

**The changing face of dyslexia: towards a multidimensional explanation of reading disability**

*Isobel McKinnon*

**Acknowledging obstructive sleep apnoea in post-traumatic stress disorder**

*Jennifer Moral*

**The cognitive changes associated with normal aging and mild cognitive impairment**

*Rebecca Neate*

**The relationship between emotional intelligence and social anxiety disorder: a review**

*Karen Nolidin*

**The role of hyperpathia in the diagnosis of central neuropathic pain following stroke**

*Emma Pitts*

**Hypnosis: dissociation or focused attention? A review of evidence**

*Kate Stone*

**Confounds in clinical depth of anesthesia monitoring with co-administration of nitrous oxide**

*Jeggan Tiego*

**On confirmation bias and the need for future neurophysiological research**

*Tom Zurek*

## Media Coverage

### Media coverage for the Faculty of Life and Social Sciences in 2006

The following report is an analysis of the Faculty of Life and Social Sciences (LSS) media performance in 2006. The data is gained from press and broadcast clippings reports sent on a daily and weekly basis by Media Monitors. Please note that while every effort is made to collect details of media coverage, there will be some media mentions that are missed and a few that could be wrongly attributed.

### Overall coverage

In 2006 there were 1492 media items for LSS. All items were considered positive apart from 3 that were considered neutral.

### LSS total coverage – 1461 media items

- 1489 media items were positive
- 0 media items were negative
- 3 media item was neutral

Swinburne received a total of 3494 media items for 2006, with LSS making up 43% of this total coverage.

### LSS media coverage by month

As expected, media coverage dips in the summer semester break. The peaks during the year depend on research stories that are distributed.

<b>January</b>	68 items	<b>July</b>	303 items
<b>February</b>	47 items	<b>August</b>	147 items
<b>March</b>	130 items	<b>September</b>	57 items
<b>April</b>	242 items	<b>October</b>	116 items
<b>May</b>	220 items	<b>November</b>	104 items
<b>June</b>	191 items	<b>December</b>	46 items

### Breakdown of publication type

	Media Items	Percentage
Suburban print	193 items	13%
Metro print	246 items	16%
Radio	742 items	50%
Regional	85 items	6%
TV	15 items	1%
Specialist	56 items	4%
International	44 items	3%
News websites	111 items	7%

### LSS coverage compared to other faculties and schools

LSS received a total of 1492 media items in 2006 making up 43% of the total coverage.

### Faculty/School source of coverage

<b>Faculty</b>	<b>2006 Media Items</b>	<b>Percentage of Total Coverage</b>
Business and Enterprise	366 items	10%
Engineering and Industrial Science	94 items	3%
Information and Communication Technologies	148 items	4%
Life and Social Sciences	1492 items	43%
Design	152 items	4%
Lilydale	113 items	3%
NICA	337 items	9%
<b>School</b>	<b>2006 Media Items</b>	<b>Percentage of Total Coverage</b>
Arts, Hospitality and Sciences	134 items	4%
Business and eCommerce	33 items	1%
Engineering	27 items	1%
Social Sciences	25 items	1%
Not attributed to a School or Faculty	573 items	17%

### Main themes of the coverage

Research findings and experts commentating in their fields comprises the bulk of coverage for LSS.

<b>Media Items</b>	<b>Percentages</b>
Alumni	6%
Course	5%
Event	9%
Expert comment	19%
Research	31%
Staff	5%
Student	10%
Incidental mention	3%
Swinburne General/Other	12%

## Faculty Symposia/Seminars

### DataBlitz

#### 31 March **Sleep**

Ben Bullock (Psychology), 'Circadian Rhythms and Sleep in the Vulnerability to Bipolar Disorder'

Mark Schier (BioMedicine), 'Sleep Technologies'

Greg Murray (Psychology), "'Early to bed, early to rise": Psychological correlates of the Protestant work ethic'

Phillip Swan (BSI), 'Sleep and Accidents'

#### 28 April **Democracy**

Brian Costar (ISR), 'The Right to Vote in Australia'

Christine Critchley (Psychology), 'Commercialisation of stem cell research and public trust'

Paul Healy (Philosophy), 'Revitalizing Democracy'

David Mackenzie (ISR), 'Democracy, social exclusion and homelessness'

#### 26 May **Water**

Barry Hancock (Politics), 'An inquiry into the politics of rural water allocation in Victoria'

Ian Harding (Biotechnology), 'Grey water, drinking water and particles'

Fiona Lynch (EBC), 'Microbial safety in Melbourne's drinking water'

Ivan Zwart (ISR), 'Community attitudes to water'

#### 30 June **Alternative Energies**

Julian Donlen (National Centre for Sustainability), 'The sustainable energy challenge'

Francois Malherbe (EBC), 'The Reality of Alternative Energies'

Julia Lamborn (FEIS), 'Landfill Gas: Energy from waste'

Elena Ivanova (EBC), 'Bacterial production of ATP'

#### 28 July **Addiction**

Matthew Berry (Psychology), 'Carrots and Sticks'

Naomi Crafti (Psychology), 'Eating Mindfully'

Rodney Croft (BSI), 'Neural function and recreational drug use'

Ed Ogden (BSI), 'Public Drunkenness - who gets arrested and why?'

#### 25 August **Knowledge Transfer**

Alex Burns (CRC for Smart Internet), 'Domain Anthropology and Software Development Teams'

Dennis Foley (FBE), 'Indigenous epistemology, the original and the best'

Adam Krezel (FEIS), 'Constructing Knowledge'

Julian Thomas (ISR), 'Universities, IP and the RQF'

**29 September The Internet**

Scott Ewing (ISR), 'World Internet Project'  
Lisa Gye (Media), 'Vernacular photography and digital archiving'  
Helen McKernan (ISR), 'More Bytes'  
Trevor Barr (CRC for Smart Internet), 'Smart Internet 2010 Report'

**27 October Sex**

Simone Buzwell (Psychology), 'Love on-line: Are Australians using the internet to find "the one"?'  
Deb Dempsey (Sociology), 'Reflections on sex, stigma and the constraints of the commercial research environment'  
Julie Fricker (Psychology), 'Infidelity'  
Susan Moore (Psychology), 'Sex Education Controversies'

**24 November Youth**

Roslyn Galligan (Psychology), 'Patterns of adolescent distress: gender, SES, family and self'  
Paula Geldens (Sociology), '"It's not polluted": Unpacking the importance of place for young people'  
Glenn Jessop (ISR), 'Applying the brakes: Public policy responses to mobile phone use in cars'  
Denise Meredyth (ISR), 'Youthworx: community radio and at-risk youth'

**Sociology Seminar Series**

- 12 May Meg Carter** "Stories from the home front"
- 9 June Dr Lyn Turney** "Inside 'paternity fraud'"
- 14 July Dina Bowman** "Doing business and doing family"
- 11 August Dr Deb Dempsey** "Lesbian mothers and the significance of biological relationships"
- 8 September Dr Paula Geldens** "Youth and Identity"
- 13 October Sue Malta** "What implications do 'Aging in Place' policies have for social connectedness amongst older adults?"
- 10 November Robyn Ambler** "The effects of domestic violence on adjustment to adolescence"

## Institute of Social Research Seminar Series

- 10 March**      **Dr Kath Hulse** "Understanding work disincentives: neoliberal ideology or good public policy?"
- 7 April**        **Glenn Jessop** "Mobile phone use while driving: a social policy analysis"
- 2 June**         **Dr Robert Hassan** "Speed, time and the political process in Australia"
- 9 June**         **Dr Glenn Nicholls** "A hundred years of deportation from Australia"
- 23 June**        **Dr Klaus Neumann** "Public memory and reconciliation in perpetrator societies"
- 11 August**     **Ian McShane** "Aqua Profonda: Culture and the regeneration of community facilities"
- 1 September**   **Prof Trevor Barr** "Broadband policy for Australia: Looking elsewhere"
- 8 September**   **Dr Ellie Rennie** "Inside the house of SYN: Youth radio and the creative industries"
- 13 October**    **Dr Ivan Zwart** "Deliberative democracy and community storm water management"
- 10 November**   **Prof Brian Costar** "Political money and the corruption of Australian democracy"
- 17 November**   **Wendy Stone** "Housing and downshifting: how Australian families keep a roof overhead"
- 8 December**    **Prof Julian Thomas** "The history of the remote control"

## Complex Processes Research Group

- 1 March**        **A/Prof Arran Gare** "Process Philosophy, ecological economics and human ecology"
- 15 March**      **Jocelyn Dunphy-Blomfield** "Growth or development"
- 29 March**      **Jenny Rankin** "Reframing the environmental debate"
- 19 April**       **Alan Roberts** "Issues in environmental medicine"
- 26 April**       **Emma Aitken** "Models for ecological medicine"

- 10 May**            **Stephen Garvey** “Global water supplies”
- 24 May**            **Glenn McLaren** “Dynamic Stability”
- 7 June**             **Frank Burden** “Natural Capital”
- 2 August**          **A/Prof Arran Gare** “Complexity theory and ‘collapse’ “
- 16 August**        **Alan Roberts** “Jarad Diamond’s collapse”
- 30 August**        **Stephen Garvey** “Sustainability of global Capitalism”
- 13 September**   **Mathew Sharp** “An Hegelian perspective on collapse”
- 11 October**      **Steve Mackey** “The failure of Islamic civilisation and its lessons”
- 25 October**      **Jenny Rankin** “Diamond versus Tainter on collapse”
- 8 November**     **Glenn McLaren** “Australia in 2050”

**The Environment and Biotechnology Centre Seminar Series**

**Natasha Mitik-Dineva** “Bacterial biofilm formation in confined environments”

**Peter Gollan** "Investigation into wheat genes encoding FKBP's involved in starch biosynthesis regulation and plant development"

**Huimei Wu** “Characterisation of genes determining grain quality in cereals”

**Lisa Tatai** “In-vitro degradation of NovoSorb polyurethanes”

**Human Biotechnology and Public Trust Symposium – 23 and 24 November 2006**  
**Taking Stock in 2006: Trends, Perceptions and Regulation**

Papers were presented by key representatives from industry, academia and government agencies, providing a multi-sector and multidisciplinary overview of the human biotechnology industry in Australia, from a national perspective and within the global context. Papers ranged across industry overviews and analysis, social research data analysis, law reform, bioethics and government policy and regulation.

Sessions were run under the following headings:

- Commercialisation
- Public Perception and Public Trust
- Consuming Biotechnology
- Human Genetic Databanks
- Stem Cells
- Public Policy

Keynote Speakers

Two keynote addresses were presented. The first was titled “Value Drivers in Australian Biotech: A Reality Check”. The paper was presented by Robert Moses, Chairman of the Board of numerous biotechnology companies in Australia including: Antisense Therapeutics Ltd., TGR Biosciences Ltd., Sylvan Scientific Ltd. And previously Meditech Research Ltd., Amrad Corporation Ltd., and The Australian Stem Cell Centre Ltd.

The second keynote address, titled “The Role of the Human Genetics Advisory Committee (HGAC)” was presented by Professor Ron Trent. Professor Trent is the Chairman of the NHMRC Human Genetics Advisory Committee; Professor of Molecular Genetics (U Syd); Director of the Department of Molecular and Clinical Genetics at the Royal Prince Albert Hospital in Sydney and Executive Director of SUPAMAC – the University’s high throughput DNA analysis service. Member of the Board of Directors of the Garvan Institute of Medical Research (1998-2009); as well as Chairman of the NHMRC’s Gene and related Therapy Research Advisory Panel (1994-2006). Foundation Chief Examiner in Genetics for the Royal College of Pathologists of Australasia (1996-2002).

## Publications

### Book Chapters

**Alves, T.**, 2006, 'Designing a built environment for people to live in: implications of the "new design nexus"', *The New Design Nexus: ICT, changing demographics and sustainability*, eds. L. Anderson & S. Jackson, lab.3000, Melbourne, VIC, Australia, pp.77-95.

**Barnet, B. A.**, 2006, 'Do technical artefacts evolve?', *Technicity*, eds. A. Bradley & L. Armand, Litteraria Pragensia, Prague, Czech Republic, pp.167-199.

**Barr, T. F.**, 2006, 'Telecommunications', *The Media and Communications in Australia*, eds. S. Cunningham & G. Turner, Allen & Unwin, Sydney, NSW, Australia, pp.113-132.

**Bhave, M.** & \*Johnson, J., 2006, 'The foldase enzymes, PDI and cyclophilins: roles in storage protein folding/deposition and wheat grain quality', *Biotechnology for Food, Agriculture and Environment*, eds. D. Thangadurai, W. Tang & A. Bennett, Regency Publications, New Delhi, India, pp.29-53.

**Ciorciari, J.**, 2006, 'Biological basis of emotional intelligence', *Emotional Intelligence International Symposium 2005*, eds. C. Stough, D. Saklofske & K. Hansen, Tertiary Press, Melbourne, VIC, Australia, pp.15-28.

**Costar, B.**, 2006, 'Albert Dunstan: the jumping jack premier', *The Victorian Premiers 1856-2006*, eds. P. Strangio & B. Costar, Federation Press, Sydney, NSW, Australia, pp.215-226.

**Costar, B.**, 2006, 'John Allan: the first agrarian', *The Victorian Premiers 1856-2006*, eds. P. Strangio & B. Costar, Federation Press, Sydney, NSW, Australia, pp.188-196.

**Costar, B.**, 2006, 'John McDonald: a remorseful premier', *The Victorian Premiers 1856-2006*, eds. P. Strangio & B. Costar, Federation Press, Sydney, NSW, Australia, pp.242-249.

**Costar, B.**, 2006, 'The electoral system', *Government, Politics, Power and Policy in Australia*, eds. A. Parkin, J. Summers & D. Woodward, Pearson Education Australia, Sydney, NSW, Australia, pp.187-205.

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Strangio, P. A. & **Costar, B.**, 2006, 'Introduction: premiers and politics, 1856-2006', *The Victorian Premiers 1856-2006*, eds. P. Strangio & B. Costar, Federation Press, Sydney, NSW, Australia, pp.1-11.

**Findlay, B. M.**, 2006, 'Emotional intelligence and psychological wellbeing', *Emotional Intelligence International Symposium 2005*, eds. C. Stough, D. Saklofske & K. Hansen, Tertiary Press, Melbourne, VIC, Australia, pp.217-224.

**Finn, M. J.**, 2006, 'Political interface: the banning of GTA3 in Australia', *The Meaning and Culture of Grand Theft Auto: Critical Essays*, eds. N. Garrelts, McFarland and Company, Inc, Jefferson, NC, USA, pp.35-48.

**Gilding, M. D.**, 2006, 'Class and elite analysis', *Government, Politics, Power and Policy in Australia*, eds. A. Parkin, J. Summers & D. Woodward, Pearson Education Australia, Sydney, NSW, Australia, pp.380-400.

**Hansen, K. L.**, 2006, 'Emotional intelligence and clinical depression', *Emotional Intelligence International Symposium 2005*, eds. C. Stough, D. Saklofske & K. Hansen, Tertiary Press, Melbourne, VIC, Australia, pp.225-236.

\*Wright, J. P., Pham, D. K. & ~Ivanova, E., 2006, 'Cell surface ultrastructure of marine bacteria', *Nanoscale Structure and Properties of Microbial Cell Surfaces*, eds. E. Ivanova, Nova Science Publishers, New York, NY, USA, pp.241-255.

Pham, D. K., \*Chan, C. K. & Ivanova, E., 2006, 'Impact of polymeric surfaces on oligonucleotides immobilisation for lab-on-a-chip applications', *Trends in DNA Research*, eds. C. Woods, Nova Science Publishers, New York, NY, USA, pp.145-163.

\*Ellem, B., Kimber, J. & \*Shields, J., 2006, 'The far west', *People & Politics in Regional New South Wales, Vol 2 - the 1950s to 2006*, eds. J. Hagan, Federation Press, Sydney, NSW, Australia, pp.282-316.

**Love, P. J.**, 2006, 'Elmslie, Prendergast and Hogan: Labouring against the tide', *The Victorian Premiers 1856-2006*, eds. P. Strangio & B. Costar, Federation Press, Sydney, NSW, Australia, pp.171-187.

**MacLellan, N., & Mares, P. W.**, 2006, 'Labour mobility in the pacific: creating seasonal work programs in Australia', *Globalisation and Governance in the Pacific Islands*, eds. S. Firth, Australian National University, Canberra, ACT, Australia, pp.137-171.

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**McRae, J.**, \*Yang, Q., ~Crawford, R. J. & ~Palombo, E. A., 2006, 'Traditional knowledge and indigenous uses: ethnobotanical leads to drug discovery', *Recent Progress in Medicinal Plants*, eds. J. Govil, V. Singh & C. Arunachalam, Stadium Press, Houston, Texas, USA, pp.199-220.

**McShane, I.**, 2006, 'Melbourne museum', *South Pacific Museums: Experiments in Culture*, eds. C. Healy & A. Witcomb, Monash University Press, Melbourne, VIC, Australia, pp.1-4.

**Milne, E.**, 2006, 'The affective and aesthetic relations of epistolary presence', *Avant-Post*, eds. L. Armand, Litteraria Pragensia, Prague, Czech Republic, pp.160-177.

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**Palombo, E. A.**, 2006, 'Traditional plants and herbal remedies used in the treatment of diarrheal disease: mode of action, quality, efficacy, and safety considerations', *Modern Phytomedicine: Turning Medicinal Plants into Drugs*, eds. I. Ahmad, F. Aqil & M. Owais, Wiley - V C H Verlag GmbH, Weinheim, Germany, pp.247-269.

**Rowley, K. J.**, 2006, 'Second life, second death: the Khmer Rouge after 1978', *Genocide in Cambodia and Rwanda: New Perspectives*, eds. S.E. Cook, Transaction Publishers, New Brunswick, NJ, USA, pp.201-225.

**Silberstein, R. B.**, 2006, 'Dynamic sculpting of brain functional connectivity and mental rotation aptitude', *Event-Related Dynamics of Brain Oscillations*, eds. C. Neuper & W. Klimesch, Elsevier, Amsterdam, The Netherlands, pp.63-78.

**Stough, C. K.**, 2006, 'Emotional intelligence, scholastic achievement and class room disturbances', *Emotional Intelligence International Symposium 2005*, eds. C. Stough, D. Sakolske & K. Hansen, Tertiary Press, Melbourne, VIC, Australia, pp.197-213.

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Hughes, C. A. & **Costar, B.**, 2006, *Limiting Democracy: The Erosion of Electoral Rights in Australia*, University of New South Wales Press, Sydney, NSW, Australia.

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**Barnett, T. J., Brown, A. & Clarke, S. R.**, 2006, 'Developing a model that reflects outcomes of tennis matches', *Proceedings of the Eighth Australasian Conference on Mathematics and Computers in Sport*, Eighth Australasian Conference on Mathematics and Computers in Sport, Coolangatta, QLD, Australia, 3-5 July 2006, Australian and NZ Industrial and Applied Mathematics, pp.178-188.

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