

# Postgraduate Research Activity

---

# 2002



UNIVERSITY  
OF TASMANIA

# Contents

<b>Key</b>	4
<b>Arts</b>	
Art (Hobart)	6
Asian Languages and Studies	7
Conservatorium of Music	8
English, Journalism and European Languages	9
Government	10
History and Classics	11
Philosophy	12
Sociology and Social Work	13
Visual and Performing Arts	14
<b>Commerce</b>	
Economics	16
Information Systems	17
Management	19
<b>Education</b>	
Education	21
Centre for Research and Learning in Regional Australia	22
<b>Health Science</b>	
Human Life Sciences	24
Medicine	
Anatomy and Physiology	25
Biochemistry	27
Medicine (Discipline)	29
Pathology	30
Psychiatry	32
Surgery	33
Menzies Centre	34
Pharmacy	35
<b>Science, Engineering and Technology</b>	
Agricultural Science	37
Centre for Food Safety and Quality	41
Tasmanian Institute of Agricultural Research	42
Architecture	43
Central Science Laboratory	44
Chemistry	45

Computing	47
Cooperative Research Centre – Antarctic and Southern Ocean Environment	48
Cooperative Research Centre – Sustainable Production Forestry	49
Earth Sciences	50
Centre for Ore Deposit Research – Australian Research Council	
Special Research Centre	51
Engineering	52
Geography and Environmental Studies	54
Mathematics and Physics	
IASOS	56
Mathematics	58
Physics	59
Plant Science	60
Psychology	61
Tasmanian Aquaculture and Fisheries Institute	
Aquaculture	63
Fish Health Unit	66
Marine Research Laboratory	67
Zoology	69

<b>Research Output 2002</b>	<b>73</b>
-----------------------------	-----------

# Key

The items of research output listed in this Report have been classified in standard categories by each organisational unit, in response to the increasing interest in bibliometric analysis across the Australian university system. The classification of each item is indicated by a code from the table below, which is given in square brackets following the item description.

## A. JOURNAL ARTICLE

- A1. Refereed article in a scholarly journal
- A2. Non refereed article in an scholarly journal
- A3. Non refereed article in a professional journal
- A4. Letter or note
- A5. Other refereed contribution to a scholarly journal
- A6. Edited journal

## B. BOOK

- B1. Authored - research
- B2. Authored - other
- B3. Edited
- B4. Revision, new edition
- C. CHAPTER IN BOOK
- C1. Chapter in a B1 Book
- C2. Chapter in a B2 Book
- C3. Chapter in a B4 Book

## D. REVIEW

- D1. A substantial review of an entire field of study
- D2. A review of several works
- D3. A review of a single work
- D4. Any other published review

## E. WORKING MODEL/TECHNICAL DRAWING

- E1. Working Model
- E2. Technical Drawing

## F. CONFERENCE PUBLICATION

- F1. Full written paper - refereed
- F2. Full written paper - non refereed
- F3. Extract of paper
- F4. Edited volume of conference proceedings
- F5. Invitation to chair major international conference
- F6. Invitation to chair major national conference

## G. DESIGNS

- G1. Refereed Designs
- G2. Other Designs

## H. COMPUTER SOFTWARE

- H1. VAX/VMS
- H2. Workstation; Sun, Silicon Graphics, IBM, DEC

- H3. Personal computer; IBM or compatible
- H4. Personal computer; Macintosh
- H5. Other

## I. CONTRACT REPORT AND CONSULTANT'S REPORT

- I1. Contract Report
- I2. Consultants Report

## J. PATENT

- J1. Patent
- J2. Application for Patent

## K. MAJOR CREATIVE WORK

- K1. Published Work
- K2. Recorded Work
- K3. Exhibitions

## L. OTHER CREATIVE WORK

- L1. Minor Written or Recorded Work
- L2. Catalogue
- L3. Representation of Original Art
- L4. Acquisition

## M. THESES ACCEPTED FOR HIGHER DEGREE

- M1. Masters Degree by research
- M2. Masters Degree by courseware
- M3. Doctor of Philosophy
- M4. Higher Doctorate
- M5. Professional Doctorate

## N. ENTRY

In a dictionary, encyclopaedia, or the like.

## O. OTHER PUBLIC OUTPUT

- O1. Newspaper article
- O2. Magazine article
- O3. Media interview
- O4. Internal newsletter
- O5. Report of restricted access
- O6. Awards and other recognition of the quality of research output.

# **Postgraduate Research Activity**

---

# 2002

## **Arts**

# Art (Hobart)

## Conference Publication

**Ozolins, BT**, 'Are You Thinking What I am Thinking', *The Fourth International CAiiA-STAR Research Conference*, Perth, 48 (2002) [F4]

## Other Creative Work

**O'Keefe, K**, *Play*, Plimsoll Gallery, Hobart, 24 (2002) [L2]

**Swann, HB**, *The Shape of Air*, Plimsoll gallery, Hobart, 24 (2002) [L2]

**Booth, BM**, *Clearing*, CAST, Hobart, 3 (2002) [L3]

**Brinckman, TA**, *Clearing*, CAST, Hobart, 3 (2002) [L3]

**Hawley, D**, *Pattern as Subject*, CAST, Hobart, 5 (2002) [L3]

**Hawley, D**, *Plumage*, Latrobe Street Gallery, Melbourne, 13 (2002) [L3]

## Thesis Accepted for Higher Degree

**Andrews, Lynne**, 'The Imaging of Antarctica: Artistic visions in the Antarctic and sub-Antarctic since the eighteenth century' (2002) [M1]

**Haddon, N**, 'More Minimal Conditions for Painting' (2002) [M1]

**Harris, CR**, 'Multifunctional Furniture' (2002) [M1]

**Johnson, KL**, 'Enchanted World: A Visual Investigation into the Space of Seduction' (2002) [M1]

**Langridge, CF**, 'Opening up the world of things with sculpture' (2002) [M1]

**Robinson, Duncan**, 'Physicality of the Analogue' (2002) [M1]

**Keating, MJ**, 'The Space of the Screen and Contemporary Ambivalence: an innovative analysis of contemporary pictorial construction' (2002) [M3]

**Lunn, KLC**, 'Multiculturalism and Identity' (2002) [M3]

**Petterd, R**, 'Liquid sensations: evoking sensory experiences with interactive video installation art' (2002) [M3]

# Asian Languages and Studies

## **Thesis Accepted for Higher Degree**

**Guo, J**, 'The Features and Significance of Jingju (Peking Opera) Plays 1790-1911' (2002) [M3]

**Scott, JM**, 'Liminality in the late twentieth century: Furui Yoshikichi on physical and mental illness, death, social ostracism and workplace and ageing stress' (2002) [M3]

# Conservatorium of Music

## **Thesis Accepted for Higher Degree**

**Phillips, ML**, 'An Assessment of the  
Contribution to Australian String Pedagogy  
and Performance of Jan Sedivka' (2002) [M3]

# English, Journalism and European Languages

## **Thesis Accepted for Higher Degree**

**Buckland, C**, 'Bright Shoots of Everlastingness:  
Children's Fiction as Secular Scripture' (2002)  
[M3]

# Government

## **Journal Article**

**Shelley, R**, 'The Politics of Human Rights in Southeast Asia', *Australian Journal of Political Science*, 37 (3) 581-582 (2002) [A4]

**Shelley, R**, 'What if China Doesn't Democratize? The Implications for War and Peace', *The China Journal*, 47 (January) 147-149 (2002) [A4]

## **Conference Publication**

**Zwart, IC**, 'From Government to Governance: Citizen Participation in Local Government', *Proceedings of 'The Cutting Edge of Change' Local Government Conference*, University of New England, Armidale, NSW, EJ (2002) [F2]

# History and Classics

## Journal Article

**Cavell, E**, 'Henry VII, the North of England, and the First Provincial Progress of 1486', *Northern History*, **39** (2) 188-207 (2002) [A1]

**Grimmer, MR**, 'Britons and Saxons in Pre-Viking Wessex: Reflections on the Law Code of King Ine', *Parergon*, **19** (1) 1-17 (2002) [A1]

## Thesis Accepted for Higher Degree

**Mickleborough, LC**, 'Colonel William Sorell, Lieutenant-governor of Van Diemen's Land 1817-1824: An examination of his convict system and establishment of free settlement' (2002) [M1]

**Brennan, S**, 'Island women: An oral history' (2002) [M3]

**Connor, MC**, 'The politics of grievance: society and political controversies in New South Wales 1819-1827' (2002) [M3]

**Johnson, LD**, 'An analysis of the penal experiences and social outcomes of Salford Hundred convicts transported from Britain to Van Diemen's Land between 1828 and 1837' (2002) [M3]

# Philosophy

## **Thesis Accepted for Higher Degree**

**Enright, PM**, 'Complex Persons: A Holistic Solution to Personal Identity' (2002) [M3]

**Nettlefold, G**, 'What Mother Knows' (2002) [M3]

**Phillips, JA**, 'Heidegger's People from the State to Poetry' (2002) [M3]

**Rosier, AL**, 'Causal Endurantism - A New Account of Identity Through Time' (2002) [M3]

# Sociology and Social Work

## Journal Article

**Gabriel, MB**, 'Australia's regional youth exodus', *Journal of Rural Studies*, **18** (1) 209-212 (2002) [A1]

**MacKenzie, M**, 'Nurturing Citizens: Secure Attachment and Democratic Citizenship', *Australian and New Zealand Journal of Family Therapy*, **23** (1) 1-8 (2002) [A1]

## Conference Publication

**Donoghue, J**, Tranter, BK, White, RD, 'Australian dreams: Home ownership, share ownership and Coalition policy', *APSA 50*, Canberra, ACT, EJ (2002) [F1]

White, RD, **Donoghue, J**, 'Marshall, Mannheim and modern citizenship', *APSA 50*, Canberra, ACT, EJ (2002) [F1]

**Willis, SM**, Tranter, BK, 'Beyond the Digital Divide: Socio-Economic Dimensions of Internet Diffusion in Australia', *The Digital Divide: Technology and Politics in the Information Age*, Hong Kong, 1-17 (2002) [F2]

**Willis, SM**, 'Internet Access and Community Solutions', *International Conference on The Digital Divide: Technology and Politics in the Information Age*, Hong Kong (2002) [F5]

# Visual and Performing Arts

## Other Creative Work

**Broad, EC**, Crossings, Academy Gallery, Launceston, 2 (2002) [L2]

**Anglesey, JN**, Artefact, Academy Gallery, Launceston, 3 (2002) [L3]

**Anglesey, JN**, Coloured, Academy Gallery, Launceston, 3 (2002) [L3]

**Anglesey, JN**, Spur, Academy Gallery, Launceston, 3 (2002) [L3]

**Broad, EC**, Research, Academy Gallery, Launceston, 3 (2002) [L3]

**Broad, EC**, The Contemporary Portrait, Academy Gallery, Launceston, 3 (2002) [L3]

**Dewsbury, V**, Hats off to Rainlover, Academy Gallery, Launceston, 3 (2002) [L3]

**Dewsbury, V**, The Academy Show, Academy Gallery, Launceston, 3 (2002) [L3]

**Ellmoos, N**, The Contemporary Portrait, Academy Gallery, Launceston, 3 (2002) [L3]

**Pitchford, J**, Research, Academy Gallery, Launceston, 3 (2002) [L3]

**Pitchford, J**, The Academy Show, Academy Gallery, Launceston, 3 (2002) [L3]

**Pitchford, J**, The Contemporary Portrait, Academy Gallery, Launceston, 43 (2002) [L3]

## Thesis Accepted for Higher Degree

**Dewsbury, V**, '*Sanctuary*' (2002) [M2]

## Other Public Output

**Ellmoos, N**, 'Art Mechanics', The Examiner Newspaper, Launceston, 14 December 2002 (2002) [O3]

# **Postgraduate Research Activity**

---

# 2002

# **Commerce**

# Economics

## **Journal Article**

**Zhang, Q**, Felmingham, BS, 'The Role of FDI, Exports and Spillover Effects in the Regional Development of China', *The Journal of Development Studies*, **38** (4) 157-178 (2002) [A1]

# Information Systems

## Journal Article

**Cox, RJ**, 'Investigating Emotional Responses in HCI', *Asian Journal of Information Technology*, **1** (1-4) 7-9 (2002) [A1]

## Conference Publication

**Broucek, V**, Turner, P, 'Email and WWW Browsers: A Forensic Computing Perspective on the Need for Improved User Education for Information Systems Security Management', *Proceedings of the 2002 Information Resources Management Association International Conference*, Seattle, Washington, 931-932 (2002) [F1]

**Broucek, V**, Turner, P, 'Rising awareness of forensic issues', *Conference Proceedings*, Maastricht, Netherlands, 68-81 (2002) [F1]

**Broucek, V**, Turner, P, 'Risks and Solutions to Problems Arising from Illegal or Inappropriate On-line Behaviours: Two Core Debates Within Forensic Computing', *Best Paper Proceedings of the EICAR 2002 Conference*, Berlin, 206-219 (2002) [F1]

**Chau, S**, Turner, P, 'A framework for analysing factors influencing small to medium sized enterprises (SME's) ability to derive benefit from the conduct of web-based electronic commerce (EC) - 34 Australian case studies', *Conference Proceedings ECIS 2002*, Gdansk, 625-639 (2002) [F1]

**Chau, S**, Turner, P, 'An Exploration of Factors that Influence the Ability of Small and Medium Sized Enterprises to engage in Electronic Commerce: preliminary findings from 34 Australian case studies', *Proceedings of the*

*Thirteenth Australasian Conference on Information Systems*, Melbourne, 209-217 (2002) [F1]

**Chau, S**, Turner, P, 'Conceptual Framework for Virtual-ness in Small Business Electronic Commerce: four Australian case studies', *Proceedings of the Thirteenth Australasian Conference on Information Systems*, Melbourne, 487-495 (2002) [F1]

**Chau, S**, Turner, P, 'Four Phases of ECommerce: An Analysis of Factors Impacting on SMEs Potential to Derive Benefits from Web-Based ECommerce: 34 Australian Case Studies', *Proceedings of the 2002 Information Resources Management Association International Conference*, Seattle, 933-935 (2002) [F1]

**Clarke, JA**, Turner, P, 'Knowledge Management: Beyond its resource-based view roots', *Proceedings of the ANZAM/IFSAM VIth World Congress*, Gold Coast, 1-8 (2002) [F1]

**Clarke, JL**, Turner, P, 'Critical Reflections in IS Research Methodology: considerations for research design selection and deployment', *Proceedings of the Thirteenth Australasian Conference on Information Systems*, Melbourne, 1219-1229 (2002) [F1]

**Clarke, JL**, Turner, P, 'Knowledge Management and Small Business: Developing an approach to intellectual property practices in the Australian Biotechnology industry', *Proceedings of the Australian Conference of Knowledge Management and Intelligent Decision Support*, Melbourne, 39-52 (2002) [F1]

**Cox, RJ**, 'Should E-Marketing be used in the Tasmanian Organic Industry', *Proceedings of the Thirteenth Australasian Conference on Information Systems*, Melbourne, 711-721 (2002) [F1]

**Fraser, MJ**, Turner, P, 'Project Management: a conceptual framework for identifying components of reported project success - insights for Information Systems (IS) researchers', *Proceedings of the Thirteenth Australasian Conference on Information Systems*, Melbourne, 949-959 (2002) [F1]

**Springer, ML**, Spencer, S\*, 'Paradigm Shifts in Continuity Planning', *Proceedings of the Thirteenth Australasian Conference on Information Systems*, Melbourne, 1093-1100 (2002) [F1]

**Steer, D**, Turner, P, 'ICTs and the role of place: Tasmanian insights', *Refereed Papers from the 4th International Information Technology in Regional Areas Conference*, Rockhampton, 134-139 (2002) [F1]

### **Thesis Accepted for Higher Degree**

**Sinkkonen, T**, 'Determining requirements for supply chain management automation and analysing' (2002) [M1]

# Management

## Conference Publication

**Sheehan, CR, Hanson, DJ, O'Donohue, W, Steen, JT, Cook, CD**, 'Armani suits and lab coats: Can HRM and science co-exist?', *Proceedings of the 16th ANZAM Conference*, Beechworth, Victoria, 1-8 (2002) [F1]

**Woods, M, Hecker, R, Holland, P\***, 'With a little help...strategic use of networking and partnerships by a born-global SME', *SMEs in a global economy conference*, Wollongong, 1-12 (2002) [F1]

# **Postgraduate Research Activity**

---

# 2002

## **Education**

# Education

## **Conference Publication**

**Caney, A**, 'Exploring Mental Computation in the Middle Years', *Mathematics Education in the South Pacific*, New Zealand, 163-170 (2002) [F1]

# Education

## Centre for Research and Learning in Regional Australia

### Journal Article

**Hazzlewood, JM**, 'An ant can eat an elephant ... if it takes small enough bytes', *Australian Journal of Adult Learning*, 42 (3) 1443-1394 (2002) [A2]

Kilpatrick, SI, **Bound, HI**, 'Training Brokers: networks and outcomes in regional Australia', *Learning and Skills Research*, 5 (3) 44 (2002) [A3]

### Conference Publication

**Millar, P**, 'The literacies of 'empowerment': Literacy practices in a socio-economically disadvantaged community', *Bridging the divides: Exclusion/Inclusion*, Sydney, 94-99 (2002) [F2]

**Hazzlewood, JM**, 'From Crystal Set to Cyberland: Third Age Learners and New Technology', *Australiasian Journal on Ageing. International Federation on Ageing 6th Global Conference: Maturity Matters*, Western Australia, 46 (2002) [F3]

**Postgraduate Research Activity**

---

2002

**Health Science**

# Human Life Science

## Journal Article

**Darnton-Hill, I**, Nalubola, R\*, 'Fortification strategies to meet micronutrient needs: successes and failures', *Proceedings of the Nutrition Society*, **61** (1) 231-241 (2002) [A1]

Geraghty, DP, **Mazzone, SB**, 'Respiratory actions of vanilloid receptor agonists in the nucleus of the solitary tract: comparison of resiniferatoxin with non-pungent agents and anandamide', *British Journal of Pharmacology*, **137** 919-927 (2002) [A1]

Munday, BL, **Stewart, NJ**, Sodergren, A\*, 'Accumulation of persistent organic pollutants in Tasmanian platypus (*Ornithorhynchus anatinus*)', *Environmental Pollution*, **120** 233-237 (2002) [A1]

Ramakrishnan, U\*, **Darnton-Hill, I**, 'Assessment and Control of Vitamin A Deficiency Disorders', *Journal of Nutrition*, **132** 2947S-2953S (2002) [A1]

Munday, BL, **Stewart, NJ**, Sodergren, A\*, 'Variations in residues of persistent organic pollutants in a platypus (*Ornithorhynchus anatinus*) at consecutive samplings', *Australian Veterinary Journal*, **80** 299 (2002) [A4]

## Conference Publication

Li, D\*, **Habito, R**, Angelos, G\*, Ball, MJ, Sinclair, AJ\*, 'Biosynthesis of 2-series eicosanoids influenced by animal fat', *Proceedings of Evolution of Food Safety and Nutrition*, Beijing, 3-8 (2002) [F2]

Geraghty, DP, **Mazzone, SB**, Carter, C, 'Effect of systemic capsaicin administration on vanilloid (VR1) and tachykinin (NK1) receptors in the nucleus of the solitary tract of the rat', *Proceedings of ASCEPT*, Melbourne, 22 (2002) [F3]

**Grossel, GW**, Ellis, J\*, Dykova, I\*, Munday, BL, Handlinger, J\*, 'A Novel *Pentacapsula* species in striped trumpeter', *Program and Abstracts for the Annual Scientific Meeting of the Australian Society for Parasitology Inc.*, Hobart, TAS, Australia, 24 (2002) [F3]

**Grossel, GW**, Ellis, JT\*, Dykova, I\*, Handlinger, J\*, Munday, BL, 'Meningoencephalomyelitis Causing Mortality In Striped Trumpeter *Latris Lineata* Due to Infection with a *Pentacapsula* sp. (Myxosporea)', *Impacts of Myxozoan Parasites in Wild and Farmed Finfish*, Nanaimo, B.C., Canada, 20 (2002) [F3]

Li, D\*, **Habito, R**, Angelos, G\*, Ball, MJ, Sinclair, AJ\*, 'Effect of dietary saturated fat on the biosynthesis of thromboxane and prostacyclin in men', *Proceedings of the Fifth Congress on Essential Fatty Acids and Ecosanoids*, Taipei, Taiwan, S2B-04 (2002) [F3]

Munday, BL, **Grossel, GW**, Ellis, J\*, Dykova, I\*, Handlinger, J\*, Whipps, C\*, Kent, M\*, 'A *Pentacapsula* species inhibiting propagation of striped trumpeter - an aquaculture candidate', *Healthy Wealthy and Wise*, Surfers Paradise, QLD, Australia, 5 (2002) [F3]

**Pacque, PFJ**, Booth, C, Dwyer, DB, 'The effect of heat and humidity on salivary immunoglobulin A during moderate intensity exercise', *Journal of Science and Medicine in Sport*, Melbourne, 7 (2002) [F3]

**Ralph, JF**, 'Chemical Nature of Wood and Movement of PEG into Timber', *Australian Timber Drying Group* (2002) [F3]

# Medicine

## Anatomy and Physiology

### Journal Article

**Chung, RS**, Vickers, JC, Chuah, MI, Eckhardt, BL, West, AK, 'Metallothionein-III Inhibits Initial Neurite Formation in Developing Neurons as Well as Postinjury, Regenerative Neurite Sprouting', *Experimental Neurology*, **178** 1-12 (2002) [A1]

**Chung, RS**, Holloway, AF, Eckhardt, BL, Harris, JA, Vickers, JC, Chuah, MI, West, AK, 'Sheep have an unusual variant of the brain-specific metallothionein, metallothionein-III', *Biochemical Journal*, **365** (1) 323-328 (2002) [A1]

Saunders, NR\*, Fry, EJ, Lane, M\*, Dziegielewska, KM\*, 'Spinal cord injuries: making the re-connection', *Biologist*, **49** (3) 1-6 (2002) [A2]

### Conference Publication

Chuah, MI, Choi-Lundberg, DL, Weston, S, **Chung, RS**, Vincent, AJ, West, AK, 'Encapsulated olfactory ensheathing cells in spinal cord repair', *International Journal of Developmental Neuroscience*, Sydney, 707 (2002) [F3]

Chuah, MI, Choi-Lundberg, DL, Weston, S, Vincent, AJ, **Chung, RS**, West, AK, 'Olfactory ensheathing cells promote collateral axonal branching in the lesioned adult rat spinal cord', *3rd Asia Pacific Symposium on Neural Regeneration*, Perth, P28 (2002) [F3]

**Chuckowree, JA**, Foa, LC, Vickers, JC, 'Microtubule stabilization inhibits neurite development and post-injury axonal sprouting *in vitro*', *32nd Annual Meeting for the Society for Neuroscience*, Washington, 133.8 (2002) [F3]

**Chung, RS**, Dittman, J, Vickers, JC, Chuah, MI, West, AK, 'An extracellular role for metallothionein in recovery from brain injury', *3rd Asia Pacific Symposium on Neural Regeneration*, Perth, P47 (2002) [F3]

**Chung, RS**, Dittman, J, Vickers, JC, Chuah, MI, West, AK, 'Extracellular, neuroactive properties of metallothioneins', *32nd Annual Meeting for the Society for Neuroscience*, Washington, 133.9 (2002) [F3]

**Chung, RS**, Dittman, J, Adlard, PA, Vickers, JC, Chuah, MI, West, AK, 'Neuorn-glia communication: metallothionein expression is rapidly increased by astrocytes in response to neuronal injury', *3rd Asia Pacific Symposium on Neural Regeneration*, Perth, P46 (2002) [F3]

Ek, CJ, Weller, WL, Dziegielewska, KM\*, Saunders, NR\*, 'Structural and functional development of the blood-CSF barrier', *32nd Annual Meeting of the Society for Neuroscience*, Washington, 733.1 (2002) [F3]

Ek, CJ, Habgood, MD\*, Dziegielewska, KM, Saunders, NR, 'The route of entry for lipid-insoluble molecules into the developing brain', *Proceedings of the Australian Neuroscience Society*, Sydney, 72 (2002) [F3]

Fry, EJ, Stolp, HB\*, Dziegielewska, KM\*, Saunders, NR\*, 'The fate of brainstem neurons after axotomy by spinal transection in neonatal opossum, *Monodelphis domestica*', *32nd Annual Meeting of the Society for Neuroscience*, Washington, 634.12 (2002) [F3]

Lane, MA, Dziegielewska, KM, Muller, HK, Saunders, NR, 'Early stages of recovery following spinal cord injury in the neonatal opossum', *Proceedings of the Australian Neuroscience Society*, Sydney, 63 (2002) [F3]

Lane, MA, Sharp, K\*, Dziegielewska, KM, Steward, O\*, Saunders, NR, 'Functional recovery following spinal cord injury in the rat and mouse', *Proceedings of the Australian Neuroscience Society*, Sydney, 76 (2002) [F3]

Stolp, HB, Fry, EJ, Dziegielewska, KM, Saunders, NR, 'Fate of axotomised neurons in the CNS of immature opossum', *Proceedings of the Australian Neuroscience Society*, Sydney, 79 (2002) [F3]

Vincent, AJ, West, AK, Chuah, MI, 'Morphological plasticity of olfactory ensheathing cells', *Proceedings of the Australian Neuroscience Society*, Sydney, 158 (2002) [F3]

Vincent, AJ, West, AK, Chuah, MI, 'Morphological plasticity of olfactory ensheathing cells is regulated by cyclic AMP and endothelin-1', *3rd Asia Pacific Symposium on Neural Regeneration*, Perth, P32 (2002) [F3]

Vincent, AJ, West, AK, Vickers, JC, Chuah, MI, 'Response of neurons to injury in coculture with olfactory ensheathing cells', *Internal Journal of Developmental Neuroscience*, Sydney, 720 (2002) [F3]

Woodhall, E, West, AK, Chuah, MI, 'Neuregulin and nogo expression in olfactory ensheathing cells after transplantation into the injured spinal cord', *3rd Asia Pacific Symposium on Neural Regeneration*, Perth, P27 (2002) [F3]

### Thesis Accepted for Higher Degree

Gregory, J, 'The physiological and physical determinants of mountain bike cross country cycling' (2002) [M1]

Bethge, P, 'Energetics and foraging behaviour of the platypus *Ornithorhynchus anatinus*' (2002) [M3]

Ek, CJ, 'Transfer mechanisms for low molecular weight lipid insoluble molecules into the developing brain' (2002) [M3]

Fry, EJ, 'Regeneration of supraspinal projections after spinal cord injury in the neonatal opossum, *Monodelphis domestica*' (2002) [M3]

# Medicine

## Biochemistry

### Journal Article

**Chung, RS**, Vickers, JC, Chuah, MI, Eckhardt, BL, West, AK, 'Metallothionein-III Inhibits Initial Neurite Formation in Developing Neurons as Well as Postinjury, Regenerative Neurite Sprouting', *Experimental Neurology*, **178** 1-12 (2002) [A1]

**Chung, RS**, Holloway, AF, Eckhardt, BL, Harris, JA, Vickers, JC, Chuah, MI, West, AK, 'Sheep have an unusual variant of the brain-specific metallothionein, metallothionein-III', *Biochemical Journal*, **365** (1) 323-328 (2002) [A1]

Clark, MG, Barrett, EJ\*, **Wallis, MG**, Vincent, MA\*, Rattigan, S, 'The Microvasculature in Insulin Resistance and Type 2 Diabetes', *Seminars in Vascular Medicine*, **2** (1) 21-31 (2002) [A1]

**Clerk, LH**, Rattigan, S, Clark, MG, 'Lipid Infusion Impairs Physiologic Insulin-Mediated Capillary Recruitment and Muscle Glucose Uptake In Vivo', *Diabetes*, **51** (4) 1138-1145 (2002) [A1]

Dawson, D\*, Vincent, MA\*, Barrett, EJ\*, Kaul, S\*, **Clark, ADH**, Leong-Poi, H\*, Lindner, JR\*, 'Vascular recruitment in skeletal muscle during exercise and hyperinsulinemia assessed by contrast ultrasound', *American Journal of Physiology - Endocrinology and Metabolism*, **282** (3) E714-E720 (2002) [A1]

**DiMaria, CA**, Rattigan, S, Clark, MG, 'Vasoconstrictor-mediated thermogenesis present in perfused skeletal muscle but absent from perfused heart', *Journal of Thermal Biology*, **27** (1) 151-158 (2002) [A1]

**Newman, JMB**, Rattigan, S, Clark, MG, 'Nutritive blood flow improves interstitial glucose and lactate exchange in perfused rat hindlimb', *American Journal of Physiology - Heart and Circulatory Physiology*, **283** (1) H186-H192 (2002) [A1]

Vincent, MA\*, Dawson, D\*, **Clark, ADH**, Lindner, JR\*, Rattigan, S, Clark, MG, Barrett, EJ\*, 'Skeletal Muscle Microvascular Recruitment by Physiological Hyperinsulinemia Precedes Increases in Total Blood Flow', *Diabetes*, **51** (1) 42-48 (2002) [A1]

**Wallis, MG**, **Wheatley, C**, Rattigan, S, Barrett, EJ\*, **Clark, ADH**, Clark, MG, 'Insulin-Mediated Hemodynamic Changes Are Impaired in Muscle of Zucker Obese Rats', *Diabetes*, **51** (12) 3492-3498 (2002) [A1]

### Conference Publication

Chuah, MI, Choi-Lundberg, DL, Weston, S, **Chung, RS**, **Vincent, AJ**, West, AK, 'Encapsulated olfactory ensheathing cells in spinal cord repair', *International Journal of Developmental Neuroscience*, Sydney, 707 (2002) [F3]

Chuah, MI, Choi-Lundberg, DL, Weston, S, **Vincent, AJ**, **Chung, RS**, West, AK, 'Olfactory ensheathing cells promote collateral axonal branching in the lesioned adult rat spinal cord', *3rd Asia Pacific Symposium on Neural Regeneration*, Perth, P28 (2002) [F3]

**Chung, RS**, Dittman, J, Vickers, JC, Chuah, MI, West, AK, 'An extracellular role for metallothionein in recovery from brain injury', *3rd Asia*

*Pacific Symposium on Neural Regeneration*, Perth, P47 (2002) [F3]

**Chung, RS**, Dittman, J, Vickers, JC, Chuah, MI, West, AK, 'Extracellular, neuroactive properties of metallothioneins', *32nd Annual Meeting for the Society for Neuroscience*, Washington, 133.9 (2002) [F3]

**Chung, RS**, Dittman, J, **Adlard, PA**, Vickers, JC, Chuah, MI, West, AK, 'Neuorn-glia communication: metallothionein expression is rapidly increased by astrocytes in response to neuronal injury', *3rd Asia Pacific Symposium on Neural Regeneration*, Perth, P46 (2002) [F3]

**Clerk, LH**, Smith, ME, Rattigan, S, Clark, MG, 'Reduced nutritive flow in experimental hypertension: the cause of hyperglycemia and hyperlipidemia?', *Diabetes, Vol 51, Supplement 2*, San Francisco, A335 (2002) [F3]

**Vincent, AJ**, West, AK, Chuah, MI, 'Morphological plasticity of olfactory ensheathing cells', *Proceedings of the Australian Neuroscience Society*, Sydney, 158 (2002) [F3]

**Vincent, AJ**, West, AK, Chuah, MI, 'Morphological plasticity of olfactory ensheathing cells is regulated by cyclic AMP and endothelin-1', *3rd Asia Pacific Symposium on Neural Regeneration*, Perth, P32 (2002) [F3]

**Vincent, AJ**, West, AK, Vickers, JC, Chuah, MI, 'Response of neurons to injury in coculture with olfactory ensheathing cells', *Internal Journal of Developmental Neuroscience*, Sydney, 720 (2002) [F3]

**Wheatley, CM**, Bradley, EA, **Wallis, MG**, Rattigan, S, Richards, SM, Barrett, EJ\*, Clark, MG, 'Contraction-mediated capillary recruitment is not impaired in muscle of insulin-resistant obese Zucker rats', *Diabetes, Vol 51, Supplement 2*, San Francisco, A564 (2002) [F3]

**Woodhall, E**, West, AK, Chuah, MI, 'Neuregulin and nogo expression in olfactory ensheathing cells after transplantation into the injured spinal cord', *3rd Asia Pacific Symposium on Neural Regeneration*, Perth, P27 (2002) [F3]

**Zhang, L**, Rattigan, S, Richards, SM, Clark, MG, 'TNF $\alpha$  inhibits low physiologic but not high insulin-mediated capillary recruitment and glucose uptake in vivo', *Diabetes, Vol 51, Supplement 2*, San Francisco, A565 (2002) [F3]

### Thesis Accepted for Higher Degree

**Clerk, LH**, 'Muscle fuel uptake: a result of hormone and substrate interaction affecting regional blood flow' (2002) [M3]

**Newman, JMB**, 'Relationship of microvascular flow distribution to skeletal muscle metabolism' (2002) [M3]

**Wallis, MG**, 'Vascular & metabolic actions of insulin' (2002) [M3]

# Medicine

## Medicine (Discipline)

### Journal Article

Hearps, AC, Burrows, J, **Connor, CE**, Woods, GM, Lowenthal, RM, Ragg, SJ, 'Mitochondrial cytochrome *c* release precedes transmembrane depolarisation and caspase-3 activation during ceramide-induced apoptosis of Jurkat T cells', *Apoptosis*, 7 (5) 387-394 (2002) [A1]

### Conference Publication

Chuah, MI, Choi-Lundberg, DL, Weston, S, **Chung, RS, Vincent, AJ**, West, AK, 'Encapsulated olfactory ensheathing cells in spinal cord repair', *International Journal of Developmental Neuroscience*, Sydney, 707 (2002) [F3]

Chuah, MI, Choi-Lundberg, DL, Weston, S, **Vincent, AJ, Chung, RS**, West, AK, 'Olfactory ensheathing cells promote collateral axonal branching in the lesioned adult rat spinal cord', *3rd Asia Pacific Symposium on Neural Regeneration*, Perth, P28 (2002) [F3]

# Medicine

## Pathology

### Journal Article

**Chung, RS**, Vickers, JC, Chuah, MI, Eckhardt, BL, West, AK, 'Metallothionein-III Inhibits Initial Neurite Formation in Developing Neurons as Well as Postinjury, Regenerative Neurite Sprouting', *Experimental Neurology*, **178** 1-12 (2002) [A1]

**Chung, RS**, Holloway, AF, Eckhardt, BL, Harris, JA, Vickers, JC, Chuah, MI, West, AK, 'Sheep have an unusual variant of the brain-specific metallothionein, metallothionein-III', *Biochemical Journal*, **365** (1) 323-328 (2002) [A1]

Hearps, AC, Burrows, J, **Connor, CE**, Woods, GM, Lowenthal, RM, Ragg, SJ, 'Mitochondrial cytochrome *c* release precedes transmembrane depolarisation and caspase-3 activation during ceramide-induced apoptosis of Jurkat T cells', *Apoptosis*, **7** (5) 387-394 (2002) [A1]

Kirkcaldie, MTK\*, Dickson, TC, **King, CE**, **Grasby, DJ**, Riederer, BM\*, Vickers, JC, 'Neurofilament triplet proteins are restricted to a subset of neurons in the rat neocortex', *Journal of Chemical Neuroanatomy*, **24** (1) 163-171 (2002) [A1]

Vickers, JC, **Adlard, PA**, 'Morphologically distinct plaque types differentially affect dendritic structure and organisation in the early and late stages of Alzheimer's disease', *Acta Neuropathologica*, **103** (4) 377-383 (2002) [A1]

### Conference Publication

**Chuckowree, JA**, Foa, LC, Vickers, JC, 'Microtubule stabilization inhibits neurite development and post-injury axonal sprouting *in*

*vitro*', *32nd Annual Meeting for the Society for Neuroscience*, Washington, 133.8 (2002) [F3]

**Chung, RS**, Dittman, J, Vickers, JC, Chuah, MI, West, AK, 'An extracellular role for metallothionein in recovery from brain injury', *3rd Asia Pacific Symposium on Neural Regeneration*, Perth, P47 (2002) [F3]

**Chung, RS**, Dittman, J, Vickers, JC, Chuah, MI, West, AK, 'Extracellular, neuroactive properties of metallothioneins', *32nd Annual Meeting for the Society for Neuroscience*, Washington, 133.9 (2002) [F3]

**Chung, RS**, Dittman, J, **Adlard, PA**, Vickers, JC, Chuah, MI, West, AK, 'Neuron-glia communication: metallothionein expression is rapidly increased by astrocytes in response to neuronal injury', *3rd Asia Pacific Symposium on Neural Regeneration*, Perth, P46 (2002) [F3]

**Ek, CJ**, Habgood, MD\*, Dziegielewska, KM, Saunders, NR, 'The route of entry for lipid-insoluble molecules into the developing brain', *Proceedings of the Australian Neuroscience Society*, Sydney, 72 (2002) [F3]

**Lane, MA**, Dziegielewska, KM, Muller, HK, Saunders, NR, 'Early stages of recovery following spinal cord injury in the neonatal opossum', *Proceedings of the Australian Neuroscience Society*, Sydney, 63 (2002) [F3]

**Lane, MA**, Sharp, K\*, Dziegielewska, KM, Steward, O\*, Saunders, NR, 'Functional recovery following spinal cord injury in the rat and mouse', *Proceedings of the Australian Neuroscience Society*, Sydney, 76 (2002) [F3]

Stolp, HB, Fry, EJ, Dziegielewska, KM, Saunders, NR, 'Fate of axotomised neurons in the CNS of immature opossum', *Proceedings of the Australian Neuroscience Society*, Sydney, 79 (2002) [F3]

Vincent, AJ, West, AK, Vickers, JC, Chuah, MI, 'Response of neurons to injury in coculture with olfactory ensheathing cells', *Internal Journal of Developmental Neuroscience*, Sydney, 720 (2002) [F3]

# Medicine

## Psychiatry

### Journal Article

Haines, J, Williams, CL, Sale, IM, **Glading, JA**, Davidson, JA, 'The Death of a Leader: Homicide as a Means of Group Disengagement', *Cultic Studies Review*, **1** (2) EJ (2002) [A1]

**Martin, JE, Matthews, AJ**, Martin, F, Kirkby, KC, Alexander, JRM, Daniels, BA, 'Effects of lorazepam and oxazepam on perceptual and procedural memory functions', *Psychopharmacology*, **164** (3) 262-267 (2002) [A1]

**Matthews, AJ**, Kirkby, KC, Martin, F, 'The effects of single-dose lorazepam on memory and behavioural learning', *Journal of Psychopharmacology*, **16** (4) 343-352 (2002) [A1]

# Medicine

## Surgery

### **Conference Publication**

**Bhatia, K**, Lord, RJ, Stanton, P, 'Proteomic technology and the search for new diagnostic and therapeutic targets in breast cancer', *ANZ Journal of Surgery*, Adelaide, A10 (2002) [F3]

# Menzies Centre

## Journal Article

Dwyer, T, Blizzard, CL, **Ashbolt, R**, Plumb, J, Berwick, M\*, Stankovich, J, 'Cutaneous Melanin Density of Caucasians Measured by Spectrophotometry and Risk of Malignant Melanoma, Basal Cell Carcinoma, and Squamous Cell Carcinoma of the Skin', *American Journal of Epidemiology*, **155** (7) 614-621 (2002) [A1]

**Ma, D**, Jones, G, 'Clinical risk factors but not bone density are associated with prevalent fractures in prepubertal children', *Journal of Paediatrics and Child Health*, **38** (5) 497-500 (2002) [A1]

Qin, J\*, Berwick, M\*, **Ashbolt, R**, Dwyer, T, 'Quantifying the Change of Melanoma Incidence by Breslow Thickness', *Biometrics*, **58** (3) 665-670 (2002) [A1]

Rubio, J\*, Bahlo, M\*, Butzkueven, H\*, **van der Mei, I**, Sale, MM, Dickinson, JL, Groom, PS, Johnson, L\*, Simmons, R\*, Tait, B\*, Varney, M\*, Taylor, B\*, Dwyer, T, Williamson, R\*, Gough, N\*, Kilpatrick, T\*, Speed, T\*, Foote, S\*, 'Genetic Dissection of the Human Leukocyte Antigen Region by Use of Haplotypes of Tasmanians with Multiple Sclerosis', *American Journal of Human Genetics*, **70** (5) 1125-1137 (2002) [A1]

Sale, MM, Craig, JE, **Charlesworth, JC**, Fitzgerald, LM, Hanson, I\*, Dickinson, JL,

Matthews, S\*, van Heyningen, V\*, Fingert, J\*, Mackey, DA, 'Broad Phenotypic variability in a Single Pedigree With a Novel 1410delC Mutation in the PST Domain of the *PAX6* Gene', *Human Mutation*, **20** (4) 322 (2002) [A1]

Sale, MM, Fitzgerald, LM, **Charlesworth, JC**, Bowden, D\*, Rich, S\*, 'Evidence for a Novel Type 1 Diabetes Susceptibility Locus on Chromosome 8', *Diabetes*, **51** (3) S316-S319 (2002) [A1]

Stankovich, J, Sale, MM, Cooley, HM, Bahlo, M\*, **Reilly, A**, Dickinson, JL, Jones, G, 'Investigation of chromosome 2q in osteoarthritis of the hand: no significant linkage in a Tasmanian population', *Annals of the Rheumatic Diseases*, **61** (12) 1081-1084 (2002) [A1]

**van der Mei, I**, Blizzard, CL, Stankovich, J, Ponsonby, AL, Dwyer, T, 'Misclassification due to body hair and seasonal variation on melanin density estimates for skin type using spectrophotometry', *Journal of Photochemistry and Photobiology B: Biology*, **68** (1) 45-52 (2002) [A1]

## Review

Ponsonby, AL, McMichael, A\*, **van der Mei, I**, 'Ultraviolet radiation and autoimmune disease: insights from epidemiological research', *Toxicology*, **27** (181-182) 71-78 (2002) [D1]

# Pharmacy

## Journal Article

Boyle, RR, McLean, SR, Brandon, S, **Pass, GJ**, Davies, NW, 'Application of solid-phase microextraction to the quantitative analysis of 1,8-cineole in blood and expired air in a *Eucalyptus* herbivore, the brushtail possum (*Trichosurus vulpecula*)', *Journal of Chromatography B*, **780** (1) 397-406 (2002) [A1]

**Pass, GJ**, McLean, SR, 'Inhibition of the microsomal metabolism of 1,8-cineole in the common brushtail possum (*Trichosurus vulpecula*) by terpenes and other chemicals', *Xenobiotica*, **32** (12) 1109-1126 (2002) [A1]

**Pass, GJ**, McLean, SR, Stupans, I\*, Davies, NW, 'Microsomal metabolism and enzyme kinetics of the terpene *p*-cymene in the common brushtail possum (*Trichosurus vulpecula*), koala

(*Phascolarctos cinereus*) and rat', *Xenobiotica*, **32** (5) 383-397 (2002) [A1]

**Naunton, M**, Peterson, GM, Griffin, G, 'Corticosteroid-induced osteoporosis - pharmacists well placed to assist', *Australian Pharmacists*, **21** (1) 27-29 (2002) [A2]

Peterson, GM, **Jackson, SL**, 'Reducing the hazards of anticoagulation in elderly patients through near-patient testing by pharmacists', *Australian Pharmacists*, **21** (9) 679-681 (2002) [A2]

Peterson, GM, **Naunton, M**, 'Simple measures to assist with drug therapy can produce large benefits for elderly patients', *Australian Pharmacists*, **21** (5) 370-372 (2002) [A2]

**Postgraduate Research Activity**

---

2002

**Science, Engineering and  
Technology**

# Agricultural Science

## Journal Article

**Barry, KM**, Davies, NW, Mohammed, CL, 'Effect of season and different fungi on phenolics in response to xylem wounding and inoculation in *Eucalyptus nitens*', *Forest Pathology*, **32** (1) 163-178 (2002) [A1]

**Close, DC**, Beadle, CL, Holz, GK, Brown, PH, 'Effect of shade cloth tree shelters on cold-induced photo inhibition, foliar anthocyanin and growth of *Eucalyptus globulus* and *E. nitens* seedlings during establishment', *Australian Journal of Botany*, **50** (1) 15-20 (2002) [A1]

**Close, DC**, Wilson, SJ, 'Provenance effects on pre-germination treatments for *Eucalyptus regnans* and *E. delegatensis* seed', *Forest Ecology and Management*, **170** 299-305 (2002) [A1]

**Cumming, JP**, Doyle, RB, Brown, PH, 'Clomazone dissipation in four Tasmanian topsoils', *Weed Science*, **50** (1) 405-409 (2002) [A1]

**Davies, JT**, Williams, MA\*, Allen, GR, 'A new method for sampling eriophyoid mites from architecturally complex plant structures', *Journal of Applied Entomology*, **126** (1) 303-305 (2002) [A1]

Pethybridge, SJ, **Scott, JB**, **Harrison, KS**, Hay, FS, 'Genetic diversity of *Phoma ligulicola* isolates from pyrethrum in Tasmania', *Phytopathology*, **92** (6) S35 (2002) [A1]

**Ramona, Y**, Line, MA, 'Potential for the Large-Scale Production Of a Biocontrol Fungus In Raw and Composted Paper Mill Waste', *Compost Science and Utilization*, **10** (1) 57-62 (2002) [A1]

**Rasmussen, SKJ**, Ross, T, Olley, J, McMeekin, TA, 'A process risk model for the shelf life of Atlantic salmon fillets', *International Journal of Food Microbiology*, **73** (1) 47-60 (2002) [A1]

**Rawnsley, RP**, Donaghy, DJ, Fulkerson, WJ\*, Lane, PA, 'Changes in the physiology and feed quality of cocksfoot (*Dactylis glomerata* L.) during regrowth', *Grass and Forage Science*, **57** (1) 203-211 (2002) [A1]

**Shabala, SI**, Budde, B\*, Ross, T, Siegumfeldt, H\*, McMeekin, TA, 'Responses of *Listeria monocytogenes* to acid stress and glucose availability monitored by measurements of intracellular pH and viable counts', *International Journal of Food Microbiology*, **75** (1) 89-97 (2002) [A1]

**Shabala, SI**, Budde, B\*, Ross, T, Siegumfeldt, H\*, Jakobsen, M\*, McMeekin, TA, 'Responses of *Listeria monocytogenes* to Acid Stress and Glucose Availability Revealed by a Novel Combination of Fluorescence Microscopy and Microelectrode Ion-Selective Techniques', *Applied and Environmental Microbiology*, **68** (4) 1794-1802 (2002) [A1]

Shabala, SN, **Shabala, SI**, 'Kinetics of net H<sup>+</sup>, Ca<sup>2+</sup>, K<sup>+</sup>, Na<sup>+</sup>, NH<sub>4</sub><sup>+</sup>, and Cl<sup>-</sup> fluxes associated with post-chilling recovery of plasma membrane transporters in *Zea mays* leaf and root tissues', *Physiologia Plantarum*, **114** 47-56 (2002) [A1]

Shabala, SN, **Knowles, AE**, 'Rhythmic patterns of nutrient acquisition by wheat roots', *Functional Plant Biology*, **29** (1) 595-605 (2002) [A1]

**Spurr, C**, Fulton, DA, Brown, PH, Clark, RJ, 'Changes in Seed Yield and Quality with

Maturity in Onion (*Allium cepa* L., cv. 'Early Cream Gold'), *Journal of Agronomy and Crop Science*, **188** (4) 275-280 (2002) [A1]

**Stirling, KJ**, Clark, RJ, Brown, PH, Wilson, SJ, 'Effect of photoperiod on flower bud initiation and development in myoga (*Zingiber mioga* Roscoe)', *Scientia Horticulturae*, **95** (1) 261-268 (2002) [A1]

**Nahrung, HF**, 'Biological differences between Mainland and Tasmanian *Chrysophtharta Agricola*, A Eucalyptus Leaf Beetle', *The Tasmanian Naturalist*, **124** (1) 56-64 (2002) [A2]

**Heath, AT**, Line, MA, Wilson, SJ, Bound, SA, Andrews, PG, 'Apple Replant Disease - Potential Countermeasures', *Tree Fruits Tasmania, A Publication for Tasmanian Pome and Stone Fruit Growers*, No 7 (December 2002) 50 (2002) [A3]

## Chapter in Book

Nichols, PD\*, **Nichols, CAM**, 'Archaea: Detection Methods', *Encyclopaedia of Environmental Microbiology*, John Wiley & Sons, Gabriel Britton (ed), New York, 246-259 (2002) [C2]

## Conference Publication

**Cumming, JP**, Brown, PH, Doyle, RB, Frost, P\*, 'Distribution of the herbicides clomazone and pendimethalin in soils, and implications for activity and persistence', *13th Australian Weeds Conference Papers & Proceedings*, Perth, Western Australia, 321-324 (2002) [F1]

**Rawnsley, RP**, Lane, PA, Brown, PH, Groom, T\*, 'A survey of Apiaceae weeds in pyrethrum fields and an assessment of factors controlling the germination of *Torilis nodosa* and *Anthriscus caucalis*', *13th Australian Weeds Conference Papers & Proceedings*, Perth, WA, 212-217 (2002) [F1]

**Smethurst, C**, Garnett, TP\*, Auricht, GC\*, Shabala, SN, 'The effect of waterlogging on chlorophyll fluorescence parameters in lucerne (*Medicago sativa*)', *NAAIC Abstracts for the 38th North American Alfalfa Improvement Conference*, Sacramento CA, USA, 1 (2002) [F2]

**Abell, GC**, Bowman, JP, 'Flavobacteria in the Southern Ocean', *8th Symposium on Aquatic Microbial Ecology SAME-8*, Taormina, Italy, L44 (2002) [F3]

Carter, CG, **Bransden, MP**, Lewis, T, Nichols, PD\*, 'Fish oil replacement in feeds for Tasmanian grown Atlantic salmon, *Salmo salar*', *Feeding for Quality: 10th International Symposium on Nutrition and Feeding in Fish*, Rhodes, Greece, 34 (2002) [F3]

**Davies, SR**, Yates, RJ\*, Howieson, JG\*, Lane, PA, 'Field Evaluation of Root Nodule Bacteria for *Dorycnium* spp', *Proceedings of the 13th Australian Nitrogen Fixation Conference*, Adelaide, South Australia, 1 (2002) [F3]

**Davies, SR**, Yates, RJ\*, Howieson, JG\*, Lane, PA, 'Selection and Evaluation of Root Nodule Bacteria for *Dorycnium* spp', *Proceedings of the 5th European Nitrogen Fixation Conference*, Norwich, UK, 1 (2002) [F3]

Eyles, A, Davies, NW, Yuan, ZQ, Mohammed, CL, 'Host response to natural infection by a stem canker (*Cytonaema* sp.) in the aerial bark of *Eucalyptus globulus*: a preliminary report', *Poster Session, VII International Mycological Congress*, Oslo, Norway (2002) [F3]

Eyles, A, Davies, NW, Mohammed, CL, 'Traumatic oil glands induced by pruning in the wound-associated phloem of *Eucalyptus globulus*', *Poster Session, VII International Mycological Congress*, Oslo, Norway (2002) [F3]

Knowles, AE, Shabala, SN, 'Root adaptive strategies to adverse environmental conditions revealed by non-invasive ion flux measurements', *Combined Conference Abstracts, ComBio 2002*, Sydney Convention Centre, Sydney, Australia, POS-TUE-069 (2002) [F3]

Lewis, TT, Nichols, PD\*, Battaglione, SC, Morehead, DT, McMeekin, TA, 'Polyunsaturated fatty acids from bacteria and thraustochytrids: production and use to enrich rotifers and fish larvae', *Conference Abstracts 26th Annual Larval Fish Conference*, Bergen, Norway, 74 (2002) [F3]

Nahrung, HF, Allen, GR, 'Reproductive ecology of *Chrysophtharta agricola*, a pest of eucalypt plantations in Tasmania', *Australian Entomological Society 33rd AGM and Scientific Meeting*, Fremantle, WA, 1 (2002) [F3]

Powell, S, Ferguson, SH\*, Franzmann, PD\*, Snape, I\*, Bowman, JP, 'Effect of temperature on Antarctic soil microbial populations involved in hydrocarbon biodegradation', *Proceedings of the 3rd International Conference Contaminants in*

*Freezing Ground*, Hobart, Tasmania, 113-114 (2002) [F3]

Rapley, LP, Allen, GR, Potts, BM, 'Genetic Variation in *Eucalyptus Globulus* in Relation to Host Preference of the Southern Eucalypt Beetle, *Chrysophtharta Agricola*', *Australian Entomological Society 33rd AGM and Scientific Meeting*, Fremantle, WA, 1 (2002) [F3]

Shabala, SN, **Wherrett, TC**, Williams, J, 'Ion transporters mediating plant adaptive responses to salinity and aluminium stress', *Program and Abstracts, 26th Annual Conference of the Australia Society for Biophysics*, Melbourne, Victoria, Australia, Session #6 (2002) [F3]

Shabala, SN, **Shabala, SI**, Van Volkenburgh, E\*, 'Whole-plant responses to salinity and their amelioration by externally supplied calcium: A case study for pea and barley', *Combined Conference Abstracts, ComBio 2002*, Sydney Convention Centre, Sydney, Australia, POS-TUE-082 (2002) [F3]

**Smethurst, C**, Shabala, SN, 'Effects of waterlogging on chlorophyll fluorescence, photosynthesis, chlorophyll content and biomass of four lucerne cultivars', *Combined Conference Abstracts ComBio 2002*, Sydney, Australia, 059 (2002) [F3]

Nichols, DS, Sanderson, K, Buia, AD, **Van De Kamp, JL**, Holloway, PE, Bowman, JP, **Smith, M**, **Mancuso-Nichols, CA**, Nichols, PD\*, McMeekin, TA, 'Bioprospecting and biotechnology in Antarctica', *Conference Proceedings - The Antarctic: Past, Present and Future*, University of Tasmania, Hobart, Tasmania, 85-105 (2002) [F4]

### Contract Report, Consultant's Report

Pethybridge, SJ, Crowle, DR, *Epidemiology and Management of Pathogens Infecting Hop (Humulus lupulus L.) in Australia*, Australian Hop Marketers Pty Ltd, Final (2002) [I1]

Stirling, KJ, *A Travel Report presented to the Rural Industries Research and Development Corporation on Attendance at the 2002 International Society for Horticultural Science Conference in Toronto, Canada*, RIRDC, 1 (2002) [I1]

### Thesis Accepted for Higher Degree

Barrett, R, 'Critical Sample Size and Satellite Image Selection for the Recognition of Poppy and Pyrethrum Crops in North West Tasmania' (2002) [M1]

Tabart, TL, 'Collaborative Community Decision Making as a Means Towards Sustainable Local Development' (2002) [M1]

Gracie, AJ, 'A study of non-pathogenic factors affecting the marketable yield of carrots (*Daucus carota* L.)' (2002) [M3]

Laffan, MD, 'Temperate Forest Soils of Tasmania and Northern South Island, New Zealand: Properties, Distribution, Genesis and Implications for Sustainable Use' (2002) [M3]

Shabala, SI, 'A Novel Application of Non-invasive Microelectrode Ion Flux Measuring Technique in Food Microbiology' (2002) [M3]

### Other Public Output

Jericho, C, Wilson, CR, 'Tomato spotted wilt virus - understanding the epidemics', *Potato Australia*, 13 (2002) [O5]

Smethurst, C, Shabala, SN, 'Developing rapid non-destructive screening techniques for waterlogging and salinity tolerance in lucerne', *Power Point Presentation - Adelaide, SA 2002*, ACIAR, Hobart, Tasmania (2002) [O5]

Smethurst, C, Shabala, SN, 'Early Physiological Stress Indicators of Tolerance to Waterlogging in Lucerne', *Power Point Presentation - Adelaide, SA 2002*, ACIAR, Hobart, Tasmania (2002) [O5]

Wilson, CR, Jericho, C, 'New ways to combat tomato spotted wilt virus', *Eyes on Potato*, 19 (2002) [O5]

# Agricultural Science

## Centre for Food Safety and Quality

### **Journal Article**

Nichols, DS, Sanderson, K, **Shaw, KN**,  
'Strategies for Identifying New Antimicrobial  
Targets', *Microbiology Australia*, 23 (5) 4-7 (2002)  
[A3]

# Agricultural Science

## Tasmanian Institute of Agricultural Research

### Journal Article

Pethybridge, SJ, **Scott, JB, Harrison, KS**, Hay, FS, 'Genetic diversity of *Phoma ligulicola* isolates from pyrethrum in Tasmania', *Phytopathology*, **92** (6) S35 (2002) [A1]

**Rawnsley, RP**, Donaghy, DJ, Fulkerson, WJ\*, Lane, PA, 'Changes in the physiology and feed quality of cocksfoot (*Dactylis glomerata* L.) during regrowth', *Grass and Forage Science*, **57** (1) 203-211 (2002) [A1]

**Heath, AT**, Line, MA, Wilson, SJ, Bound, SA, Andrews, PG, 'Apple Replant Disease - Potential Countermeasures', *Tree Fruits Tasmania, A Publication for Tasmanian Pome and Stone Fruit Growers*, No 7 (December 2002) 50 (2002) [A3]

### Conference Publication

**Abell, GC**, Bowman, JP, 'Flavobacteria in the Southern Ocean', *8th Symposium on Aquatic Microbial Ecology SAME-8*, Taormina, Italy, L44 (2002) [F3]

**Lewis, TT**, Nichols, PD\*, Battaglione, SC, Morehead, DT, McMeekin, TA, 'Polyunsaturated fatty acids from bacteria and thraustochytrids: production and use to enrich rotifers and fish larvae', *Conference Abstracts 26th Annual Larval Fish Conference*, Bergen, Norway, 74 (2002) [F3]

Shabala, SN, **Shabala, SI**, Van Volkenburgh, E\*, 'Whole-plant responses to salinity and their amelioration by externally supplied calcium: A case study for pea and barley', *Combined Conference Abstracts, ComBio 2002*, Sydney Convention Centre, Sydney, Australia, POS-TUE-082 (2002) [F3]

### Contract Report, Consultant's Report

Pethybridge, SJ, **Crowle, DR**, *Epidemiology and Management of Pathogens Infecting Hop (*Humulus lupulus* L.) in Australia*, Australian Hop Marketers Pty Ltd, Final (2002) [I1]

### Thesis Accepted for Higher Degree

**Barrett, R**, 'Critical Sample Size and Satellite Image Selection for the Recognition of Poppy and Pyrethrum Crops in North West Tasmania' (2002) [M1]

**Gracie, AJ**, 'A study of non-pathogenic factors affecting the marketable yield of carrots (*Daucus carota* L.)' (2002) [M3]

### Other Public Output

**Jericho, C**, Wilson, CR, 'Tomato spotted wilt virus - understanding the epidemics', *Potato Australia*, 13 (2002) [O5]

Wilson, CR, **Jericho, C**, 'New ways to combat tomato spotted wilt virus', *Eyes on Potato*, 19 (2002) [O5]

# Architecture

## **Thesis Accepted for Higher Degree**

**Neale, A**, 'Illuminating Nature: The Art and Design of E L Bateman (1816-1897)' (2002) [M1]

# Central Science Laboratory

## Journal Article

**Barry, KM**, Davies, NW, Mohammed, CL, 'Effect of season and different fungi on phenolics in response to xylem wounding and inoculation in *Eucalyptus nitens*', *Forest Pathology*, **32** (1) 163-178 (2002) [A1]

Boyle, RR, McLean, SR, Brandon, S, **Pass, GJ**, Davies, NW, 'Application of solid-phase microextraction to the quantitative analysis of 1,8-cineole in blood and expired air in a *Eucalyptus* herbivore, the brushtail possum (*Trichosurus vulpecula*)', *Journal of Chromatography B*, **780** (1) 397-406 (2002) [A1]

**Edwards, A**, Jones, SM, Davies, NW, 'A possible alternative to 17 $\beta$ -estradiol in a viviparous lizard, *Tiliqua nigrolutea*', *General and Comparative Endocrinology* (129) 114-121 (2002) [A1]

**Jones, TH**, Potts, BM, Vaillancourt, RE, Davies, NW, 'Genetic resistance of *Eucalyptus globulus* to autumn gum moth defoliation and the role of

cuticular waxes', *Canadian Journal of Forest Research*, **32** 1961-1969 (2002) [A1]

**Pass, GJ**, McLean, SR, Stupans, I\*, Davies, NW, 'Microsomal metabolism and enzyme kinetics of the terpene *p*-cymene in the common brushtail possum (*Trichosurus vulpecula*), koala (*Phascolarctos cinereus*) and rat', *Xenobiotica*, **32** (5) 383-397 (2002) [A1]

## Conference Publication

**Eyles, A**, Davies, NW, Yuan, ZQ, Mohammed, CL, 'Host response to natural infection by a stem canker (*Cytonaema* sp.) in the aerial bark of *Eucalyptus globulus*: a preliminary report', *Poster Session, VII International Mycological Congress*, Oslo, Norway (2002) [F3]

**Eyles, A**, Davies, NW, Mohammed, CL, 'Traumatic oil glands induced by pruning in the wound-associated phloem of *Eucalyptus globulus*', *Poster Session, VII International Mycological Congress*, Oslo, Norway (2002) [F3]

# Chemistry

## Journal Article

**Barnett, VG**, Banham, P\*, Yates, BF, 'Inhibition of photo-induced colour reversion of TMP and peroxide-bleached TMP by mercaptans', *APPITA Journal*, **55** 27-34,48 (2002) [A1]

**Breadmore, MC**, **Palmer, AS**, Curran, MAJ\*, Macka, M, Avdalovic, N\*, Haddad, PR, 'On-Column Ion-Exchange Preconcentration of Inorganic Anions in Open Tubular Capillary Electrochromatography with Elution Using Transient-Isotachophoretic Gradients. 3. Implementation and Method Development', *Analytical Chemistry*, **74** (9) 2112-2118 (2002) [A1]

Canty, AJ, Hettinga, M, **Patel, J**, Pfeffer, M\*, Skelton, BW\*, White, AH\*, 'Neopentyl- and trimethylsilylmethylpalladium chemistry: synthesis of reagents for organopalladium chemistry and the crystal structure of the neopentyl(phenyl) palladium(IV) complex [Pd(mq)(CH<sub>2</sub>CMe<sub>3</sub>)Ph(bpy)]Br (mq=8-methylquinolinyl, bpy=2,2'-bipyridine)', *Inorganica Chimica Acta*, **338** 94-98 (2002) [A1]

Canty, AJ, **Patel, J**, Pfeffer, M\*, Skelton, BW\*, White, AH\*, 'Organopalladium(IV) and platinum(IV) complexes containing the bis(pyrazolyl)borate ligand. Structures of PtMe<sub>3</sub>{(pz)<sub>2</sub>BH<sub>2</sub>}(py) (py = pyridine) and Pt(mq)Me<sub>2</sub>{(pz)<sub>2</sub>BH<sub>2</sub>} (mq = 8-methylquinolinyl) and detection of a neutral organopalladium(IV) phosphine complex', *Inorganica Chimica Acta*, **327** 20-25 (2002) [A1]

Fritz, J, **Breadmore, MC**, **Hilder, EF**, Haddad, PR, 'Use of ionic polymers as stationary and

pseudo-stationary phases in the separation of ions by capillary electrophoresis and capillary electrochromatography', *Journal of Chromatography A*, **942** 11-32 (2002) [A1]

**Johns, CA**, Macka, M, Haddad, PR, 'Optimisation of probe concentration in indirect photometric detection in capillary electrophoresis using highly absorbing dyes', *Electrophoresis*, **23** 43-48 (2002) [A1]

**Jongaramruong, J**, Blackman, AJ, Skelton, BW\*, White, AH\*, 'Chemical Relationships between the Sea Hare *Aplysia parvula* and the Red Seaweed *Laurencia filiformis* from Tasmania', *Australian Journal of Chemistry*, **55** 275-280 (2002) [A1]

Lacabra, MAC\*, Canty, AJ, Lutz, M\*, **Patel, J**, Spek, AL\*, Sun, H, van Koten, G\*, 'Mono(*p*-tolyl)platinum(II) and bis(*p*-tolyl)platinum(II) complexes of diethylsulfide as reagents for organoplatinum synthesis. Structures of [Pt(*p*-Tol)<sub>2</sub>(μ-SEt<sub>2</sub>)]<sub>2</sub> and PtCl(*p*-Tol)(bpy) (bpy = 2,2'-bipyridine)', *Inorganica Chimica Acta*, **327** 15-19 (2002) [A1]

**Nielsen, DJ**, **Magill, AM**, Yates, BF, Cavell, KJ\*, Skelton, BW\*, White, AH\*, 'Experimental and computational study of a reductive elimination mechanism in a methyl-Pd(II)-CNC carbene complex', *Chemical Communications* 2500-2501 (2002) [A1]

**O'Reilly, JW**, 'Application of Ion-Chromatography to Gold Thiosulfate Leach Solutions', *Australian Journal of Chemistry*, **55** 546 (2002) [A1]

**Sun, B**, Macka, M, Haddad, PR, 'Separation of organic and inorganic arsenic species by capillary electrophoresis using direct spectrophotometric detection', *Electrophoresis*, **23** 2430-2438 (2002) [A1]

**Zakaria, P**, Macka, M, Haddad, PR, 'Electrokinetic Chromatography Utilizing Two Pseudostationary Phases Providing Ion-Exchange and Hydrophobic Interactions', *Analytical Chemistry*, **74** (6) 1241-1248 (2002) [A1]

**Zakaria, P**, Macka, M, Fritz, J, Haddad, PR, 'Modelling and optimization of the electrokinetic chromatographic separation of mixtures of organic anions and cations using poly(diallyldimethyl-ammonium chloride) and hexanesulfonate as mixed pseudostationary phases', *Electrophoresis*, **23** 2821-2832 (2002) [A1]

**Zakaria, P**, Macka, M, Haddad, PR, 'Modelling, optimisation and control of selectivity in the separation of aromatic bases by electrokinetic chromatography using a neutral cyclodextrin as a pseudostationary phase', *Electrophoresis*, **23** 1844-1852 (2002) [A1]

**Grosse, AC**, 'Gold Recovery from Thiosulphate Leach Liquors using Ion Exchange Resins', *Australian Journal of Chemistry*, **55** 547 (2002) [A4]

## Conference Publication

Canty, AJ, **Denney, MC**, Skelton, BW\*, White, AH\*, 'Carbon-Oxygen Bond Formation at Organopalladium Centres', *XXth International Conference on Organometallic Chemistry Book of Extracts*, Corfu, Greece, 263 (2002) [F3]

**Daglish, RW**, Nowak, BF, Lewis, TW, 'CU/N ratios in the gills of rainbow trout provide evidence of copper exposure under conditions of mixed metal exposure', *Interact 2002 Program and Abstracts*, Sydney, Australia, 184 (2002) [F3]

## Other Public Output

**McLean, DS**, Stack, KR, 'Compositional Effects of Pitch Deposition at 50 degrees C', *Report to Norske-Skog*, Norske-Skog, Hobart, Tasmania, Australia, 2002, August (2002) [O5]

**McLean, DS**, Stack, KR, 'Silvation vs. Methylation of Wood Pitch Extractives', *Norske-Skog*, Hobart, Tasmania, Australia, 2002, June (2002) [O5]

**Vercoe, DQ**, Stack, KR, 'Interaction of Pitch Components at a Molecular Level', *Report to Norske-Skog*, Norske-Skog, Hobart, Tasmania, Australia, 2002, December (2002) [O5]

# Computing

## **Thesis Accepted for Higher Degree**

**Dermoudy, J** 'Effective Runtime Management of Parallelism in a Functional Programming Context' (2002) [M3]

# CRC – Antarctic and Southern Ocean Environments

## Journal Article

**Bi, D**, Budd, WF, Hirst, AC\*, Wu, X, 'Response of the Antarctic circumpolar current transport to global warming in a coupled model', *Geophysical Research Letters*, 29 (24) EJ (2002) [A1]

Fricker, HA\*, Allison, I, Craven, M, Hyland, G, Ruddell, A, Young, NW, Coleman, R, **King, MA**, Krebs, K\*, Popov, S\*, 'Redefinition of the Amery Ice Shelf, East Antarctica, grounding zone', *Journal of Geophysical Research*, 107 (B5) EPM6-1 - 6-9 (2002) [A1]

**Lea, MA**, Nichols, PD, Wilson, G\*, 'Fatty acid composition of lipid-rich myctophids and mackerel icefish (*Chamsocephalus gunnari*) - Southern Ocean food-web implications', *Polar Biology* (25) 843-854 (2002) [A1]

Souney, JM\*, Mayewski, PA\*, Goodwin, ID\*, Meeker, LD\*, Morgan, VI, Curran, MAJ, van Ommen, TD, **Palmer, AS**, 'A 700-year record of atmospheric circulation developed from the Law Dome ice core, East Antarctica', *Journal of Geophysical Research*, 107 (D22) EJ (2002) [A1]

## Conference Publication

Nichols, DS, Sanderson, K, Buia, AD, **Van De Kamp, JL**, Holloway, PE, Bowman, JP, **Smith, M**, **Mancuso-Nichols, CA**, Nichols, PD\*, McMeekin, TA, 'Bioprospecting and biotechnology in Antarctica', *Conference Proceedings - The Antarctic: Past, Present and Future*, University of Tasmania, Hobart, Tasmania, 85-105 (2002) [F4]

# CRC – Sustainable Production Forestry

## Journal Article

**Barbour, RC**, Potts, BM, Vaillancourt, RE, Tibbits, WN, Wiltshire, RJE, 'Gene flow between introduced and native *Eucalyptus* species', *New Forests*, **23** (Bimonthly) 177-191 (2002) [A1]

Battaglia, M, **Mummery, DC**, Smith, A\*, 'Economic analysis of site survey and productivity modelling for the selection of plantation areas', *Forest Ecology and Management*, **162** (2-3) 185-195 (2002) [A1]

**Close, DC**, Beadle, CL, Holz, GK, Brown, PH, 'Effect of shade cloth tree shelters on cold-induced photoinhibition, foliar anthocyanin and growth of *Eucalyptus globulus* and *E. nitens* seedlings during establishment', *Australian Journal of Botany*, **50** (1) 15-20 (2002) [A1]

Eyles, A, Mohammed, CL, 'Comparison of CEPA (2-chloroethyl phosphonic acid) induced responses in juvenile *Eucalyptus nitens*, *E. globulus* and *E. obliqua*: a histochemical and anatomical study', *IAWA Journal*, **23** (4) 419-430 (2002) [A1]

**Nahrung, HF**, Murphy, BD\*, 'Differences in egg parasitism of *Chrysophtharta agricola* (Coleoptera: Chrysomelidae) by *Enoggera nassaui* Girault (Hymenoptera: Pteromalidae) in relation to host and parasitoid origin', *Australian Journal of Entomology*, **41** (1) 267-271 (2002) [A1]

**Nahrung, HF**, Reid, C\*, 'Reproductive Development of the Tasmanian Eucalypt-Defoliating Beetles *Chrysophtharta Agricola*

(Chapuis) and *C. Bimaculata* (Olivier) (Coleoptera: Chrysomelidae: Paropsini)', *The Coleopterists Bulletin*, **56** (1) 84-95 (2002) [A1]

Shabala, SN, **Knowles, AE**, 'Rhythmic patterns of nutrient acquisition by wheat roots', *Functional Plant Biology*, **29** (1) 595-605 (2002) [A1]

## Conference Publication

**Knowles, AE**, Shabala, SN, 'Root adaptive strategies to adverse environmental conditions revealed by non-invasive ion flux measurements', *Combined Conference Abstracts, ComBio 2002*, Sydney Convention Centre, Sydney, Australia, POS-TUE-069 (2002) [F3]

**Nahrung, HF**, Allen, GR, 'Reproductive ecology of *Chrysophtharta agricola*, a pest of eucalypt plantations in Tasmania', *Australian Entomological Society 33rd AGM and Scientific Meeting*, Fremantle, WA, 1 (2002) [F3]

**Rapley, LP**, Allen, GR, Potts, BM, 'Genetic Variation in *Eucalyptus Globulus* in Relation to Host Preference of the Southern Eucalypt Beetle, *Chrysophtharta Agricola*', *Australian Entomological Society 33rd AGM and Scientific Meeting*, Fremantle, WA, 1 (2002) [F3]

Seeman, OD\*, **Nahrung, HF**, 'Sexually Transmitted Parasitic Mites (Acari: Podapolipidae) of Paropsine Beetles (Chrysomelidae)', *Australian Entomological Society 33rd AGM and Scientific Meeting*, Fremantle, WA, 1 (2002) [F3]

# Earth Sciences

## Journal Article

Lo, CH\*, **Howard, KT**, Chung, SL\*, Meffre, S,  
'Laser fusion argon-40/argon-39 ages of Darwin  
impact glass', *Meteoritics and Planetary Science*,  
37 (8) 1555-1562 (2002) [A1]

## Conference Publication

Zaw, K, **Limtrakun, P**, Yui, TF\*, Ryan, CG\*,  
Mernagh, TP\*, 'Mineral Chemistry, Oxygen  
Isotopes and Fluid/Melt Inclusion Studies  
Bearing on the Genesis of The Denchai  
Sapphires, Northern Thailand', *Proceedings*,  
Bangkok, Thailand, 309-314 (2002) [F1]

# Earth Sciences

## Centre for Ore Deposit Research Australian Research Council Special Research Centre

### Journal Article

**Anderson, BR**, Gemmell, JB, Nelson, DR\*, 'Lead isotope evolution of mineral deposits in the Proterozoic Throssell Group, Western Australia', *Economic Geology*, **97** (4) 897-911 (2002) [A1]

Danyushevsky, LV, **McNeill, AW**, Sobolev, AV\*, 'Experimental and petrological studies of melt inclusions in phenocrysts from mantle-derived magmas: an overview of techniques, advantages and complications', *Chemical Geology*, **183** (1-4) 5-24 (2002) [A1]

**Gifkins, CC**, McPhie, J, Allen, RL\*, 'Pumiceous rhyolitic peperite in ancient submarine volcanic successions', *Journal of Volcanology and Geothermal Research*, **114** (12) 181-203 (2002) [A1]

Holliday, JR\*, **Wilson, AJ**, Blevin, PL\*, Tedder, IJ\*, Dunham, PD\*, Pfitzner, M\*, 'Porphyry gold-copper mineralisation in the Cadia district, eastern Lachlan Fold Belt, New South Wales, and its relationship to shoshonitic magmatism', *Mineralium Deposita*, **37** (1) 100-116 (2002) [A1]

**Holm, OH**, Berry, RF, 'Structural history of the Arthur Lineament, northwest Tasmania: an analysis of critical outcrops', *Australian Journal of Earth Sciences*, **49** (1) 167-185 (2002) [A1]

Kamenetsky, VS, van Achterbergh, E\*, Ryan, CG\*, Naumov, VB\*, Mernagh, TP\*, **Davidson, P**,

'Extreme chemical heterogeneity of granite-derived hydrothermal fluids: An example from inclusions in a single crystal of miarolitic quartz', *Geology (Boulder)*, **30** (5) 459-462 (2002) [A1]

Kamenetsky, VS, **Davidson, P**, Mernagh, TP\*, Crawford, AJ, Gemmell, JB, Portnyagin, MV\*, Shinjo, R\*, 'Fluid bubbles in melt inclusions and pillow-rim glasses: high-temperature precursors to hydrothermal fluids?', *Chemical Geology*, **183** (3-4) 349-364 (2002) [A1]

**Squire, RJ**, McPhie, J, 'Characteristics and origin of peperite involving coarse-grained host sediment', *Journal of Volcanology and Geothermal Research*, **114** (1-2) 45-61 (2002) [A1]

### Conference Publication

Moore, RL\*, **Masterman, GJ**, 'The corporate discovery history and geology of the Collahuasi district porphyry copper deposits, Chile', *CODES Special Publication 4*, Hobart, Australia, 23-50 (2002) [F1]

Zaw, K, **Limtrakun, P**, Yui, TF\*, Ryan, CG\*, Mernagh, TP\*, 'Mineral Chemistry, Oxygen Isotopes and Fluid/Melt Inclusion Studies Bearing on the Genesis of The Denchai Sapphires, Northern Thailand', *Proceedings*, Bangkok, Thailand, 309-314 (2002) [F1]

# Engineering

## Journal Article

**Hoang, TA**, Nguyen, DT, 'Improving training of radial basis function network for classification of power quality disturbances', *Electronics Letters*, **38** (17) 976-977 (2002) [A1]

**Hoang, TA**, Nguyen, DT, 'Optimal learning for patterns classification in RBF networks', *Electronics Letters*, **38** (20) 1188-1190 (2002) [A1]

**Kelareva, GV**, Negnevitsky, M, 'Multi-Layered Genetic Algorithm for Maintenance Scheduling with Multiple Parameters', *Australian Journal of Intelligent Information Processing Systems*, **7** (3/4) 122-131 (2002) [A1]

## Conference Publication

**Hoang, TA**, Nguyen, DT, 'A Comprehensive Training for Wavelet-Based RBF Classifier for Power Quality Disturbances', *Proceedings of 2002 IEEE Region 10 Conference on Computers, Communications, Control and Power Engineering*, Beijing, China, 1919-1922 (2002) [F1]

**Hoang, TA**, Nguyen, DT, 'Matching Pursuit for the Recognition of Power Quality Disturbances', *Proceedings of the 33rd Power Electronics Specialists Conference*, Cairns, Australia, 1791-1796 (2002) [F1]

**Hoang, TA**, Nguyen, DT, 'Training Radial Basis Function Networks for Wavelet-based Classification of Power Quality Disturbances', *Proceedings of the Fourth IASTED International Conference: Signal and Image Processing*, Kaua'i, Hawaii, USA, 218-223 (2002) [F1]

**Hoang, TA**, Nguyen, DT, 'Wavelet-Based Classification of Power Quality Disturbances using Radial Basis Function Networks', *Proceedings of the IASTED International Conference: Power and Energy Systems*, Marina del Rey, California, USA, 282-287 (2002) [F1]

Karri, V, **Butler, DA**, 'An Intelligent Traction Controller', *CD - Proceedings of the HiPC 2002 Workshop on Soft Computing*, Bangalore, India, 55-61 (2002) [F1]

Karri, V, **Kiatcharoenpol, T**, 'Prediction of Internal Surface Roughness in Drilling using Three Feedforward Neural Networks - A Comparison', *CDRom Proceedings of 9th International Conference on Neural Information Processing*, Singapore, EJ (2002) [F1]

Karri, V, **Cunningham, HJ**, 'Prediction of parameters to avoid vehicle roll over using artificial neural networks', *CDRom - Proceedings of 9th IEEE International Conference on Mechatronics and Machine Vision in Practice*, Chiang Mai, Thailand, 375-380 (2002) [F1]

Karri, V, **Kiatcharoenpol, T**, 'Prediction of Thrust and Torque in Drilling Using Conventional and an Optimised Layer by Layer Neural Network', *Proceedings of the 3rd Asia Pacific Conference on Systems Integrity and Maintenance (Systems Integrity and Maintenance - ACSIM 2002)*, Cairns, Australia, 178-183 (2002) [F1]

Karri, V, **Kiatcharoenpol, T**, 'Radial force and hole oversize prediction in drilling using traditional and neural networks', *Proceedings of the*

*International Conference on Manufacturing Automation: Rapid Response Solutions to Product Development*, Hong Kong, China, 159-167 (2002) [F1]

Karri, V, Palaniswami, M\*, **Kiatcharoenpol, T**, 'Support Vector Machines to Estimate Thrust and Torque in Drilling', *CD - Proceedings of the HiPC 2002 Workshop on Soft Computing*, Bangalore, India, 75-80 (2002) [F1]

Karri, V, **Butler, DA**, 'Using Artificial Neural Networks to Predict Vehicle Acceleration and Yaw Angles', *CDRom Proceedings of 9th International Conference on Neural Information Processing*, Singapore, 5 pages (2002) [F1]

**Kelareva, GV**, Negnevitsky, M, 'Multi-Layer Genetic Algorithm for Maintenance Scheduling in Power Systems', *Proceedings of the Second IAST-ED International Conference: Power and Energy Systems*, Crete, Greece, 32-37 (2002) [F1]

**Ng, SK**, Carter, SJB, Bullen, F, 'Assessing the Environmental Performance of Civil Construction Projects', *CD Proceedings of the National Urban Infrastructure Forum 2002*, Brisbane, Queensland, Australia, 6 pages (2002) [F1]

**Thomas, GA**, Davis, MR, Holloway, DS, Roberts, T\*, 'Extreme Asymmetric Slam Loads on Large High Speed Catamarans', *Proceedings of the 6th Symposium on High Speed Marine Vehicles*, Castello di Baia, Italy, I.15-I.23 (2002) [F1]

**Ng, SK**, Carter, SJB, 'Assessing the Environmental Performance of Civil

Construction Projects: The ABT Railway Project', *CD Proceedings of the Engineering a Sustainable Future Conference*, Hobart, Australia, 8 pages (2002) [F2]

**Whelan, JR**, Davis, MR, Holloway, DS, 'Micro-VOF: An Improved Free Surface Tracking Algorithm for Unsteady Free Surface Flow Problems', Sydney, Australia, 2 pages (2002) [F3]

# Geography and Environmental Studies

## Journal Article

- Battaglia, M, **Mummery, DC**, Smith, A\*, 'Economic analysis of site survey and productivity modelling for the selection of plantation areas', *Forest Ecology and Management*, **162** (2-3) 185-195 (2002) [A1]
- Fricker, HA\*, Allison, I, Craven, M, Hyland, G, Ruddell, A, Young, NW, Coleman, R, **King, MA**, Krebs, K\*, Popov, S\*, 'Redefinition of the Amery Ice Shelf, East Antarctica, grounding zone', *Journal of Geophysical Research*, **107** (B5) EPM6-1 - 6-9 (2002) [A1]
- Hingston, AB, Marsden-Smedley, J\*, Driscoll, DA, Corbett, S\*, Fenton, J\*, Anderson, R, Plowman, C\*, Mowling, FA, Jenkin, MC, Matsui, K\*, **Bonham, KJ**, Ilowski, M\*, McQuillan, PB, Yaxley, BK, Reid, T\*, Storey, D\*, Poole, L\*, **Mallick, SA**, Fitzgerald, N, Kirkpatrick, JB, Febey, J\*, **Harwood, AG**, Michaels, KF, Russell, MJ, Black, PG\*, Emmerson, L, Visoiu, MH, Morgan, J\*, Breen, S\*, Gates, S, **Bantich, MN**, Desmarchelier, J, 'Extent of invasion of Tasmanian native vegetation by the exotic bumblebee *Bombus terrestris* (Apoidea: Apidae)', *Austral Ecology*, **27** (2) 162-172 (2002) [A1]
- Kirkpatrick, JB, Bridle, K, **Lynch, AJJ**, 'Changes in alpine vegetation related to geomorphological processes and climatic change on Hill One, Southern Range, Tasmania, 1989-2000', *Australian Journal of Botany*, **50** (6) 753-759 (2002) [A1]
- Kirkpatrick, JB, Bridle, K, **Wild, AS**, 'Succession after fire in alpine vegetation on Mount Wellington, Tasmania', *Australian Journal of Botany*, **50** (1) 145-154 (2002) [A1]
- McMullan-Fisher, SJM**, May, T\*, Keane, PJ\*, 'The macrofungal community and fire in a Mountain Ash forest in southern Australia', *Fungal Diversity*, **10** 57-76 (2002) [A1]
- Mesibov, R\*, **Bonham, KJ**, Doran, N\*, Meggs, J\*, Munks, SA, Otley, H\*, **Richards, K**, 'Single-species sampling in Tasmania: an inefficient approach to invertebrate conservation?', *Invertebrate Systematics* (16) 655-663 (2002) [A1]
- Mummery, DC**, Battaglia, M, 'Data input quality and resolution effects on regional and local scale *Eucalyptus globulus* productivity predictions in north-east Tasmania', *Ecological Modelling*, **156** (1) 13-25 (2002) [A1]
- Nunez, M, **Kuchinke, CP**, Gies, P\*, 'Using broadband erythemal UV instruments to measure relative irradiance', *Journal of Geophysical Research: Atmosphere*, **107** EJ (2002) [A1]
- Phillips, GV**, Kriwoken, LK, Hay, PR, 'Private property and public interest in fisheries management: the Tasmanian rock lobster fishery', *Marine Policy*, **26** (6) 459-469 (2002) [A1]
- Ritz, DA, **Cromer, L**, Swadling, KM, Nicol, S\*, Osborn, JE, 'Heart rate as a measure of stress in Antarctic krill, *Euphausia superba*', *Journal of the Marine Biological Association of the United Kingdom* (82) 4183-4 (2002) [A1]

## Book

- Kriwoken, LK, Lennox, S\*, **Ellis, C**, *Tasmanian Wildlife Tourism Inventory: Developing an Inventory of Wildlife Viewing Opportunities*, CRC for Sustainable Tourism Pty Ltd, Gold Coast MC, i-v, 1-53 (2002) [B2]

### Chapter in Book

**McPherson, KL**, 'Wattle bark in Van Diemen's Land, 1803-1830', *Australia's Ever-changing Forests V: Proceedings of the Fifth National Conference on Australian Forest History*, Centre for Resource and Environmental Studies, The Australian National University in association with the Australian Forest History Society, J. Dargavel, D. Gaughwin and B. Libbis (ed), Canberra, 132-145 (2002) [C2]

### Thesis Accepted for Higher Degree

**Le Fort, PA**, 'The relationship between woodland remnant size and bird diversity in an urban landscape in southern Tasmania' (2002) [M1]

**Lee, D**, 'Heavy Metals and Stormwater: An Investigation of Hobart, Tasmania, Australia' (2002) [M1]

**McEachern, CM**, 'Sustainability through informed choice: risks and opportunities' (2002) [M1]

**Meyer, S**, 'Water quality on two forested catchments in the Warra LTER site, Tasmania: source of colour and nutrient enrichment' (2002) [M1]

**Sahertian, IH**, 'The Role of Marine Discovery Centres in Supporting Environmental Education. Case Study: Woodbridge Marine Discovery Centre, Tasmania' (2002) [M1]

**Tanusilp, V**, 'Factors affecting the Aquatic Macroinvertebrate (EPT) Fauna at Nam Nao National Park, Thailand' (2002) [M1]

**Thongserm, S**, 'The Comparison of Road Traffic Noise Levels from Prediction Models and Actual Noise Measurement' (2002) [M1]

**Chen, CL**, 'A Comparison of the Natural Resource Management Regimes of Tasmania and Taiwan' (2002) [M3]

**Hingston, AB**, 'Pollination Ecology of *Eucalyptus globulus* subsp. *globulus* and *Eucalyptus nitens* (Myrtaceae)' (2002) [M3]

**Hurd, R**, 'An Investigation of Glaciological and Meteorological Parameters in the Lambert Glacier Basin using High Precision GPS Strategies' (2002) [M3]

**King, MA**, 'The dynamics of the Amery Ice Shelf from a combination of terrestrial and space geodetic data' (2002) [M3]

**Kuchinke, CP**, 'Improved Techniques for Spatial and Temporal Measurement of Ultraviolet Radiation' (2002) [M3]

**Smith, JA**, 'Seed banks, community dynamics and species persistence in 5 Tasmanian temporary wetlands' (2002) [M3]

**Volders, AR**, 'The Political Ecology of International Trade' (2002) [M3]

**Williamson, S**, 'Restructuring the Tasmanian rock lobster fishery: from input controls to individual transferable quotas' (2002) [M3]

**Winkler, CB**, 'The Environment-Structure Relationship in Organisations Managing Protected Areas' (2002) [M3]

### Other Public Output

Hay, PR, **Boyce, PJ**, 'Nicolas Baudin - the bicentenary of the expedition to Van Diemen's Land of an extraordinary French explorer', *40° South: Tasmania & Beyond*, Autoplot, Hobart, 24 (2002) [O2]

# Mathematics and Physics

## IASOS

### Journal Article

**Bi, D**, Budd, WF, Hirst, AC\*, Wu, X, 'Response of the Antarctic circumpolar current transport to global warming in a coupled model', *Geophysical Research Letters*, **29** (24) EJ (2002) [A1]

Bradshaw, CJA, Hindell, MA, Michael, KJ, **Sumner, MD**, 'The optimal spatial scale for the analysis of elephant seal foraging as determined by geo-location in relation to sea surface temperatures', *ICES Journal of Marine Science* (59) 770-781 (2002) [A1]

**Breadmore, MC, Palmer, AS**, Curran, MAJ\*, Macka, M, Avdalovic, N\*, Haddad, PR, 'On-Column Ion-Exchange Preconcentration of Inorganic Anions in Open Tubular Capillary Electrochromatography with Elution Using Transient-Isotachophoretic Gradients. 3. Implementation and Method Development', *Analytical Chemistry*, **74** (9) 2112-2118 (2002) [A1]

Curran, MAJ\*, **Palmer, AS**, van Ommen, TD\*, Morgan, VI\*, **Phillips, K, McMorrow, AJ**, Mayewski, PA\*, 'Post-depositional movement of methanesulphonic acid at Law Dome, Antarctica, and the influence of accumulation rate', *Annals of Glaciology*, **35** 333-339 (2002) [A1]

**Jarman, S**, Elliott, NG\*, Nicol, S\*, McMinn, A, 'Genetic differentiation in the Antarctic coastal krill *Euphasia crystallorophias*', *Heredity*, **88** (2002) 280-287 (2002) [A1]

Johnston, DJ, **Lourey, MJ**, Van Tien, D\*, Luu, TT\*, Xuan, TT\*, 'Water quality and plankton densities in mixed shrimp-mangrove forestry

farming systems in Vietnam', *Aquaculture Research*, **33** (1) 785-798 (2002) [A1]

**McGrath, BL**, Jackson, GD, 'Egg production in the arrow squid *Nototodarus gouldi* (Cephalopoda: Ommastrephidae), fast and furious or slow and steady?', *Marine Biology*, **141** 699-706 (2002) [A1]

**McMorrow, AJ**, Curran, MAJ\*, van Ommen, TD\*, Morgan, VI\*, Allison, I\*, 'Features of meteorological events preserved in a high-resolution Law Dome (East Antarctica) snow pit', *Annals of Glaciology*, **35** 463-470 (2002) [A1]

**Palmer, AS**, Morgan, VI\*, Curran, MAJ\*, van Ommen, TD\*, Mayewski, PA\*, 'Antarctic volcanic flux ratios from Law Dome ice cores', *Annals of Glaciology*, **35** 329-332 (2002) [A1]

**Phillips, HE**, Rintoul, SR\*, 'A Mean Synoptic View of the Subantarctic Front South of Australia', *Journal of Physical Oceanography*, **32** 1536-1553 (2002) [A1]

**Phillips, K**, Nichols, PD\*, Jackson, GD, 'Lipid and fatty acid composition of the mantle and digestive gland of four Southern Ocean squid species: implications for food-web studies', *Antarctic Science*, **14** (3) 212-220 (2002) [A1]

Ryan, KG\*, McMinn, A, Mitchell, KA\*, **Trenerry, LJ**, 'Mycosporine-Like Amino Acids in Antarctic Sea Ice Algae, and Their Response to UVB Radiation', *Verlag der Zeitschrift für Naturforschung*, **57** (2002) 471-477 (2002) [A1]

Souney, JM\*, Mayewski, PA\*, Goodwin, ID\*, Meeker, LD\*, Morgan, VI, Curran, MAJ, van

Ommen, TD, Palmer, AS, 'A 700-year record of atmospheric circulation developed from the Law Dome ice core, East Antarctica', *Journal of Geophysical Research*, **107** (D22) EJ (2002) [A1]

Taylor, F, McMinn, A, 'Late Quaternary diatom assemblages from Prydz Bay, Eastern Antarctica', *Quaternary Research*, **57** (1) 151-161 (2002) [A1]

Trenerry, LJ, McMinn, A, Ryan, KG\*, 'In situ oxygen microelectrode measurements of bottom-ice algal production in McMurdo Sound, Antarctica', *Polar Biology*, **25** (2002) 72-80 (2002) [A1]

Whitehead, JM, McMinn, A, 'Kerguelen Plateau Quaternary-late Pliocene palaeoenvironments: from diatom, silicoflagellate and sedimentological data', *Palaeogeography, Palaeoclimatology, Palaeoecology*, **186** (2002) 335-368 (2002) [A1]

Widolf-Kalabsa, HE, 'Animal Rights and the Antarctic Treaty System', *Human Ecology Review*, **9** (2) 59-67 (2002) [A1]

## Chapter in Book

Trenerry, LJ, McMinn, A, Ryan, KG\*, 'In situ oxygen microelectrode measurements of bottom-ice algal production in McMurdo Sound, Antarctica', *Ecological Studies in the Antarctic sea ice zone*, Springer-Verlag, WE Arntz, A Clarke (ed), Berlin, 185-193 (2002) [C1]

# Mathematics and Physics

## Mathematics

### **Journal Article**

Kelarev, AV, **Quinn, SJ**, 'Directed Graphs and Combinatorial Properties of Semigroups', *Journal of Algebra*, 251 16-26 (2002) [A1]

# Mathematics and Physics

## Physics

### Journal Article

Dodson, R, McCulloch, PM, **Lewis, DR**, 'High Time Resolution Observations of the January 2000 Glitch in the Vela Pulsar', *The Astrophysical Journal*, **564** (2) L85-L88 (2002) [A1]

Greenhill, LJ\*, Ellingsen, SP, Norris, RP\*, McGregor, PJ\*, Gough, RG\*, Sinclair, MW\*, **Rayner, DP, Phillips, CJ**, Herrnstein, JR\*, Moran, JM\*, 'A Search for H<sub>2</sub>O Maser Emission in Southern Active Galactic Nuclei and Star-Forming Galaxies: Discovery of a Maser in the Edge-On Galaxy IRAS F01063-8034', *The Astrophysical Journal*, **565** (2) 836-848 (2002) [A1]

### Conference Publication

**Legg, GP**, 'A tensor formulation of the Dirac equation', *Proceedings of the Australian Institute of Physics 15th Biennial Congress 2002*, Sydney - Australia, 162-164 (2002) [F2]

# Plant Science

## Journal Article

**Barbour, RC**, Potts, BM, Vaillancourt, RE, Tibbits, WN, Wiltshire, RJE, 'Gene flow between introduced and native *Eucalyptus* species', *New Forests*, **23** (Bimonthly) 177-191 (2002) [A1]

Bolch, CJS, **Reynolds, MJ**, 'Species resolution and global distribution of microreticulate dinoflagellate cysts', *Journal of Plankton Research*, **24** (6) 565-578 (2002) [A1]

**Close, DC**, Beadle, CL\*, Hovenden, MJ, 'Interactive effects of nitrogen and irradiance on sustained xanthophyll cycle engagement in *Eucalyptus nitens* leaves during winter', *Oecologia*, **134** 32-36 (2002) [A1]

**Jones, TH**, Potts, BM, Vaillancourt, RE, Davies, NW, 'Genetic resistance of *Eucalyptus globulus* to autumn gum moth defoliation and the role of cuticular waxes', *Canadian Journal of Forest Research*, **32** 1961-1969 (2002) [A1]

**Lopez, GA**, Potts, BM, Dutkowski, GV, Apiolaza, LA, Gelid, PE\*, 'Genetic variation and inter-trait correlations in *Eucalyptus globulus* base population trials in Argentina', *Forest Genetics*, **9** 223-237 (2002) [A1]

**O'Reilly, JM**, McArthur, C, Potts, BM, 'Genetic variation in resistance of *Eucalyptus globulus* to marsupial browsers', *Oecologia* (130) 289-296 (2002) [A1]

Steane, DA, Nicolle, D\*, **McKinnon, G**, Vaillancourt, RE, Potts, BM, 'Higher-level relationships among the eucalypts are resolved by ITS-sequence data', *Australian Systematic Botany*, **15** 49-62 (2002) [A1]

**Taylor, SA**, Hofer, JMI\*, Murfet, IC, Sollinger, JD\*, Singer, SR\*, Knox, MR\*, Ellis, THN\*, 'PROLIFERATING INFLORESCENCE MERISTEM, a MADS-box gene that regulates floral meristem identity in pea', *Plant Physiology*, **129** 1150-1159 (2002) [A1]

## Thesis Accepted for Higher Degree

**Sutrisno, Sutrisno**, 'Feasibility of seed cryopreservation for genetic conservation of Tasmanian native plant species' (2002) [M1]

**Lopez, GA**, 'Quantitative genetics and breeding of *Eucalyptus globulus*' (2002) [M3]

**Vucica, Y**, 'Insertional mutants of *Chlamydomonas* affecting the central pair apparatus of the flagellum' (2002) [M3]

**Yaxley, JL**, 'Leaf and seed development in pea' (2002) [M3]

**Hallegraeff, GM**, 'Taxonomy and ecology of Australian marine microalgae with emphasis on harmful algal blooms and by ships' ballast water' (2002) [M4]

# Psychology

## Journal Article

**Brain, KL**, Haines, J, Williams, CL, 'The Psychophysiology of Repetitive Self-Mutilation', *Archives of Suicide Research*, **6** (3) 199-210 (2002) [A1]

**Davis, M**, Montgomery, IM, Wilson, GV, 'Worry and heart rate variables: autonomic rigidity under challenge', *Journal of Anxiety Disorders*, **16** 639-659 (2002) [A1]

Fry, CL\*, **Bruno, RB**, 'Recent trends in benzodiazepine use by injecting drug users in Victoria and Tasmania', *Drug and Alcohol Review*, **21** 363-367 (2002) [A1]

Haines, J, Williams, CL, Sale, IM, **Glading, JA**, Davidson, JA, 'The Death of a Leader: Homicide as a Means of Group Disengagement', *Cultic Studies Review*, **1** (2) EJ (2002) [A1]

Haines, J, Williams, CL, **Carson, JM**, 'Workplace Phobia: Psychological and Psychophysiological Mechanisms', *International Journal of Stress Management*, **9** (3) 129-145 (2002) [A1]

**Mahoney, TD**, Ball, PJ, 'Common Respiratory Tract Infections as Psychological Entities: A Review of the Mood and Performance Effects of Being Ill', *Australian Psychologist*, **37** (2) 86-94 (2002) [A1]

**Martin, JE, Matthews, AJ**, Martin, F, Kirkby, KC, Alexander, JRM, Daniels, BA, 'Effects of lorazepam and oxazepam on perceptual and procedural memory functions', *Psychopharmacology*, **164** (3) 262-267 (2002) [A1]

**Matthews, AJ**, Kirkby, KC, Martin, F, 'The effects of single-dose lorazepam on memory and

behavioural learning', *Journal of Psychopharmacology*, **16** (4) 343-352 (2002) [A1]

**Van Niekerk, LM**, Martin, F, 'The Impact of the Nurse-Physician Professional Relationship on Nurses' Experience of Ethical Dilemmas in Effective Pain Management', *Journal of Professional Nursing*, **18** (5) 276-288 (2002) [A1]

## Conference Publication

Thompson, T, **Crosswell, HM, Bransden, SL**, Dinnel, D\*, 'Links Between Self-Worth Protection, Claimed and Behavioural Self-Handicapping', *Collected Papers of the Second Biennial Self-concept Enhancement and Learning Facilitation (SELF) Research Centre International Conference*, Sydney, NSW, 1-9 (2002) [F1]

**Wood, C**, Davidson, JA, 'Qualitative Issues in Parent-Child Relationships Identified in Parent Effectiveness Training', *Relationships: At home and abroad*, Deakin University, Melbourne, Victoria, 36-48 (2002) [F1]

**Cox, EA**, Haines, J, Williams, CL, 'Self-mutilation: Temporal stability of the psychophysiological tension reduction response', *International Journal of Psychophysiology*, Montreal, Quebec, Canada, 90 (2002) [F3]

**Rooke, NJ**, Williams, CL, Haines, J, 'Psychological and psychophysiological responses to self-poisoning', *International Journal of Psychophysiology*, Montreal, Quebec, Canada, 154 (2002) [F3]

**Wood, C**, Davidson, JA, 'Emotional skills and stress: Parents' stress reduction following PET training in empathic listening, non-antagonistic assertiveness and family conflict resolution',

*Australian Journal of Psychology*, Gold Coast, Queensland, 64 (2002) [F3]

### Thesis Accepted for Higher Degree

**Bickel, RC**, 'Stress, coping and mental health: Applications to adolescents in custody' (2002) [M2]

**Lan, PG**, 'The efficacy of wilderness programs with 'at risk' adolescents' (2002) [M2]

**Broadbent, C**, 'Impact of change on University academics' (2002) [M3]

**Driscoll, C**, 'A comparison of first time and repeat intentional self-poisoning patients' (2002) [M3]

**Kirby, ML**, 'The development of phonological and orthographic processing strategies in readers with a specific reading disability compared to normally achieving readers' (2002) [M3]

**O'Donnell, GE**, 'The psychological impact of motor vehicle accidents' (2002) [M3]

**Ryan, JF**, 'Studies in visual information processing and eye movement in dyslexia' (2002) [M3]

**Sim, TWT**, 'A unifying theory of phonological, lexical and semantic processing in bilinguals and trilinguals' (2002) [M3]

### Other Public Output

**Clear, SM**, 'Research into car accidents', *The Mercury*, Davies Bros. Limited, Hobart, Tasmania, 10/9/02 (2002) [O1]

**Clear, SM**, 'Research into car accidents', *News*, ABC 7ZR, Hobart, 9/9/2002 (2002) [O3]

**Clear, SM**, 'Research into car accidents', *Radio*, TTT, Hobart, 10/9/2002 (2002) [O3]

**Clear, SM**, 'Research into car accidents', *7LA*, Radio, Launceston, 10/9/2002 (2002) [O3]

**Josephs, AL**, 'Anxiety in children when moving house', *7ZR Drive Time*, ABC, Hobart, 27/8/02 (2002) [O3]

# Tasmanian Aquaculture and Fisheries Institute

## Aquaculture

### Journal Article

Bolch, CJS, **Reynolds, MJ**, 'Species resolution and global distribution of microreticulate dinoflagellate cysts', *Journal of Plankton Research*, **24** (6) 565-578 (2002) [A1]

**Bridle, AR, Crosbie, PBB, Morrison, RN, Kwang, J\***, Nowak, BF, 'The immuno-adjuvant effect of carp interleukin-1 beta on the humoral immune response of barramundi, *Lates calcarifer* (Bloch)', *Journal of Fish Diseases*, **25** (1) 429-432 (2002) [A1]

**Cleary, JJ**, Battaglione, SC, Pankhurst, NW, 'Capture and handling stress affects the endocrine and ovulatory response to exogenous hormone treatment in snapper, *Pagrus auratus* (Bloch & Schneider)', *Aquaculture Research*, **33** (11) 829-838 (2002) [A1]

**Crosbie, PBB**, Nowak, BF, 'Production of polyclonal antisera against barramundi (*Lates calcarifer* Bloch) serum immunoglobulin derived from affinity columns containing mannan-binding protein or staphylococcal protein A', *Aquaculture*, **211** (1) 49-63 (2002) [A1]

**Daglish, RW**, Nowak, BF, 'Rainbow Trout Gills Are a Sensitive Biomarker of Short-Term Exposure to Waterborne Copper', *Archives of Environmental Contamination and Toxicology*, **43** (1) 98-102 (2002) [A1]

**Douglas-Helders, GM**, Dawson, DR, Carson, J, Nowak, BF, 'Wild fish are not a significant reservoir for *Neoparamoeba pemaquidensis* (Page, 1987)', *Journal of Fish Diseases*, **25** (1) 569-574 (2002) [A1]

**Engin, K**, Carter, CG, 'Ingredient apparent digestibility coefficients for the Australian short-finned eel (*Anguilla australis australis*, Richardson)', *Animal Science*, **75** (1) 401-413 (2002) [A1]

**Fielder, DS**, Bardsley, WJ\*, Allan, GL\*, Pankhurst, PM, 'Effect of photoperiod on growth and survival of snapper *Pagrus auratus* larvae', *Aquaculture*, **211** (1) 135-150 (2002) [A1]

Gowland, FC\*, Moltschaniwskyj, NA, **Steer, MA**, 'Description and quantification of developmental abnormalities in a natural *Sepioteuthis australis* spawning population (Mollusca: Cephalopoda)', *Marine Ecology Progress Series*, **243** (1) 133-141 (2002) [A1]

Johnston, DJ, **Lourey, MJ**, Van Tien, D\*, Luu, TT\*, Xuan, TT\*, 'Water quality and plankton densities in mixed shrimp-mangrove forestry farming systems in Vietnam', *Aquaculture Research*, **33** (1) 785-798 (2002) [A1]

**Morrison, RN**, Hayball, JD\*, Cook, MT\*, Nowak, BF, 'Anti-immunoglobulin binding and activation of snapper (*Pagrus auratus*) leucocytes', *Developmental & Comparative Immunology*, **26** (1) 247-255 (2002) [A1]

**Morrison, RN**, Nowak, BF, 'The Antibody Response of Teleost Fish', *Seminars in Avian and Exotic Pet Medicine*, **11** (1) 46-54 (2002) [A1]

Munday, BL, **Stewart, NJ**, Sodergren, A\*, 'Accumulation of persistent organic pollutants in Tasmanian platypus (*Ornithorhynchus anatinus*)', *Environmental Pollution*, **120** 233-237 (2002) [A1]

Powell, MD, Nowak, BF, Adams, MB, 'Cardiac morphology in relation to amoebic gill disease history in Atlantic salmon, *Salmo salar* L', *Journal of Fish Diseases*, **25** (1) 209-215 (2002) [A1]

Smith, GG, Ritar, AJ, Thompson, PW, Dunstan, GA\*, Brown, MR\*, 'The effect of embryo incubation temperature on indicators of larval viability in Stage 1 phyllosoma of the spiny lobster, *Jasus edwardsii*', *Aquaculture*, **209** (1-4) 157-167 (2002) [A1]

Munday, BL, Stewart, NJ, Sodergren, A\*, 'Variations in residues of persistent organic pollutants in a platypus (*Ornithorhynchus anatinus*) at consecutive samplings', *Australian Veterinary Journal*, **80** 299 (2002) [A4]

### Conference Publication

Adams, MB, Ellard, K\*, Nowak, BF, 'Histopathology of amoebic gill disease (AGD) in Atlantic salmon (*Salmo salar* L.)', *Program and Abstracts for the Annual Scientific Meeting of the Australian Society for Parasitology Inc.*, Hadley Hotel, Hobart, Tasmania, 12 (2002) [F3]

Adams, MB, Nowak, BF, 'Pathology of amoebic gill disease (AGD) in farmed Atlantic salmon *Salmo salar* L', *Aquafin CRC Conference Abstracts*, Wrest Point Casino, Hobart, Tasmania, 14 (2002) [F3]

Adams, MB, Ellard, K\*, Nowak, BF, 'Sequential pathology and gross lesion histopathology of amoebic gill disease (AGD) in farmed Atlantic salmon *Salmo salar* L', *The Second Scientific Conference of the Atlantic Salmon Aquaculture Subprogram Handbook*, Hobart, Tasmania, 14 (2002) [F3]

Adams, MB, Ellard, K, Nowak, BF, 'Sequential pathology and gross lesion histopathology of amoebic gill disease (AGD) in farmed Atlantic salmon *Salmo salar* L', *Atlantic Salmon Aquaculture Subprogram Handbook*, Hobart, 14-17 (2002) [F3]

Bagley, CA, Douglas-Helders, GM, Nowak, BF, 'Risk factors in amoebic gill disease', *Aquafin CRC Conference Abstracts*, Wrest Point Casino, Hobart, Tasmania, 19 (2002) [F3]

Bagley, CA, Hayball, J\*, Lyons, B\*, Nowak, BF, Crosbie, PBB, 'Use of flow cytometry to screen chemotherapeutants with potential to control of *Neoparamoeba pemaquidensis* infection in Atlantic salmon, *Salmo salar*', *Australasian Flow Cytometry Group 25th Annual Scientific Meeting Programme and Abstract Booklet*, Hobart, Tasmania (2002) [F3]

Battaglione, SC, Bransden, MP, Shaw, GW, 'New developments in striped trumpeter *Latris lineata* culture', *Aquafin CRC Conference Abstract*, Wrest Point Convention Centre, Hobart, Australia, 22-22 (2002) [F3]

Bridle, AR, Butler, R, Nowak, BF, 'Cytokines as immunostimulants in farmed fish and their role in the pathogenesis of amoebic gill disease in salmonids', *Aquafin CRC Conference Abstracts*, Wrest Point Casino, Hobart, Tasmania, 15 (2002) [F3]

Carter, CG, Bransden, MP, Lewis, T, Nichols, PD\*, 'Fish oil replacement in feeds for Tasmanian grown Atlantic salmon, *Salmo salar*', *Feeding for Quality: 10th International Symposium on Nutrition and Feeding in Fish*, Rhodes, Greece, 34 (2002) [F3]

Crosbie, PBB, Carson, J, Nowak, BF, 'Detection of *Neoparamoeba pemaquidensis* in marine sediments in Tasmania', *Atlantic Salmon Aquaculture Subprogram Handbook*, Hobart, 25-26 (2002) [F3]

Crosbie, PBB, Carson, J, Nowak, BF, 'Detection of *Neoparamoeba pemaquidensis* in marine sediments in Tasmania', *Aquafin CRC Conference Abstracts*, Wrest Point Casino, Hobart, Tasmania, 17 (2002) [F3]

Crosbie, PBB, Carson, J, Nowak, BF, 'Detection of *Neoparamoeba pemaquidensis* in marine sediments in Tasmania', *The Second Scientific*

*Conference of the Atlantic Salmon Aquaculture Subprogram Handbook*, Hobart, Tasmania, 25 (2002) [F3]

**Crosbie, PBB**, Carson, J, Nowak, BF, 'Detection of *Neioparamoeba pemaquidensis* in marine sediments in Tasmania', *Program and Abstracts for the Annual Scientific Meeting of the Australian Society for Parasitology Inc.*, Hadley Hotel, Hobart, Tasmania, 12 (2002) [F3]

**Daglish, RW**, Nowak, BF, Lewis, TW, 'CU/N rations in the gills of rainbow trout provide evidence of copper exposure under conditions of mixed metal exposure', *Interact 2002 Program and Abstracts*, Sydney, Australia, 184 (2002) [F3]

**Douglas-Helders, GM**, 'Epidemiology in the future', *Aquafin CRC Conference Abstracts*, Wrest Point Casino, Hobart, Tasmania, 18 (2002) [F3]

**Gross, KA**, Butler, R, Nowak, BF, 'Host-pathogen interactions - the immune response of AGD infected Atlantic salmon (*Salmo salar*)', *Aquafin CRC Conference Abstracts*, Wrest Point Casino, Hobart, Tasmania, 16 (2002) [F3]

Nowak, BF, Powell, MD, **Douglas, GM**, **Adams, MB**, **Crosbie, PBB**, Carson, J, 'Amoebic gill disease in cultured salmonids in Australia', *Proceedings 4th International Symposium on Aquatic Animal Health*, New Orleans, Louisiana USA, 160 (2002) [F3]

Nowak, BF, **Douglas-Helders, GM**, **Gross, KA**, **Bridle, AR**, **Morrison, RN**, **Crosbie, PBB**, **Bagley, CA**, **Adams, MB**, Butler, R, Carson, J, 'Amoebic Gill Disease research highlights', *Atlantic Salmon Aquaculture Subprogram Handbook*, Hobart, 50-52 (2002) [F3]

Powell, MD, **Harris, JO**, **Leef, MJ**, **Roberts, SD**, Attard, M, Callahan, W\*, McWilliam, H\*, Toop, T\*, Nowak, BF, 'Insights into the pathophysiology and treatment of amoebic gill disease in Atlantic salmon', *Proceedings 4th International Symposium on Aquatic Animal Health*, New Orleans, Louisiana USA, 167 (2002) [F3]

**Sajjadi, M**, Carter, CG, 'Effect of phytate and phytase on Atlantic salmon performance', *Aquafest Australia 2002, Conference Handbook*, Hobart, Tasmania, 81 (2002) [F3]

**Trotter, AJ**, Pankhurst, PM, Battaglione, SC, 'Interval and Morphology of Initial Swim Bladder Inflation in Striped Trumpeter (*Latris Lineata*) Larvae', *Conference Abstracts of 26th Annual Larval Fish Conference*, Bergen, Norway, 107 (2002) [F3]

**Ward, LR**, Carter, CG, Crear, BJ, 'Feed Development Studies in Southern Rock Lobster *J. edwardsii*', *Aquafest Australia 2002 - Conference Handbook*, Hobart, Australia, 92 (2002) [F3]

**Wardley, T**, Purser, GJ, Forteath, GNR, 'Changing the colour of seahorses *Hippocampus abdominalis* to better suit markets', *Aquafest Australia 2002, Conference Handbook*, Hobart, Tasmania, 93 (2002) [F3]

**Chen, WM**, Purser, GJ, Blyth, PJ\*, 'A waste pellet monitoring system for detection of feeding rhythms in fish: continuously quantifying actual feed intake without disturbance', *Proceeding of International Commemorative Symposium*, Tokyo, Japan, 943-946 (2002) [F4]

### Contract Report, Consultant's Report

Carter, CG, **Hauler, RC**, Foster, C\*, *Aquaculture feed development for Atlantic Salmon Salmo salar*, Fisheries Research and Development Corporation, 1 (2002) [I1]

### Thesis Accepted for Higher Degree

**Clark, GA**, 'Efficacy and side effects of freshwater bathing as a treatment for amoebic gill disease: implications of water chemistry and bath duration' (2002) [M1]

**Cobcroft, JM**, 'Aspects of the morphological development and feeding performance of larval striped trumpeter (*Latris lineata*) in culture' (2002) [M3]

# Tasmanian Aquaculture and Fisheries Institute

## Fish Health Unit

### Journal Article

**Douglas-Helders, GM**, Dawson, DR, Carson, J, Nowak, BF, 'Wild fish are not a significant reservoir for *Neoparamoeba pemaquidensis* (Page, 1987)', *Journal of Fish Diseases*, 25 (1) 569-574 (2002) [A1]

### Conference Publication

**Adams, MB**, Ellard, K, Nowak, BF, 'Sequential pathology and gross lesion histopathology of amoebic gill disease (AGD) in farmed Atlantic salmon *Salmo salar* L', *Atlantic Salmon Aquaculture Subprogram Handbook*, Hobart, 14-17 (2002) [F3]

**Crosbie, PBB**, Carson, J, Nowak, BF, 'Detection of *Neoparamoeba pemaquidensis* in marine sediments in Tasmania', *Atlantic Salmon Aquaculture Subprogram Handbook*, Hobart, 25-26 (2002) [F3]

**Crosbie, PBB**, Carson, J, Nowak, BF, 'Detection of *Neoparamoeba pemaquidensis* in marine sediments in Tasmania', *Aquafin CRC Conference Abstracts*, Wrest Point Casino, Hobart, Tasmania, 17 (2002) [F3]

**Crosbie, PBB**, Carson, J, Nowak, BF, 'Detection of *Neoparamoeba pemaquidensis* in marine sediments in Tasmania', *The Second Scientific Conference of the Atlantic Salmon Aquaculture Subprogram Handbook*, Hobart, Tasmania, 25 (2002) [F3]

**Crosbie, PBB**, Carson, J, Nowak, BF, 'Detection of *Neoparamoeba pemaquidensis* in marine sediments in Tasmania', *Program and Abstracts for the Annual Scientific Meeting of the Australian Society for Parasitology Inc.*, Hadley Hotel, Hobart, Tasmania, 12 (2002) [F3]

Nowak, BF, Powell, MD, **Douglas, GM**, **Adams, MB**, **Crosbie, PBB**, Carson, J, 'Amoebic gill disease in cultured salmonids in Australia', *Proceedings 4th International Symposium on Aquatic Animal Health*, New Orleans, Louisiana USA, 160 (2002) [F3]

Nowak, BF, **Douglas-Helders, GM**, **Gross, KA**, **Bridle, AR**, **Morrison, RN**, **Crosbie, PBB**, **Bagley, CA**, **Adams, MB**, Butler, R, Carson, J, 'Amoebic Gill Disease research highlights', *Atlantic Salmon Aquaculture Subprogram Handbook*, Hobart, 50-52 (2002) [F3]

# Tasmanian Aquaculture and Fisheries Institute

## Marine Research Laboratory

### Journal Article

**Cleary, JJ**, Battaglione, SC, Pankhurst, NW, 'Capture and handling stress affects the endocrine and ovulatory response to exogenous hormone treatment in snapper, *Pagrus auratus* (Bloch & Schneider)', *Aquaculture Research*, **33** (11) 829-838 (2002) [A1]

**Field, I**, Bradshaw, CJA, McMahon, CR\*, Harrington, J, Burton, HR\*, 'Effects of age size and condition of elephant seals (*Mirounga leonina*) on their intravenous anaesthesia with tiletamine and zolazepam', *Veterinary Record* (151) 235-240 (2002) [A1]

**Nelson, MM**, Mooney, BD\*, Nichols, PD\*, Phleger, CF\*, **Smith, GG**, Hart, PR, Ritar, AJ, 'The Effect of Diet on the Biochemical Composition of Juvenile *Artemia*: Potential Formulations for Rock Lobster Aquaculture', *Journal of the World Aquaculture Society*, **33** (2) 146-157 (2002) [A1]

**Smith, GG**, Ritar, AJ, Phleger, CF\*, **Nelson, MM**, Mooney, B\*, Nichols, PD\*, Hart, PR, 'Changes in gut content and composition of juvenile *Artemia* after oil enrichment and during starvation', *Aquaculture*, **208** (1-2) 137-158 (2002) [A1]

**Smith, GG**, Ritar, AJ, Thompson, PW, Dunstan, GA\*, Brown, MR\*, 'The effect of embryo incubation temperature on indicators of larval viability in Stage 1 phyllosoma of the spiny lobster, *Jasus edwardsii*', *Aquaculture*, **209** (1-4) 157-167 (2002) [A1]

**Bermudes, MFM**, 'Latest on culture conditions for the propagation of the southern rock lob-

ster', *Austasia Aquaculture*, **16** (5) 56-57 (2002) [A3]

**Bermudes, MFM**, Ritar, AJ, 'The ups and downs of phyllosoma culture', *Fishing Today*, **15** (4) 16-18 (2002) [A3]

**Grubert, MA**, Ritar, AJ, 'Abalone broodstock conditioning system at TAFI MRL', *Austasia Aquaculture*, **16** (3) 29-36 (2002) [A3]

### Conference Publication

**Grubert, MA**, Ritar, AJ, 'Estimation of the biological zero point of blacklip (*Haliotis rubra*) and greenlip (*H. laevigata*) abalone', *Proceedings of the 9th Annual Abalone Aquaculture Workshop*, Queenscliff, Victoria, 63-75 (2002) [F2]

Ritar, AJ, **Grubert, MA**, 'Conditioning of wild-caught blacklip and greenlip abalone broodstock', *Proceedings of the 9th Annual Abalone Aquaculture Workshop*, Queenscliff, Victoria, 76-83 (2002) [F2]

Ritar, AJ, **Smith, GG**, 'Propagation of rock lobsters / Larval quality', *Proceedings of the Fourth Annual Meeting of the Rock Lobster Enhancement and Aquaculture Subprogram Workshop*, Cairns, Australia, 50-54 (2002) [F2]

Battaglione, SC, Bransden, MP, **Shaw, GW**, 'New developments in striped trumpeter *Latris lineata* culture', *Aquafin CRC Conference Abstract*, Wrest Point Convention Centre, Hobart, Australia, 22-22 (2002) [F3]

**Lewis, TT**, Nichols, PD\*, Battaglione, SC, Morehead, DT, McMeekin, TA, 'Polyunsaturated

fatty acids from bacteria and thraustochytrids: production and use to enrich rotifers and fish larvae', *Conference Abstracts 26th Annual Larval Fish Conference*, Bergen, Norway, 74 (2002) [F3]

Ritar, AJ, **Smith, GG**, 'Larval Quality Could Affect the Success of Rearing Southern Rock Lobster *Jasus edwardsii*', *Aquafest Australia 2002 - Conference Handbook*, Hobart, Australia, 75 (2002) [F3]

**Trotter, AJ**, Pankhurst, PM, Battaglione, SC, 'Interval and Morphology of Initial Swim Bladder Inflation in Striped Trumpeter (*Latris Lineata*) Larvae', *Conference Abstracts of 26th Annual Larval Fish Conference*, Bergen, Norway, 107 (2002) [F3]

**Ward, LR**, Carter, CG, Crear, BJ, 'Feed Development Studies in Southern Rock Lobster *J. edwardsii*', *Aquafest Australia 2002 - Conference Handbook*, Hobart, Australia, 92 (2002) [F3]

### Thesis Accepted for Higher Degree

**Bermudes, MFM**, 'Environmental physiology of cultured early-stage southern rock lobster (*Jasus edwardsii* Hutton, 1875) larvae' (2002) [M3]

**Cobcroft, JM**, 'Aspects of the morphological development and feeding performance of larval striped trumpeter (*Latris lineata*) in culture' (2002) [M3]

**Ziegler, PE**, 'Catchability of the southern rock lobster (*Jasus edwardsii*)' (2002) [M3]

### Other Public Output

**Ziegler, PE**, 'Seasonal variation in rock lobster catchability', *Fishing Today*, Turtle Press Pty Ltd, Rosny, Tasmania, 15, 4 (2002) [O2]

# Zoology

## Journal Article

Atkins, N, Jones, SM, **Edwards, AH**, 'Fecal Testosterone Concentrations May Not Be Useful for Monitoring Reproductive Status in Male Blue-Tongued Lizards (*Tiliqua nigrolutea*: Scincidae)', *Journal of Herpetology*, **36** (1) 106-109 (2002) [A1]

**Beaumont, KL**, Nash, GV\*, Davidson, AT\*, 'Ultrastructure, morphology and flux of micro-zooplankton faecal pellets in an east Antarctic fjord', *Marine Ecology - Progress Series* (245) 133-148 (2002) [A1]

Bradshaw, CJA, Hindell, MA, Michael, KJ, **Sumner, MD**, 'The optimal spatial scale for the analysis of elephant seal foraging as determined by geo-location in relation to sea surface temperatures', *ICES Journal of Marine Science* (59) 770-781 (2002) [A1]

**Bulman, CM**, He, X\*, Koslow, JA\*, 'Trophic ecology of the mid-slope demersal fish community off southern Tasmania, Australia', *Marine and Freshwater Research* (53) 59-72 (2002) [A1]

Burton, H\*, **van den Hoff, J**, 'Humans and the Southern Elephant Seal *Mirounga leonina*', *Australian Mammalogy* (24) 127-139 (2002) [A1]

Chapple, DG, **McCoull, CJ**, Swain, R, 'Changes in Reproductive Investment following Caudal Autotomy in Viviparous Skinks (*Niveoscincus metallicus*): Lipid Depletion or Energetic Diversion?', *Journal of Herpetology*, **36** (3) 480-486 (2002) [A1]

Conod, N, Bartlett, JP\*, **Evans, BS**, Elliott, NG\*, 'Comparison of mitochondrial and nuclear DNA

analyses of population structure in blacklip abalone *Haliotis rubra* Leach', *Marine and Freshwater Research*, **53** (4) 711-718 (2002) [A1]

**Edwards, A**, Jones, SM, Davies, NW, 'A possible alternative to 17 $\beta$ -estradiol in a viviparous lizard, *Tiliqua nigrolutea*', *General and Comparative Endocrinology* (129) 114-121 (2002) [A1]

**Edwards, A**, Jones, SM, Wapstra, E, 'Multiennial reproduction in females of a viviparous, temperate-zone skink, *Tiliqua nigrolutea*', *Herpetologica*, **58** (4) 407-414 (2002) [A1]

**Evans, K**, Hindell, MA, Robertson, K\*, Lockyear, C\*, Rice, D\*, 'Factors affecting the precision of age determination of sperm whales (*Physeter macrocephalus*)', *Journal of Cetacean Research and Management*, **4** (2) 1-9 (2002) [A1]

**Evans, K**, Morrice, MG, Hindell, MA, Thiele, D\*, 'Three mass strandings of sperm whales (*Physeter macrocephalus*) in southern Australian waters', *Marine Mammal Science*, **18** (3) 622-643 (2002) [A1]

**Field, I**, Bradshaw, CJA, McMahon, CR\*, Harrington, J, Burton, HR\*, 'Effects of age size and condition of elephant seals (*Mirounga leonina*) on their intravenous anaesthesia with tiletamine and zolazepam', *Veterinary Record* (151) 235-240 (2002) [A1]

**Gartrell, BD**, 'Assessment of the reproductive state in male swift parrots (*Lathamus discolor*) by testicular aspiration and cytology', *Journal of Avian Medicine and Surgery*, **16** (3) 211-217 (2002) [A1]

**Gartrell, BD**, Girling, JE, Edwards, A\*, Jones, SM, 'Comparison of Noninvasive Methods for the Evaluation of Female Reproductive Condition in a Large Viviparous Lizard, *Tiliqua nigrolutea*', *Zoo Biology* (21) 253-268 (2002) [A1]

**Hansen, B**, Richardson, AMM, 'Geographic ranges, sympatry and the influence of environmental factors on the distribution of species of an endemic Tasmanian freshwater crayfish', *Invertebrate Systematics* (16) 621-629 (2002) [A1]

Hingston, AB, Marsden-Smedley, J\*, Driscoll, DA, Corbett, S\*, Fenton, J\*, Anderson, R, Plowman, C\*, Mowling, FA, Jenkin, MC, Matsui, K\*, **Bonham, KJ**, Iłowski, M\*, McQuillan, PB, Yaxley, BK, Reid, T\*, Storey, D\*, Poole, L\*, **Mallick, SA**, Fitzgerald, N, Kirkpatrick, JB, Febey, J\*, **Harwood, AG**, Michaels, KF, Russell, MJ, Black, PG\*, Emmerson, L, Visoiu, MH, Morgan, J\*, Breen, S\*, Gates, S, **Bantich, MN**, Desmarchelier, J, 'Extent of invasion of Tasmanian native vegetation by the exotic bumblebee *Bombus terrestris* (Apoidea: Apidae)', *Austral Ecology*, 27 (2) 162-172 (2002) [A1]

Jarman, SN\*, Gales, NJ\*, **Tierney, M**, Gill, PC\*, Elliott, NG\*, 'A DNA-based method for identification of krill species and its application to analysing the diet of marine vertebrate predators', *Molecular Ecology* (11) 2679-2690 (2002) [A1]

**Lea, MA**, Cherel, Y\*, Guinet, C\*, Nichols, PD\*, 'Antarctic fur seals foraging in the Polar Frontal Zone: inter-annual shifts in diet as shown from fecal and fatty acid analyses', *Marine Ecology Progress Series* (245) 281-297 (2002) [A1]

**Lea, MA**, Bonadonna, F\*, Hindell, MA, Guinet, C\*, Goldsworthy, SD\*, 'Drinking behaviour and water turnover rates of Antarctic fur seal pups: implications for the estimation of milk intake by isotopic dilution', *Comparative Biochemistry and Physiology A - Molecular and Integrative Physiology* (132) 321-331 (2002) [A1]

**Lea, MA**, Nichols, PD, Wilson, G\*, 'Fatty acid composition of lipid-rich myctophids and mackerel icefish (*Champscephalus gunnari*) - Southern Ocean food-web implications', *Polar Biology* (25) 843-854 (2002) [A1]

**Lea, MA**, Hindell, MA, Guinet, C\*, Goldsworthy, SD\*, 'Variability in the diving activity of Antarctic fur seals, *Arctocephalus gazella*, at Iles Kerguelen', *Polar Biology* (25) 269-279 (2002) [A1]

**Melville, J**, 'Competition and character displacement in two species of scincid lizards', *Ecology Letters* (5) 386-393 (2002) [A1]

Mesibov, R\*, **Bonham, KJ**, Doran, N\*, Meggs, J\*, Munks, SA, Otle, H\*, **Richards, K**, 'Single-species sampling in Tasmania: an inefficient approach to invertebrate conservation?', *Invertebrate Systematics* (16) 655-663 (2002) [A1]

**Metillo, EB**, Ritz, DA, 'Laminarinase activity in three co-occurring mysids (Crustacea: Mysidacea) from southeastern Tasmania, Australia', *The Philippine Scientist* (38) 82-101 (2002) [A1]

**Nelson, MM**, Cox, SL\*, Ritz, DA, 'Function of mouthparts in feeding behavior of Phyllosoma larvae of the Packhorse Lobster, *Jasus verreauxi* (Decapoda: Palinuridae)', *Journal of Crustacean Biology*, 22 (3) 595-600 (2002) [A1]

**Nelson, MM**, Mooney, BD\*, Nichols, PD\*, Phleger, CF\*, **Smith, GG**, Hart, PR, Ritar, AJ, 'The Effect of Diet on the Biochemical Composition of Juvenile *Artemia*: Potential Formulations for Rock Lobster Aquaculture', *Journal of the World Aquaculture Society*, 33 (2) 146-157 (2002) [A1]

**O'Reilly, JM**, McArthur, C, Potts, BM, 'Genetic variation in resistance of *Eucalyptus globulus* to marsupial browsers', *Oecologia* (130) 289-296 (2002) [A1]

**Page, BC**, Goldsworthy, SD\*, Hindell, MA, 'Individual vocal traits of mother and pup fur seals', *Bioacoustics* (13) 121-143 (2002) [A1]

**Page, BC**, Goldsworthy, SD\*, Hindell, MA, Mckenzie, J\*, 'Interspecific differences in male vocalizations of three sympatric fur seals (*Arctocephalus* spp.)', *Journal of Zoology* (258) 49-56 (2002) [A1]

Ritz, DA, **Cromer, L**, Swadling, KM, Nicol, S\*, Osborn, JE, 'Heart rate as a measure of stress in Antarctic krill, *Euphausia superba*', *Journal of the Marine Biological Association of the United Kingdom* (82) 4183-4 (2002) [A1]

**Robinson, S**, Goldsworthy, SD\*, van den Hoff, J\*, Hindell, MA, 'The foraging ecology of two sympatric fur seal species, *Arctocephalus gazella* and *Arctocephalus tropicalis*, at Macquarie Island during the austral summer', *Marine and Freshwater Research*, 53 (1) 1071-1082 (2002) [A1]

**Ross, DJ**, Johnson, CR, Hewitt, CL\*, 'Impact of introduced seastars *Asterias amurensis* on survivorship of juvenile commercial bivalves *Fulvia tenuicostata*', *Marine Ecology-Progress Series* (241) 99-112 (2002) [A1]

**Smith, GG**, Ritar, AJ, Phleger, CF\*, **Nelson, MM**, Mooney, B\*, Nichols, PD\*, Hart, PR, 'Changes in gut content and composition of juvenile *Artemia* after oil enrichment and during starvation', *Aquaculture*, 208 (1-2) 137-158 (2002) [A1]

**Tierney, M**, Hindell, MA, Goldsworthy, SD\*, 'Energy content of mesopelagic fish from Macquarie Island', *Antarctic Science*, 14 (3) 225-230 (2002) [A1]

**Turnbull, DKR**, Barmuta, LA, 'Substrate complexity influences the preference of a predatory stonefly, *Eusthenia costalis* BANKS (Plecoptera: Eustheniidae), for its prey', *Archiv für Hydrobiologie*, 155 (3) 481-492 (2002) [A1]

Walsh, CJ\*, **Gooderham, JPR**, Grace, MR\*, Sdraulig, S\*, Rosyidi, MI\*, Lelono, A\*, 'The relative influence of diffuse- and point-source disturbances on a small upland stream in East Java, Indonesia: a preliminary investigation', *Hydrobiologia* (487) 183-192 (2002) [A1]

## Book

**Gooderham, J**, Tsyrlin, E\*, *The Waterbug Book - A Guide to the Freshwater Macroinvertebrates of Temperate Australia*, CSIRO Publishing, Collingwood, 232 (2002) [B2]

## Thesis Accepted for Higher Degree

**Bulman, CM**, 'Trophic ecology and food web modelling of mid-slope demersal fishes off Southern Tasmania, Australia' (2002) [M3]

**Dunstan, PK**, 'Spatial self-organising as an important determinant of community dynamics in a temperate marine epibenthic community' (2002) [M3]

**Elvey, WF**, 'The impacts of brown trout (*Salmo trutta*) in streams: the implications of prey identity and habitat' (2002) [M3]

**Fulton, EA**, 'The effects of model structure and complexity on the behaviour and performance of marine ecosystem models' (2002) [M3]

**Gartrell, BD**, 'Nutritional and physiological constraints on reproduction in the endangered swift parrot, *Lathamus discolor*' (2002) [M3]

**Le Mar, K**, 'Spatial organisation and habitat selection patterns of three marsupial herbivores within a patchy forestry environment' (2002) [M3]

**Morris, AE**, 'Early life history of the introduced sea star *Asterias amurensis* in the Derwent Estuary, Tasmania: The potential for ecology-based management' (2002) [M3]

# Research Output 2002

	Total		PhD/Masters		Percentage	
	Items	Weighted	Items	Weighted	Items	Weighted
<b>Arts</b>						
Art (Hobart)	42	42.00	14	14.00	33	33
Asian Languages and Studies	14	13.50	2	2.00	14	14
Conservatorium of Music	4	4.00	1	1.00	25	25
English, Journalism and European Languages	38	37.50	1	1.00	2	2
Government	44	40.00	2	2.00	4	5
History and Classics	48	46.50	6	7.00	12	15
Philosophy	32	30.17				
Riawunna	20	20.00				
Sociology and Social Work	43	35.67	6	4.83	13	13
Visual and Performing Arts	52	52.00	8	8.00	15	15
<b>Sub Total</b>	<b>337</b>	<b>321.33</b>	<b>40</b>	<b>39.83</b>	<b>11</b>	<b>12</b>
<b>Commerce</b>						
Accounting and Finance	3	3.00				
Economics	14	13.17	1	0.50	7	3
Information Systems	22	20.00	16	10.83	72	54
Management	28	23.33	2	0.53	7	2
<b>Sub Total</b>	<b>67</b>	<b>59.50</b>	<b>19</b>	<b>11.87</b>	<b>28</b>	<b>19</b>
<b>Education</b>						
<i>Centre for Research and Learning in Regional Australia</i>	27	24.42	4	3.50	14	14
Education	82	68.68	1	2.00	1	2
<b>Sub Total</b>	<b>109</b>	<b>93.10</b>	<b>5</b>	<b>5.50</b>	<b>4</b>	<b>5</b>
<b>Health Science</b>						
<i>Anatomy and Physiology</i>	29	14.73	22	6.08	75	41
<i>Biochemistry</i>	16	19.74	14	9.67	87	48
<i>General Practice</i>	12	7.67				
Human Life Science	33	19.09	13	4.36	39	22
<i>Medicine (Discipline)</i>	53	24.64	1	1.12	1	4
Menzies Centre	35	25.56	9	1.95	25	7
Nursing	11	11.12		2.12		19
<i>Paediatrics and Child Health</i>	3	2.17				
<i>Pathology</i>	4	8.83	2	2.40	50	27
Pharmacy	15	9.60	6	2.62	40	27
<i>Psychiatry</i>	14	11.25		0.44		3
Rural Health	16	13.68				
<i>Surgery</i>	5	3.27	1	0.67	20	20
<b>Sub Total</b>	<b>246</b>	<b>171.32</b>	<b>68</b>	<b>31.43</b>	<b>27</b>	<b>18</b>
<b>Law</b>						
Law	73	71.32		1.00		1
<b>Sub Total</b>	<b>73</b>	<b>71.32</b>		<b>1.00</b>		<b>1</b>
<b>Science and Engineering</b>						
Agricultural Science	174	63.56	50	15.57	28	24
Architecture	41	40.33		0.71		1
Central Science Laboratory	4	5.28				
<i>Centre for Food Safety and Quality</i>		8.00		0.33		4
<i>Centre for Ore Deposit Research - CODES SRC</i>	27	16.57	10	3.31	37	19
Chemistry	47	29.90	18	7.88	38	26
Computing	23	14.20				
CRC-Antarctic and Southern Ocean Environment	11	9.79				
CRC-Sustainable Production Forestry		7.62		3.83		50
Earth Sciences	9	6.10	1	0.95	11	15
Engineering	50	42.52	19	9.25	38	21
Geography and Environmental Studies	94	78.84	30	26.30	31	33
IASOS	27	15.92	15	5.99	55	37
<i>Mathematics</i>	38	29.55	1	0.50	2	1
<i>Physics</i>	17	8.51	3	1.53	17	18
Plant Science	37	29.61	10	6.83	27	23
Psychology	61	54.56	24	28.10	39	51
TAFI - <i>Aquaculture</i>	56	49.75	36	17.87	64	35
TAFI - <i>Fish Health Unit</i>		3.25				
TAFI - <i>Marine Research Laboratory</i>	94	74.08	18	7.82	19	10
TAFI - <i>Zoology</i>		1.17				
<i>Tasmanian Institute of Agricultural Research</i>		61.08		4.28		7
Zoology	68	46.95	42	23.93	61	50
<b>Sub Total</b>	<b>878</b>	<b>697.14</b>	<b>277</b>	<b>164.98</b>	<b>31</b>	<b>23</b>
<b>TOTAL</b>	<b>1710</b>	<b>1413.71</b>	<b>409</b>	<b>254.61</b>	<b>23</b>	<b>18</b>