

# Postgraduate Research Activity

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# 2003



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## **Research Output 2003**

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# 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 coursework
- 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**

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# 2003

## **Arts**

# Art (Hobart)

## Conference Publication

**Hodgkin, JG**, 'Just Too... Pink: Visual Culture, Absent Homosexuality and Identity', *Survey: Current art and design research and practice within Australian tertiary art and design schools*, Tasmanian School of Art, University of Tasmania, EJ (2003) [F1]

**Knights, MA**, 'The Diseased Corpse', *Survey: Current art and design research and practice within Australian tertiary art and design schools*, Tasmanian School of Art, University of Tasmania, EJ (2003) [F1]

**Ozolins, BT**, 'Installation: Strategy or Style', *Survey: Current art and design research and practice within Australian tertiary art and design schools*, Tasmanian School of Art, University of Tasmania, EJ (2003) [F1]

**Phillips, A**, 'From the foul to the fragrant: olfactory recollections of Paris', *Survey: Current art and design research and practice within Australian tertiary art and design schools*, Tasmanian School of Art, University of Tasmania, EJ (2003) [F1]

**Walch, MB**, 'Lines of Sight from Signs of Light', *Survey: Current art and design research and practice within Australian tertiary art and design schools*, Tasmanian School of Art, University of Tasmania, EJ (2003) [F1]

## Major Creative Work

**Cockburn, ET**, *Unearthed*, Canberra Contemporary Art Space, Canberra, 1 (2003) [K3]

**Lendis, AJ**, *Silent Spaces*, Charles Hewitt, Paddington, NSW, 1, 1 (2003) [K3]

**O'Rourke, RA**, *Objects of Vertu: Rosemary O'Rourke*, Craft Victoria and CAST, Craft Victoria, 31 Flinders Lane, Melbourne, 10 (2003) [K3]

**Ozolins, BT**, *The Library*, Contemporary Art Services Tasmania, CAST Gallery, Hobart, 1, 52 (2003) [K3]

## Other Creative Work

Frankham, N, **Walch, MB**, *IXL Art*, Plimsoll Gallery, Hobart, 35 (2003) [L2]

**Ozolins, BT**, Kunda, M, *The Library: Brigita Ozolins*, CAST, Hobart, 52 (2003) [L2]

**Briant, IM**, *From the 'scape: Irene Briant, Brigid Cole-Adams. Ian Parry and Chris Dyson*, Judith Pugh Gallery and Fortyfivedownstairs, Melbourne, 4 (2003) [L3]

**Brinckman, TA**, *Clearing*, CAST, Hobart, 3 (2003) [L3]

**Lee, FMJ**, *IXL Art*, Plimsoll gallery, Hobart, 7 (2003) [L3]

**Ozolins, BT**, *Content (#2)*, University of Tasmania, Hobart, Installation (2003) [L3]

**Ozolins, BT**, *Living History*, State Library of Tasmania, Hobart, Installation (2003) [L3]

**Portlock, K**, *Refresh: Five Years of Photo Technica*, Australian Centre for Photography, Sydney, Broadsheet (2003) [L3]

**Rose, RAM**, *IXL Art*, Plimsoll Gallery, Hobart, 4 (2003) [L3]

**Usmiani, LL**, *IXL Art*, Plimsoll Gallery, Hobart, 3 (2003) [L3]

**Walch, MB**, *Photographica Australis*, Australian Centre for Photography and Asialink, Sydney, 48 (2003) [L3]

**Winterbottom, T**, *Everyday Entertainment*, CAST, Hobart, 6 (2003) [L3]

**Winterbottom, T**, *Suburban Edge*, Australian Centre for Photography, Sydney, Not paginated: On-line catalogue @ www.a (2003) [L3]

## Thesis

**Hawley, D**, 'Reinterpreting Pattern and Decoration in Contemporary Painting' (2003) [M1]

**Watt, YM**, 'Food for Thought; a visual investigation of the nature-culture dichotomy as manifested in 'farm animals' (2003) [M1]

**Costello, PG**, 'Artefact' (2003) [M3]

**Frost, RE**, 'Memory's Image' (2003) [M3]

**Psotova, H**, 'True Fictions: An Investigation of Identity, Narrative and Photography' (2003) [M3]

**Quon, JW**, 'Art as ecological communication: an application of site-specific installation art to marine ecosystem degradation' (2003) [M3]

**Ruffels, TD**, 'Subjective response to Place through convergent strategies in Digital Imaging and Print processes' (2003) [M3]

**Ryan, SL**, 'Theatrical Ambiguity and Lenticular Imaging Techniques' (2003) [M3]

**Voss, J**, 'Photographic Representations and Veracity in the Australian Arena' (2003) [M3]

## Other Public Output

**Ozolins, BT**, 'Pat Corrigan Artist Grant', *Catalogue support*, Pat Corrigan, Gold Coast, Queensland (2003) [O6]

**Pridmore, ME**, 'Portia Geach Memorial Award 2003', *Portia Geach Memorial Award 2003 Catalogue*, National Trust of Australia: S.H.Ervin Gallery, Sydney, Sydney, 1 (2003) [O6]

\* *Not a member of this University.*

# Asian Languages and Studies

## **Journal Article**

**Bain, L**, 'NGO theatre in the post New Order',  
*Inside Indonesia*, 1 (76) 29-30 (2003) [A2]

# Conservatorium of Music

## **Thesis**

**Malone, D**, 'Bringing New Works to Life:  
Collaboration and Interpretation in the  
Performance, Recording and Editing of New  
Works for Guitar' (2003) [M1]

# English, Journalism and European Languages

## **Thesis**

**Iida, N**, 'Women and Writing: A Comparative Study of some Texts by Miles Franklin and Higuchi Ichiyo' (2003) [M1]

**Moss, SE**, 'Orlan/Deleuze: Corporeal/(In)Corporeal' (2003) [M1]

**Petz, BH**, 'Gunter Grass's Unkenrufe: Telling German Hi/Stories' (2003) [M3]

# Government

## Journal Article

Jones, DM, Smith, MLR\*, **Weeding, MJ**, 'Looking for the Pattern: *Al Qaeda* in Southeast Asia-The Genealogy of a Terror Network', *Studies in Conflict and Terrorism*, 26 (6) 443-457 (2003) [A1]

**Zwart, IC**, 'A Greener Alternative? Deliberative Democracy Meets Local Government', *Environmental Politics*, 12 (2) 23-48 (2003) [A1]

## Chapter in Book

**Woodier, JR**, 'Problem Inherent At Source: The Communication Media in post 9/11 Southeast Asia', *September 11 & Political Freedom: Asian Perspectives*, Select Publishing Pte Ltd, U Johannan, A Smith and J Gomez (ed), Singapore, 176-212 (2003) [C1]

## Conference Publication

**Cichon, TT**, 'The Lusatian Sorbs and the German Democratic Republic (GDR)', *Proceedings of the Australasian Political Studies Association Conference*, Hobart, Tasmania, EJ (2003) [F1]

**Hislop, CF**, 'Two Challenges to the Creation of Non-Jurisdictional Marine Protected Areas: Freedom of the High Seas Doctrine and the Common Heritage of Mankind Principle',

*Proceedings of the Australasian Political Studies Association Conference*, Hobart, Tasmania, EJ (2003) [F1]

**McCracken, KJ**, 'The Third Way: Post-ideology or Politics as Usual?', *Proceedings of the Australasian Political Studies Association Conference*, Hobart, Tasmania, EJ (2003) [F1]

**Nichols, BRJ**, 'The Politics of Assassination: Case Studies and Analysis', *Proceedings of the Australasian Political Studies Association Conference*, Hobart, Tasmania, EJ (2003) [F1]

**Vince, JZ**, 'The Development of Australia's Oceans Policy: Institutions and the 'Oceans Policy Community'', *Proceedings of the Australasian Political Studies Association Conference*, Hobart, Tasmania, EJ (2003) [F1]

**Zwart, IC**, 'Deliberating the Environment: Theory and Practice', *Proceedings of the Australasian Political Studies Association Conference*, Hobart, Tasmania, EJ (2003) [F1]

## Thesis

**Shelley, R**, 'The International Dimension of Democratisation: East Asia' (2003) [M3]

**Zwart, IC**, 'A Greener Alternative? Deliberative Democracy Meets Local Government in Australia' (2003) [M3]

# History and Classics

## Journal Article

**Grimmer, MR**, 'The Early History of Glastonbury Abbey: A Hypothesis Regarding the 'British Charter'', *Parergon*, **20** (2) 1-20 (2003) [A1]

## Chapter in Book

**Bardenhagen, ME**, 'Beachside', *On the Tide 2: More Stories of the Tamar*, Launceston Library, P Richardson (ed), Launceston, 58-62 (2003) [C2]

## Conference Publication

**Jordan, RC**, 'Hobart's Leading Women; The Woman's Christian Temperance Union and the National Council of Women of Tasmania: Working Together in Hobart, 1885-1914', *Living and Working in Hobart: Historical Perspectives: Papers and Proceedings of the Conference Held by the Professional Historians Association (Tasmania) on 20 October 2002*, Hobart, 12-19 (2003) [F2]

**Mason Cox, M**, 'Early Settlement and Hobart's Bicentenary', *Living and Working in Hobart: Historical Perspectives: Papers and Proceedings of the Conference Held by the Professional Historians Association (Tasmania) on 20 October 2002*, Hobart, 75-80 (2003) [F2]

## Major Creative Work

Bladel, R\*, Breen, SM, **Boyce, PJ**, Alexander, AA, Cox, T\*, *Tasmanian Stories: The John Lees Forums. Forum 2 – Living History Today – The Legacy of the Past*, Australian Broadcasting Commission, Stanley Burbury Theatre, University of Tasmania (2003) [K2]

## Thesis

**Piper, AKS**, 'Beyond the Convict System: The Aged Poor and Institutionalisation in Colonial Tasmania' (2003) [M3]

**Roberts, G**, 'The Tasmanian Government and the Metal Mining Industry: An Administrative History, 1880-1914' (2003) [M3]

**Grimmer, MR**, 'Celt and Saxon: Interaction in Pre-Viking Britain, c.600-800' (2003) [M3]

**Haygarth, N**, 'The 'Father of Tasmania': Measuring the Legend of James 'Philosopher' Smith' (2003) [M3]

# Sociology, Social Work & Tourism

## Journal Article

**Ellis, CF**, 'Participatory Environmental Research in Tourism: A Global View', *Tourism Recreation Research*, 28 (3) 45-55 (2003) [A1]

Tranter, B\*, **Donoghue, J**, 'Convict ancestry: a neglected aspect of Australian identity', *Nations and Nationalism*, 9 (4) 555-577 (2003) [A1]

## Conference Publication

**Forbes, J**, 'The Housing Experience of Single Older Women: An Interpretive Approach', *Maximising the Impact on Policy and Practice: Proceedings of ERA 2003.*, Brisbane, Queensland, 40-43 (2003) [F2]

**Rosevear, L**, 'The Carers of Female Prisoners' Children – The Hidden Victims of Imprisonment', *Is Prison Obsolete?*, Brisbane, 1-11 (2003) [F2]

Hansen, EC, **Walters, J**, Mudge, P, Gartlan, J, Wood-Baker, R, Walters, EH, Spinaze, AC, 'A Pilot Study of General Practitioners' Diagnosis and Management of Middleaged/Elderly COPD Patients', *2003 General Practice and Primary Health Care Research Conference: Primary Health Care Research: Evolution or Revolution ?*, National Convention Centre Canberra, 145 (2003) [F3]

## Thesis

**Walter, MM**, 'Working Their Way Out of Poverty? Australian Sole Mothers, Labour Market Participation and Welfare Reform' (2003) [M3]

## Other Public Output

**Forbes, J**, 'Conference Report: AQR', *NEXUS*, The Australian Sociological Association Inc, Launceston, Tasmania, 15, 3 (2003) [O4]

# Visual and Performing Arts

## Major Creative Work

**Thomas, J**, *Judith-Rose Thomas*, Forest Eco-Centre, Scottsdale (2003) [K3]

## Other Creative Work

**Aedy, AM**, *Matter; Pieces; Some thing*, Academy Gallery, Launceston, 3 (2003) [L3]

**Aedy, AM**, *The Past Remains 1; The Past Remains 2; The Past Remains 3*, Ten Days on the Island, Highway 1, Ross, 3 (2003) [L3]

**Anglesey, JN**, *Inheritance Series: Hamley; Paddy and Louisa's path; Paddy's Dairy*, Academy Gallery, Launceston, 3 (2003) [L3]

**Broad, EC**, *Arrangement No.1; Still life series IV; Cornwall Square: from place to placelessness*, Academy Gallery, Launceston, 16 (2003) [L3]

**Broad, EC**, *Munchies Hat; Shopping Hat; Ceci n'est pas une chapeau*, Academy Gallery, Launceston, 3 (2003) [L3]

**Edwards, DL**, *bear density; whose indoor scene; chance remote*, Academy Gallery, Launceston, 3 (2003) [L3]

**Edwards, DL**, *Verge 1, 2, 3*, Arts at Work, Hobart, 3 (2003) [L3]

**Edwards, TJ**, *Whence; Filament; Residual*, Academy Gallery, Launceston, 3 (2003) [L3]

**King, GF**, *Synthesized Images 1, 2, 3*, Academy Gallery, Launceston, 3 (2003) [L3]

**Lee, H**, *Everyday on Culture; Everyday on Heritage;*

*Everyday on Shopping*, Academy Gallery, Launceston, 3 (2003) [L3]

**Parish, J**, *Articulated Bird 1; Articulated Wing Study; Preparation Drawing*, Academy Gallery, Launceston, 3 (2003) [L3]

**Thomas, J**, *Living artists: Ros Langford, Allan Mansell and Judith-Rose Thomas*, Art Mob – Aboriginal Fine Art, Hobart, 7 (2003) [L3]

**Thomas, J**, *Aboriginal Petroglyphs*, Claremont High School, Hobart, 1 (2003) [L4]

**Thomas, J**, *Spectre II; Tribute to the shell necklace makers*, National Museum of Australia, Canberra, 2 (2003) [L4]

**Thomas, J**, *Untitled1; Untitled 2; Untitled 3*, Service Tasmania- Rosny Shop, Hobart, 3 (2003) [L4]

## Thesis

**Pitchford, J**, 'Form and function: the image on the inside of the eggshell' (2003) [M1]

**Wright, B**, 'Art form – Artefact . A theoretical evaluation of the textile medium, its history and current use in Australian art and culture' (2003) [M1]

## Other Public Output

**Aedy, AM**, 'Hobart's waterfront future in wrong hands', *The Sunday Tasmanian*, The unday Tasmanian, Hobart, 1, 16 Novemeber 2003 (2003) [O2]

**Thomas, J**, 'Painter makes black art rock', *The Mercury*, The Mercury, Hobart, 20 August 2003 (2003) [O3]

**Thomas, J**, 'Sold on Tasmanian indigenous art', *Unitas*, University of Tasmania, Hobart, 245, 23 June 2003 (2003) [O4]

**Aedy, AM**, 'Bill Roberts Tasmania University Travelling Scholarship in Fine Arts', University of Tasmania, 2003 (2003) [O6]

**Aedy, AM**, 'Place', *Off the Wall*, Queen Victoria Museum & Art Gallery, Launceston, 1, 27 Sept-12 Oct 2003 (2003) [O6]

**Thomas, J**, 'Realm; Field', *The Service Tasmania Story*, Department of Premier and Cabinet, Hobart, 1, 2003 (2003) [O6]

**Thomas, J**, 'Region 2002', *Aboriginal Artists of the Islands: Tasmania and the Furneaux*, Women Tasmania, Hobart, 31 January 2003 (2003) [O6]

# **Postgraduate Research Activity**

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# 2003

# **Commerce**

# Accounting & Finance

## **Journal Article**

**Koh, PS**, 'On the association between institutional ownership and aggressive corporate earnings management in Australia', *The British Accounting Review*, 35 (2) 105-128 (2003) [A1]

# Economics

## Journal Article

Felmingham, BS, **Leong, SS**, 'The stationarity of Australian real interest rates with and without structural breaks', *Applied Economics Letters*, 10 (4) 239-241 (2003) [A1]

## Other Public Output

Jennings, SM, **Van Putten, IE**, 'Information Sources for Non-industrial Private Forest Owners in Tasmania', *CRC Technical Report*, CRC for Sustainable Production Forestry, Tasmania, 1, 116 (2003) [O5]

# Information Systems

## Journal Article

**Clarke, J**, 'Back to business basics: have the Canadians got it right?', *Australasian Biotechnology*, **13** (5) 26-28 (2003) [A1]

**Clarke, J**, Turner, P, 'Extending the knowledge-based view: an examination of intellectual property strategies in Australian biotechnology firms', *Prometheus*, **21** (1) 85-100 (2003) [A1]

## Chapter in Book

**Broucek, V**, Turner, P, 'A forensic computing perspective on the need for improved user education for Information Systems Security Management', *Current Security Management and ethical issues of information technology*, IRM Press, Rasool Azari (ed), Hershey, 42-49 (2003) [C1]

**Steer, D**, Turner, P, 'The role of place: Tasmanian insights on ICT and regional development', *Using community informatics to transform regions*, Idea Group, Stewart Marshall (ed), USA, 67-82 (2003) [C1]

## Conference Publication

**Broucek, V**, Turner, P, 'Intrusion detection: Forensic computing insights arising from a case study on SNORT', *Conference Proceedings*, Denmark, 17 (2003) [F1]

**Broucek, V**, Frings, S\*, Turner, P, 'The Federal Court, the Music Industry and the Universities: Lessons for Forensic Computing Specialists', *Conference Proceedings*, Perth, 8 (2003) [F1]

**Clarke, J**, Turner, P, 'Commercial sensitivity in the IS discipline: A practical approach and consideration for researchers entering the field', *Conference Proceedings*, Perth, 10 (2003) [F1]

**Clarke, J**, Turner, P, 'The business model concept and information systems strategy: Developing a heuristic tool for exploring knowledge-based SME's', *Conference Proceedings*, Adelaide, 17 (2003) [F1]

**Cox, R**, 'What is the value of emotion in communication? Implications for user centered design', *Conference proceedings*, France, 9 (2003) [F1]

**Hannan, M**, Turner, P, 'Australian Forensic Computing investigating teams: Research on competence', *Conference Proceedings*, Adelaide, 1517-1538 (2003) [F1]

**Hannan, M**, Turner, P, 'Beyond the matrix: Research on competence among Australian forensic computing investigation teams', *Conference Proceedings*, Reading, 23 (2003) [F1]

Hannan, M\*, Frings, S\*, **Broucek, V**, Turner, P, 'Forensic Computing theory and practice towards developing a methodology for a standardised approach to computer misuse', *Conference Proceedings*, Perth, 9 (2003) [F1]

Hannan, M\*, Turner, P, **Broucek, V**, 'Refining the Taxonomy of Forensic Computing in the era of E Crime: Insights from a survey of Australian Forensic Computing investigation (FCI) teams', *Conference Proceedings*, Adelaide, 151-158 (2003) [F1]

**Steer, D, Turner, P,** 'Developing a holistic approach for evaluating the role of ICTS in regional Australia: A Tasmanian perspective', *Conference Proceedings, Caloundra*, 61-69 (2003) [F1]

**Steer, D, Turner, P, Cummings, L\*,** 'Developing a Public Hospital general practice internet interface: An evaluation of GPlinkED Tasmania, A HIRaD Project', *Conference Proceedings, Caloundra, Queensland*, 222-233 (2003) [F1]

**Cox, R, Newell, CJ, Turner, P,** 'Content and Context: User Centered Reflections on Technologically Mediated Interaction', *Conference Proceedings, Sydney*, 5 (2003) [F2]

## **Thesis**

**Chau, S,** 'Developing a four phase model: Thirty-four case studies exploring the utilisation of electronic commerce in Australia small and medium size enterprises' (2003) [M3]

**deSalas, K,** 'Factors inhibiting the collaborative adoption of Electronic Commerce Technologies in a Tasmanian Industry Sector' (2003) [M3]

# Management

## **Journal Article**

**Middleton, SA**, Hanson, DJ, 'Corporate Reputation and Scientific Reputation: The Mysterious Case of Girard and Agassiz', *Corporate Reputation Review*, 6 (2) 147-160 (2003) [A1]

## **Thesis**

**Faifua, DE**, 'Willing and Social Work Participation: Socio-cultural Rationalisation in Industrial Organisation' (2003) [M3]

# **Postgraduate Research Activity**

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# 2003

## **Education**

# Education

## Review

**Gardner, CM**, Williamson, JC, 'Self-Study for Teacher Educators: crafting a pedagogy for educational change', *Teaching Education*, 1 (1) 335-339 (2003) [D3]

## Conference Publication

**Cleaver, DM**, 'Narrative case studies of musical lives: A methodological approach to socio-musical meaning', *Curriculum Innovation in Music : 4th Asia Pacific Symposium on Music Education Research*, Hong Kong Institute of Education, 99-103 (2003) [F1]

Williamson, JC, **Gardner, CM**, 'Learning to teach is a messy affair: Framing and reframing teacher education using student feedback from WebCT', *ICTE 2003 International Yearbook on Teacher Education*, Melbourne, Australia, EJ (2003) [F1]

## Thesis

**Andrew, RG**, 'The Accelerated Schools Project in Australia: Resilience & Renewal' (2003) [M3]

**Bridge, DJ**, 'Developing Understandings of Inclusion and Inclusive Schooling' (2003) [M3]

**Fluck, A**, 'Integration or Transformation? A cross-national study of ICT in school education' (2003) [M3]

**Johnston, R**, 'On Location/s: Seeking field sites for the study of society and environment in teacher education – an analysis of social constructs of place and space' (2003) [M3]

**Thomas, SL**, 'Living with paradox: The experience of living and teaching in another culture' (2003) [M2]

**Postgraduate Research Activity**

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**2003**

**Health Science**

# Human Life Science

## Journal Article

Geraghty, DP, **Mazzone, SB**, 'Tachykinin receptor (NK<sub>1</sub>, NK<sub>2</sub>, NK<sub>3</sub>) binding sites in the rat caudal brainstem following neonatal capsaicin administration', *Brain Research* (979) 230-234 (2003) [A1]

**Grossel, GW**, Dykova, I\*, Handlinger, JH, Munday, BL, '*Pentacapsula neurophila* sp.n (Multivalvulida) from the central nervous system of striped trumpeter, *Latris lineata* (Forster)', *Journal of Fish Diseases*, 26 (6) 315-320 (2003) [A1]

**Smith, TP**, Coombes, J\*, Geraghty, DP, 'Optimising high-intensity treadmill training using the running speed at maximal O<sub>2</sub> uptake and the time for which this can be maintained', *European Journal of Applied Physiology* (89) 337-343 (2003) [A1]

# Medicine

## Anatomy and Physiology

### Journal Article

**Bethge, P**, Munks, SA, Otley, HM, Nicol, SC, 'Diving behaviour, dive cycles and aerobic dive limit in the platypus *Ornithorhynchus anatinus*', *Comparative Biochemistry and Physiology Part A*, **136** 799-809 (2003) [A1]

**Chung, RS**, Vickers, JC, Chuah, MI, West, AK, 'Metallothionein-IIA Promotes Initial Neurite Elongation and Postinjury Reactive Neurite Growth and Facilitates Healing after Focal Cortical Brain Injury', *Journal of Neuroscience*, **23** (8) 3336-3342 (2003) [A1]

**Vincent, AJ**, West, AK, Chuah, MI, 'Morphological Plasticity of Olfactory Ensheathing Cells Is Regulated by cAMP and Endothelin-1', *Glia*, **41** 393-403 (2003) [A1]

**Woodhall, E**, West, AK, Vickers, JC, Chuah, MI, 'Olfactory ensheathing cell phenotype following implantation in the lesioned spinal cord', *Cellular and Molecular Life Sciences*, **60** 2241-2253 (2003) [A1]

### Conference Publication

**Bethge, P**, Munks, SA, Nicol, SC, 'Aerobic dive limit and the organisation of the dive cycle in the platypus *Ornithorhynchus anatinus*', *Monotreme Biology*, Tasmania, **2** (2003) [F3]

**Bethge, P**, Munks, SA, Otley, HM, Nicol, SC, 'Platypus burrow temperatures', *Monotreme III Abstracts*, Sydney, **2** (2003) [F3]

**Chung, RS**, Woodhouse, A, Fung, SJ, Vincent, AJ, West, AK, Vickers, JC, Chuah, MI, 'Olfactory ensheathing cells promote reactive neurite sprouting *in vitro* through both direct and indirect mechanisms', *Society for Neuroscience*, New Orleans, 42.20 (2003) [F3]

**Chung, RS**, Woodhouse, A, Fung, SJ, Vincent, AJ, West, AK, Vickers, JC, Chuah, MI, 'Olfactory ensheathing cells promote reactive neurite sprouting *in vitro* through both direct and indirect mechanisms', *Journal of Neurotrauma*, USA, 1099 (2003) [F3]

**Chung, RS**, Dittman, J, Vickers, JC, Chuah, MI, West, AK, 'The role of extracellular metallothionein in cortical wound healing', *Proceedings of the Australian Neuroscience Society*, Adelaide, 04-03 (2003) [F3]

**Dittman, J**, **Chung, RS**, Chuah, MI, Vickers, JC, West, AK, 'Neuronally released factors induce metallothionein in neighbouring astrocytes following injury', *Combio Conference Abstracts*, Melbourne, 133 (2003) [F3]

**Vincent, AJ**, Taylor, JM\*, Chuah, MI, **Chung, RS**, **Fung, SJ**, West, AK, 'What is an olfactory ensheathing cell? A microarray comparison of ensheathing cells, Schwann cells and astrocytes', *Society for Neuroscience*, New Orleans, 358.4 (2003) [F3]

# Medicine

## Biochemistry

### Journal Article

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**Lacey, W**, 'Inherent Jurisdiction, Judicial Power and Implied Guarantees under Chapter III of the Constitution', *Federal Law Review*, 31 (1) 57-86 (2003) [A1]

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**2003**

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**Wiseman, D**, Mohammed, CL, Hall, M, Beadle, CL, Pinkard, EA, 'Tree nutrition effects on wood decay associated with pruning wounds in plantation grown *Eucalyptus nitens*', *Volume 2 – Offered Papers 8th International Congress of Plant Pathology*, Christchurch, New Zealand, 1 (2003) [F3]

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**Rasmussen, SKJ**, 'Food safety risk assessment for the Australian Dairy Industry' (2003) [M1]

**Brown, JL**, 'Kinetics and mechanisms of the Low-pH-induced inactivation of *Escherichia coli*' (2003) [M3]

**Burkitt, L**, 'Defining the phosphorous sorption properties of pasture soils and their influence on phosphorous fertiliser requirements' (2003) [M3]

**Eyles, A**, 'Wound responses of *Eucalyptus globules* and *E. nitens*; anatomy and chemistry' (2003) [M3]

**Groom, K**, 'An investigation of breeding methods applicable to Tasmanian-grown pyrethrum' (2003) [M3]

**Ladiges, S**, 'Cu and Zn relations in fertilised eucalypt plantations' (2003) [M3]

**Nahrung, HF**, 'Reproductive ecology of *Chrysophtharta agricola* (Chapuis) (Coleoptera: Chrysomelidae)' (2003) [M3]

**Potter, KJB**, 'Factors affecting establishment and efficacy of the ragwort flea beetle *Longitarsis flavicornis* (Stephens), in the biological control of ragwort, *Senecio jacobaea* L., in Tasmania' (2003) [M3]

**Ramona, Y**, 'Assessment of Some Antagonists to Fungal Plant Pathogens and Development Methods for their Large Scale Cultivation' (2003) [M3]

**Scott, JB**, 'Epidemiological studies of downy mildew of oilseed poppy' (2003) [M3]

**Smith, MC**, 'Molecular genetics of polyunsaturated fatty acid biosynthesis in marine bacteria' (2003) [M3]

**Wardlaw, TJ**, 'Development of decay in *Eucalyptus regnans*, *E. obliqua* and *E. delegatensis*' (2003) [M3]

## Other Public Output

**Heazlewood, J**, 'Stabilising the yield of Pinot Noir in Tasmania', *The Australian & New Zealand Grapegrower & Winemaker*, Ryan Publications Pty Ltd, Beulah Park, South Australia, September (2003) [O2]

**Heazlewood, J**, Wilson, SJ, 'Anthesis, Pollination and Fruit Set in Pinot Noir', National Workshop – Grape & Wine Research Development Corporation, Hobart, Tasmania (2003) [O5]

**Scott, JB**, Hay, FS, 'Literature Review', *The Epidemiology of Poppy Downy Mildew*, HRDC, Glaxo Wellcome, Tasmanian Alkaloids, Burnie, Tasmania (2003) [O5]

# Agricultural Science

## Tasmanian Institute of Agricultural Research

### Journal Article

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Ireson, J, Gourlay, AH\*, Kwong, RM\*, Holloway, RJ, **Chatterton, WS**, 'Host specificity, release, and establishment of the gorse spider mite, *Tetranychus lintearius* Dufour (Acarina: Tetranychidae), for the biological control of gorse, *Ulex europaeus* L. (Fabaceae), in Australia', *Biological Control*, **26** 117-127 (2003) [A1]

**Scott, JB**, Hay, FS, Wilson, CR, Cotterill, PJ\*, Fist, AJ\*, 'Spatiotemporal Analysis of Epiphytotics of Downy Mildew of Oilseed Poppy in Tasmania, Australia', *Phytopathology*, **93** (6) 752-757 (2003) [A1]

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**Davies, SR**, Lane, PA, 'Seasonal changes in feed quality of *Dorycnium* spp', *Proceedings of the 11th Australian Agronomy Conference*, Geelong, Victoria, EJ (2003) [F1]

**Pang, J**, Zhou, M, Mendham, NJ, **Li, H**, Shabala, SN, 'Comparison of growth and physiological responses to waterlogging and subsequent recovery in six barley genotypes', *Proceedings 11th Australian Barley Technical Symposium*, Adelaide, South Australia (2003) [F1]

Vanclay, FM, Lane, R\*, Lucas, D, **Wills, J**, 'Committing to Place': A case study of an

uncommon partnership to increase participation in natural resource management through communication technologies in museum settings', *Proceedings of the 1st Australian Farming Systems Conference 2003*, Toowoomba, QLD, EJ (2003) [F1]

**Tegg, RS**, Shabala, SN, Eyles, A, Wilson, CR, 'Early ion signalling events in thaxtomin toxicity of plant cells', *Proceedings of the 13th International Symposium on the Biology of Actinomycetes*, Melbourne, Australia, 67 (2003) [F2]

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**Davies, JT**, Ireson, J, Allen, GR, 'The Impact of Gorse Thrips, Ryegrass Competition and Simulated Grazing on the Establishment and Growth of Gorse Seedlings', *Program and Extracts, 34th Australian Entomological Society/6th Invertebrate Biodiversity & Conservation Combined Conference*, The Corus Hotel, Hobart, Tasmania, 73 (2003) [F3]

**Haines, H**, Sanderson, K, Ross, T, 'An unusual pattern of bacterial attrition noted when highly concentrated inocula of *E. coli* O111:H- are introduced into Nutrient Broth (NB)', *Poster Presentation Vero Toxigenic Ecoli Conference 2003*, Edinburgh, United Kingdom, 1 (2003) [F3]

**Heath, AT**, Line, MA, Wilson, SJ, Bound, SA, Andrews, PG, 'Apple replant disease – potential countermeasures', *Abstracts of Offered Papers – 8th International Congress of Plant Pathology*, Christchurch, New Zealand, 325 (2003) [F3]

**Pang, J**, Shabala, SN, Mendham, NJ, Zhou, M, 'Screening methods for waterlogging tolerance in barley', *In: Genetic Solutions for Hostile Soils (Workshop Proceedings)*, CSIRO Plant Industry, Canberra, ACT (2003) [F3]

**Potter, KJB**, Ireson, J, Allen, GR, 'Adult Feeding and Oviposition Preferences of the Ragwort Flea Beetle *Longitarsus flavicornis* (Stephens) on Ragwort *Senecio jacobaea* L., from Australia and the Netherlands', *Program and Extracts, 34th Australian Entomological Society/6th Invertebrate Biodiversity & Conservation Combined Conference*, The Corus Hotel, Hobart, Tasmania, 70 (2003) [F3]

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**Chilvers, MI**, 'Epidemiology of *Botrytis* spp. associated with neck rot of onion in northern Tasmania' (2003) [M3]

**Johnson, PG**, 'Studies into the effectiveness of starter band applied phosphorus to Russet Burbank potatoes grown on Red Ferrosol soils in Tasmania' (2003) [M3]

**Spurr, C**, 'Identification and Management of Factors Limiting Hybrid Carrot Seed Production in Australia' (2003) [M3]

**Wilson, TK**, 'Development of selective enrichment culture-polymerase chain reaction (SEC-PCR) for the detection of bacterial pathogens in covertly infected farmed salmonid fish' (2003) [M3]

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**Cooper, C**, Davies, NW, Menary, RC, 'C-27 Apocarotenoids in the flowers of *Boronia megastigma* (Nees)', *Journal of Agricultural and Food Chemistry*, **51** (8) 2384-2389 (2003) [A1]

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McLean, SR, Brandon, S, Davies, NW, Boyle, RR, Foley, WJ\*, Moore, B\*, **Pass, GJ**, 'Glucuronuria in the Koala', *Journal of Chemical Ecology*, **29** (6) 1465-1477 (2003) [A1]

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**Grosse, AC**, Dicoski, GW, Shaw, M, Haddad, PR, 'Leaching and recovery of gold using ammoniacal thiosulfate leach liquors (a review)', *Hydrometallurgy*, **69** 1-21 (2003) [A1]

**Johns, CA**, Macka, M, Haddad, PR, 'Enhancement of detection sensitivity for indirect photometric detection of anions and cations in capillary electrophoresis', *Electrophoresis*, **24** 2150-2167 (2003) [A1]

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**Johns, CA**, Macka, M, Haddad, PR, 'Measurement of Detector Linearity and Effective Pathlength in Capillary Electrophoresis', *LC GC Europe* (May) 1-4 (2003) [A1]

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**McLean, DS**, Stack, KR, Richardson, D\*, 'Wood Pitch Deposition Versus Composition', *WPP Chemical Technology of Wood, Pulp and Paper*, Bratislava, Slovak Republic, 115-120 (2003) [F1]

**Vercoe, DQ**, Stack, KR, Blackman, AJ, Richardson, D\*, 'Interactions of Pitch Components at a Molecular Level', *WPP Chemical Technology of Wood, Pulp and Paper*, Bratislava, Slovak Republic, 127-133 (2003) [F1]

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**Handley, JT**, 'Studies of the secondary metabolite content of Tasmanian *Caulerpa* species' (2003) [M3]

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**Visentin, DC**, Hugrass, W, 'Control of the motion of the ions in rotating magnetic field current drive: 2. Transient analysis', *Plasma Physics and Controlled Fusion*, **45** 209-219 (2003) [A1]

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**Berry, AM**, Vamplew, PW, 'A Simplified Artificial Life Model for Multiobjective Optimisation: A Preliminary Report', *CEC 2003 Proceedings*, Canberra, ACT, 1331 – 1339 (2003) [F1]

**Dazeley, RP**, Kang, BH, 'Rated MCRDR: Finding non-Linear Relationships Between Classifications in MCRDR', *Frontiers in Artificial Intelligence Applications*, Melbourne, Victoria, 499-508 (2003) [F1]

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Tutoring System's Knowledge Acquisition', *AI 2003: Advances in Artificial Intelligence*, Perth, WA, 511-519 (2003) [F1]

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**Ollington, RB**, Vamplew, PW, 'Concurrent Q-Learning for Autonomous Mapping and Navigation', *The Second International Conference on Computational Intelligence, Robotics and Autonomous Systems*, Singapore, EJ (2003) [F1]

**Park, SS, Kim, YS**, Kang, BH, 'Web Information Management System: Personalization and Generalization', *Proceedings of the IADIS International Conference WWW/Internet 2003*, Algarve, Portugal, 523-530 (2003) [F1]

**Beulens, B**, Pauly, T\*, Higginbottom, I\*, 'Echoview as a multibeam sonar data processing and analysis toolkit for fisheries research', *The Journal of the Acoustical Society of America*, Austin Texas, USA, ej (2003) [F3]

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**Karsh, K**, Trull, T, Lourey, MJ, Sigman, DM\*, 'Relationship of nitrogen isotope fractionation to phytoplankton size and iron availability during the Southern Ocean Iron Release Experiment (SOIREE)', *Limnology and Oceanography*, **48** (3) 1058-1068 (2003) [A1]

**Lourey, MJ**, Trull, T, Sigman, DM\*, 'Sensitivity of  $\delta^{15}\text{N}$  of nitrate, surface suspended and deep sinking particulate nitrogen to seasonal nitrate

depletion in the Southern Ocean', *Global Biogeochemical Cycles*, **17** (3) 1081 (2003) [A1]

**Phillips, K**, Nichols, PD, Jackson, GD, 'Size-related dietary changes observed in the squid *Moroteuthis ingens* at the Falkland Islands: stomach contents and fatty-acid analyses', *Polar Biology*, **26** 474-485 (2003) [A1]

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# CRC – Sustainable Production Forestry

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**Eyles, A**, Davies, NW, Yuan, ZQ, Mohammed, CL, 'Host responses to natural infection by *Cytospora* sp. in the aerial bark of *Eucalyptus globulus*', *Forest Pathology*, **33** 317-331 (2003) [A1]

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Mohammed, CL, Wardlaw, TJ\*, Barry, KM, **Eyles, A**, **Wiseman, D**, Beadle, CL, Battaglia, M, Pinkard, EA, Kube, P\*, 'An interdisciplinary approach to the study and management of stem defect in eucalypts', *Abstracts of Invited Papers 8th International Congress of Plant Pathology*, Christchurch, New Zealand, 69 (2003) [F3]

**Rapley, LP**, Potts, BM, Allen, GR, 'Autumn Gum Moth *Mnesampela Privata* (Lepidoptera: Geometridae) Oviposition and Defoliation, and its Relationship to *Eucalyptus Globulus* Foliar Wax Chemistry', *Program and Extracts, 34th Australian Entomological Society/6th Invertebrate Biodiversity & Conservation Combined Conference*, The Corus Hotel, Hobart, Tasmania, 70 (2003) [F3]

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# Earth Sciences

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**Cantrill, RC**, Burrett, CF, 'The Greater Gondwana distribution of the Ordovician conodont *Panderodus nogamii* (Lee) 1975', *Courier Forschungsinstitut Senckenberg*, **245** (1) 407-421 (2003) [A1]

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**Yu, Z**, Norman, MD, Robinson, P, 'Major and Trace Element Analysis of Silicate Rocks by XRF and Laser Ablation ICP-MS Using Lithium Borate Fused Glasses: Matrix Effects, Instrument Response and Results for International

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## Chapter in Book

Kamenetsky, VS, De Vivo, B\*, Naumov, VB\*, **Kamenetsky, M**, Mernagh, TP\*, van Achterbergh, E\*, Ryan, CG\*, **Davidson, P**, 'Magmatic inclusions in the search for natural silicate-salt melt immiscibility: methodology and examples', *Melt inclusions in volcanic systems*, Elsevier, B De Vivo and RJ Bodnar (ed), Amsterdam, 65-82 (2003) [C1]

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**Cromie, PW**, Zaw, K, 'Geological setting, nature of ore fluids and sulphur isotope geochemistry of the Fu Ning Carlin-type gold deposits, Yunnan Province, China', *Geofluids*, **3** (2) 133-143 (2003) [A1]

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# Tasmanian Aquaculture and Fisheries Institute

## Marine Research Laboratory

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**Sumner, MD**, Michael, KJ, Bradshaw, CJA, Hindell, MA, 'Remote sensing of Southern Ocean sea surface temperature: implications for marine biophysical models', *Remote Sensing of Environment*, **84** 161-173 (2003) [A1]

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**Wiggins, NL**, McArthur, C, McLean, SR, Boyle, RR, 'Effects of two plant secondary metabolites, cineole and gallic acid, on nightly feeding patterns of the Common Brushtail Possum', *Journal of Chemical Ecology*, **29** (6) 1423-1440 (2003) [A1]

**Ziegler, PE**, Frusher, SD, Johnson, CR, 'Space-time variation in catchability of southern rock lobster *Jasus edwardsii* in Tasmania explained by environmental, physiological and density-dependent processes', *Fisheries Research*, **61** 107-123 (2003) [A1]

## Book

Ritz, DA, Swadling, KM, Hosie, G\*, **Cazassus, FM**, *Guide to Zooplankton of south eastern Australia*, Fauna of Tasmania Committee, Hobart, 90 (2003) [B2]

### Conference Publication

**Bethge, P**, Munks, SA, Nicol, SC, 'Aerobic dive limit and the organisation of the dive cycle in the platypus *Ornithorhynchus anatinus*', *Monotreme Biology*, Tasmania, 2 (2003) [F3]

**Bethge, P**, Munks, SA, Otley, HM, Nicol, SC, 'Platypus burrow temperatures', *Monotreme III Abstracts*, Sydney, 2 (2003) [F3]

### Thesis

**Chapman, ME**, 'The social behaviour and captive management of Bennett's wallabies, *Macropus rufogriseus rufogriseus*' (2003) [M1]

**Ikonomopoulou, MP**, 'Lactation and thermal energetics of the Eastern barred bandicoot *Perameles gunnii* (Marsupialia: Perameledidae)' (2003) [M1]

**Kusuma Yuni, LPE**, 'Time energy budget of the New Holland honeyeater *Phylidonyris novaehollandiae* (Aves: Meliphagidae) near Hobart, Tasmania' (2003) [M1]

**Meggs, JM**, 'Threatened star beetles in Tasmania's production forests: single-species studies contributing to biodiversity conservation' (2003) [M1]

**Tarbath, DB**, 'Population parameters of Blacklip Abalone (*Haliotis rubra* Leach) at the Actaeons in South-east Tasmania' (2003) [M1]

**Beaumont, KL**, 'Planktonic interactions and particulate flux in Ellis Fjord, East Antarctica' (2003) [M3]

**Kabat, AP**, 'The physiological mechanisms of endothermy in marsupials: Identification of thermogenic abilities and expression of uncoupling proteins' (2003) [M3]

**Nelson, MM**, 'Role of lipids in the diet of cultured and wild rock lobster larvae' (2003) [M3]

**Terauds, A**, 'Population biology and ecology of Albatrosses on Macquarie Island: Implications of conservation status' (2003) [M3]

**Warfe, DM**, 'The role of habitat structure in a freshwater food web' (2003) [M3]

**Welsford, DC**, 'Early life history, settlement dynamics and growth of the Temperate Wrasse, *Notolabrus fucicola* (Richardson 1840) on the east coast of Tasmania' (2003) [M3]

# Research Output 2003

	Total		PhD/Masters		Percentage	
	Items	Weighted	Items	Weighted	Items	Weighted
<b>ARTS</b>						
Art (Hobart)	70	70	29	30.67	41	43
Asian Languages and Studies	20	18.83	1	1	5	5
Conservatorium of Music	13	13				
English, Journalism and European Languages	39	38.5	3	3	7	7
Government	62	58.17	11	10.33	17	17
Government – TILES		1				
History and Classics	47	47.2	6	6	12	12
Philosophy	12	12.5				
Riawunna	12	14				
Sociology, Social Work and Tourism	93	77.78	5	5.64	5	7
Visual and Performing Arts	92	92	24	25	26	27
<b>Sub Total</b>	<b>460</b>	<b>442.98</b>	<b>79</b>	<b>81.64</b>	<b>17</b>	<b>18</b>
<b>COMMERCE</b>						
Accounting and Finance	4	3.33	1	1	25	30
Economics	19	17	2	2	10	11
Information Systems	31	25.25	18	9.08	58	35
Management	27	23.25	1	0.5	3	2
<b>Sub Total</b>	<b>81</b>	<b>68.83</b>	<b>22</b>	<b>12.58</b>	<b>27</b>	<b>18</b>
<b>EDUCATION</b>						
Centre for Research and Learning in Regional Aust	10	5.25				
Education	89	83.66	3	4.11	3	4
<b>Sub Total</b>	<b>99</b>	<b>88.91</b>	<b>3</b>	<b>4.11</b>	<b>3</b>	<b>4</b>
<b>HEALTH SCIENCE</b>						
Anatomy and Physiology	33	14.2	17	1.87	51	13
Biochemistry	15	20.14	8	6.14	53	30
General Practice	8	7.05	1		12	
Human Life Science	34	25.9	2	1.08	5	4
Medicine (Discipline)	63	32.17	5	1.51	7	4
Menzies Centre	36	25.28	4	1.34	11	5
Nursing and Midwifery	25	21.25		1.17		5
Paediatrics and Child Health	3	3.31				
Pathology	10	10.96	3	1.91	30	17
Pharmacy	8	11.77	5	2.98	62	25
Psychiatry	8	5.46				
Rural Health	39	31.23	1	0.33	2	1
Surgery	5	3.18		0.75		23
<b>Sub Total</b>	<b>287</b>	<b>211.89</b>	<b>46</b>	<b>19.07</b>	<b>16</b>	<b>9</b>
<b>INSTITUTIONAL AND OTHER</b>						
Deputy Principal's Division		0.33				
Deputy Vice-Chancellor's Division		0.12				
Other University Areas		0.33				
<b>Sub Total</b>		<b>0.79</b>				
<b>LAW</b>						
Law	72	66.79	1	4	1	5
Law Reform Institute	7	7				
<b>Sub Total</b>	<b>79</b>	<b>73.79</b>	<b>1</b>	<b>4</b>	<b>1</b>	<b>5</b>
<b>SCIENCE AND ENGINEERING</b>						
Agricultural Science	220	76.33	64	23.49	29	30
Architecture	21	18.83				
Australian Food Safety Centre of Excellence		1.42				
Central Science Laboratory	6	4.84	2		33	
Centre for Ore Deposit Research – CODES SRC	37	20.95	13	5.12	35	24
Chemistry	60	40.59	24	10.78	40	26
Computing	29	24.67	11	4.67	37	18
CRC – Antarctic and Southern Ocean Environment		1.95		0.45		23
CRC – Antarctic Climate & Ecosystems		2.7				
CRC – Sustainable Production Forestry		11.47		2.67		23
Earth Sciences	10	5.67	2	1.46	20	25
Engineering	39	34.54	12	6.23	30	18
Geography and Environmental Studies	177	148.26	46	38.57	25	26
IASOS	35	18.86	15	6.76	42	35
Mathematics	25	16.92	2	1.5	8	8
Mathematics and Physics		2.11				
Physics	14	7.84	3	0.5	21	6
Plant Science	71	57.29	15	6.59	21	11
Psychology	73	60.38	32	27.87	43	46
TAFI – Aquaculture	99	77.77	47	23.55	47	30
TAFI – Fish Health Unit	2	3.14	1	0.33	50	10
TAFI – Marine Research Laboratory	74	64.04	8	2.25	10	3
TAFI – Zoology	7	5.62	3	3.2	42	56
Tasmanian Institute of Agricultural Research		75.54		5.99		7
Zoology	63	44.53	35	16.78	55	37
<b>Sub Total</b>	<b>1062</b>	<b>826.26</b>	<b>335</b>	<b>188.77</b>	<b>31</b>	<b>22</b>
Flexible Education Unit	5	4.17				
<b>Sub Total</b>	<b>5</b>	<b>4.17</b>				
<b>TOTAL</b>	<b>2073</b>	<b>1717.62</b>	<b>486</b>	<b>310.18</b>	<b>23</b>	<b>18</b>