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At Southern Cross University we enjoy an international reputation for the strength of our research achievements. In 2005 we set ourselves the ambitious target of becoming the most research-intensive regional university in Australia within five years. I am pleased to say we are well on our way.

In fields such as Natural Plant Products and Environmental Science we have no equal, embodying our commitment to regionally relevant and internationally significant research. As well as supporting existing areas of excellence Southern Cross University broke new ground in 2005. The Australian Regional Tourism Research Centre, the Centre for Cultural Diversity and Social Justice, the Centre for Children and Young People and the Aged Services Learning and Research Collaboration exemplified the diversity of our achievements.

Two further indicators of our success have been the level of our Co-operative Research Centre funding, with Southern Cross University now placed seventh out of all universities in Australia, and ranked second compared with other regional universities for ARC Linkage grants - remarkable achievements indeed.

Throughout 2005 our young researchers made their mark, with Southern Cross University PhD student Samia Goudie securing a Fulbright scholarship for her work into Indigenous trauma and grief and Louis Bradbury awarded best student by the Co-operative Research Centre Association for his work into the genetics of rice.

Finally at a regional level the University undertook research which helped our communities to better understand themselves and to inform decision-making for the future.

I commend this Research Report to you.

Professor Paul Clark
Vice-Chancellor
Pro Vice-Chancellor, Research,
Professor Peter Baverstock

The year 2005 saw Research and Research Training income to Southern Cross University exceed $15 million. This is a clear indication of its significance as a component of the total income and staffing of Southern Cross University.

Moreover, analysis has shown that around two thirds of the Research and Research Training that we do is directly relevant to our region, thereby contributing to its social, economic and environmental wellbeing.

This report highlights the range of research and research training being conducted at Southern Cross University. More detail of our activities is provided in this CD, which provides a full listing of the publications by staff, research grants received, and Higher Degree Research (HDR) topics being conducted. This CD will prove useful for new staff, and for potential HDR students seeking postgraduate supervision in their specific area of interest.

The Research Outcome graphs illustrate Southern Cross University’s continued building of its Research and Research Training strengths.

In 2005, research was conducted and postgraduate research supervision was available in the following Divisions.

Division of Arts

Arts

- **Contemporary music**: Composition, performance and musicology.
- **Visual arts**: Studio inquiry (ceramics, drawing, painting, printmaking, sculpture).
- **Humanities and Cultural studies**: Ecocultural studies, Asia Pacific cultures, gender and queer studies, creative writing, regional and identity studies.
- **Media studies**: Media and cultural policy, new media, global media and culture, internet studies, audio/visual production, scriptwriting and other media production.

**Education**: Teaching/learning literacy, mathematics, ICT, science, design technology, music, PDHPE, SOSE/HSIE, environmental education, special education, behaviour and learning management, teacher identity, resilience and mental health education, school/family partnerships, educational leadership/change, policy studies, higher education studies.

**Law and Justice**: Criminal law, criminology, victimology, Indigenous peoples and the law, cross cultural studies, corporations law, environmental law, human rights, international law, constitutional law, mediation and dispute resolution, university law, education law, children and the law.

**Multimedia and Information Technology**: Computer-enhanced learning, human-computer interaction, 3D interfaces, mobile computing and its applications, mobile commerce, m-health, information management, multimedia systems, video coding, educational multimedia, information retrieval, e-business technologies and application, IT/IS adoption, software development, and Web engineering.

**Psychology**: Ageing, psychopharmacology, depression, tinnitus, health psychology, vision, perception, skin cancer detection, music and emotion, visual neglect, vision in aquatic mammals, learning, stimulus equivalence, gambling, theories and systems of systems of psychology, memory, theories of classification, Lattice Theory, Sternberg’s Additive Factors Method, refugees, migrants, social identity, organ donation and transplantation, Social Representations theory, seasonal affective disorder, psychophysiology, stress, sleep.

Division of Business

**Commerce and Management**: Accounting, finance, banking, professional practice, economics, regional development, mathematics, corporate and small enterprise entrepreneurship, family enterprise dynamics, statistics, marketing, management including strategic and international management, retailing and e-tailing, sales process evaluation,
Supply chain management and corporate governance.

**Social Sciences**: Sociology, politics, management, human resource management and development, leadership, vocational education, training and organisational development, internet and online studies, working in multicultural contexts, global diversities in international politics and peace and conflict.

**Graduate College of Management**: Accounting and finance, action learning and research, entrepreneurship, international business, management competencies, marketing, organisational behaviour, quality management, regional development, small business development, strategic management, management information systems, leadership.

**Tourism and Hospitality Management**: Conventions, meetings and exhibition management, cruise tourism, employee relations (human resource management and industrial relations) in tourism and hospitality, events management, gambling management, impacts and policies, gender issues in tourism, historical and cultural tourism, hotel and hospitality management, Indigenous tourism, marketing for tourism and hospitality businesses and for tourist destinations, operational and strategic management for businesses and destinations involved with tourism and hospitality, regional tourism development in Australia and Asia Pacific, sense of place in relation to tourism and hospitality, special interest tourism, sustainable tourism development.

**Division of Health and Applied Sciences**

**Environmental Science and Management**: Natural resource management, coastal management, environmental science, fisheries and aquaculture, environmental geochemistry, geographic information systems, sedimentology, soil science, subtropical forestry, conservation biology, waste management, coral biology and marine ecology, environmental archaeology, molecular evolutionary studies of animals, cultural heritage management.

**Exercise Science and Sport Management**

**Exercise Science**: Exercise and cardiorespiratory function, exercise and neuromuscular function, nutritional supplements and drugs, exercise rehabilitation for special populations (obese, cardiac and peripheral vascular patients, chronic fatigue syndrome), exercise and Ageing, exercise and immune function.

**Sport Management**: Sport marketing, sport sponsorship, organizational change and effectiveness, sports law, sport policy and governance.

**Natural and Complementary Medicine**: Basic and clinical research in complementary and alternative medicine, botanical medicine, phytotherapy, herbal pharmaceutics, pharmacognosy, pharmacology of natural products, toxicology, tactile therapy, human nutrition, public health in complementary medicine, homoeopathy.

**Nursing and Health Care Practices**: Acute care, critical care, maternal and infant care, midwifery, developmental disability, aged care, mental health, community health, leadership and management, legal, ethical and professional issues, biological sciences, pharmacology, social and behavioural sciences, holistic health, acupuncture, holism, women's health, women's studies.

**Gnibi – the College of Indigenous Australian Peoples**: Indigenous conflict management; Indigenous law, Indigenous environmental management, individual family and community trauma, violence, healing/health/wellbeing, social and emotional wellbeing in family and communities; governance and community capacity building; race and racism, early childhood education; early prevention needs; resilience/resonance.
Centres

**Plant Conservation Genetics:** Plant and animal population genetics, plant molecular biology, molecular analysis of plant genetic resources, molecular plant breeding, molecular evolutionary studies of plants.

**Teaching and Learning Centre:** Epistemology, higher education policy and student learning.

**Centre for Children and Young People:** Interdisciplinary approach, research, education and advocacy for children and young people, emphasis on cross-sectoral partnerships to promote evidence-based policy and practice, participation of children and young people in research.
Research Highlights

Professor Paul Thom, Executive Dean of Arts concluded work on his ARC-funded project *The logical theories of Robert Kilwardby*. As part of the project he visited Dr Henrik Lagerlund (University of Uppsala). He finished work on his book *Logic and Ontology in Robert Kilwardby*. He also read a paper to the annual colloquium ‘Aristotelian Logic East and West 500-1500’ at the University of Cambridge.

He was awarded ARC funding for the 3-year project *The reception of Aristotle’s Categories in the Byzantine, Arabic and Latin traditions*, together with co-researchers Dr John Marenbon and Dr Tony Street (both from Cambridge University) and Professor Sten Ebbesen (University of Copenhagen).

The Centre for Law, Politics and Culture changed its name to Centre for Cultural Diversity and Social Justice in 2005 reflecting its aims and core values. The Centre has over 25 postgraduate students, a bi-monthly email bulletin, and hosts monthly seminars. The Centre hosted a regional conference ‘Out of the spotlight: citizenship and participation of people with disability in regional and rural areas’ attracting 135 delegates from over 40 community, governmental, educational and non-governmental organizations. Its Patron, the Hon. Justice Michael Kirby opened the conference chaired by Dr Gerard Goggin, ARC Australian Research Fellow and former academic staff member of SCU.

**Humanities, Media and Cultural Studies**

Dr Baden Offord was Visiting Professor at the Centre for Australian Studies at the University of Barcelona in November and December where he taught a PhD program on the subject of ‘identity and culture’.

Dr Offord’s book, *Homosexual Rights as Human Rights* (Peter Lang: Oxford & Berne, 2003) won the prestigious George Duncan Memorial Award for 2005 for “pioneering and groundbreaking research”. This award is for research on homosexuality in Australia and hosted by the University of Adelaide.

Dr Offord was a member of the International Advisory Committee for the ‘Sexualities, Genders, and Rights in Asia’ at the 1st International Conference of Asian Queer Studies, hosted by the Office of Human Rights, Mahidol University, Bangkok, and Research School of Pacific and Asian Studies, Australian National University. The Conference took place in July.

Dr Offord gave a keynote presentation at a Roundtable on ‘Creativity, Place & Growth’, hosted by the Northern Rivers Regional Development Board, SCU and CLIC Network Inc, in August. He also established the Point of View Seminar (POV) 2005 with a panel on ‘The purpose of University’ including the Vice-Chancellor, Professor Jim Jackson, Associate Professor Sharon Parry and Professor Judy Atkinson. This seminar is available as a DVD from the SCU library.

A major landmark was the publication of Dr Rebecca Coyle’s anthology *Reel Tracks: Australian Film Music and Cultural Identities*, Eastleigh UK: John Libbey, 2005. This included Dr Coyle’s introduction titled ‘Film Music Mnemonics: Australian Cinema Scores in the 1990s and 2000s’ and her chapter titled ‘Untangling Lantana: A Study of Film Sound Production’. The book received excellent reviews and now used as a textbook for a number of film study courses.

In November, Dr Coyle was appointed Associate Editor for the Australasia region for ‘Convergence: the International Journal of Research into New Media Technologies’ based in UK and now published by Sage.

Dr Susan Bradley-Smith received a SCUCRGS grant for a research project: ‘Enhancing GP Welfare through the Medical Humanities: The Use of Reflective Writing in Medical Education and Practice’.

**Visual Arts**

Visual Arts staff and students were very active with exhibitions, prizes, festivals and publications. Associate Professor Jan Davis had an individual exhibition entitled *Folio/foliate* at the Grafton Regional Art Gallery and exhibited as follows: Bookscapes, Port Jackson Press, Fitzroy (curated exhibition of artists’ books); Reflexions, Lismore Regional Gallery (staff exhibition); Afterprint, Piece Gallery, Mullumbimby (curated exhibition of artists using new print technologies); Art on Paper Fair, Fox Studios, Sydney and presented a short paper on her work at *Script*, the associated forum,
Lismore Regional Art Gallery (curated touring exhibition funded by a grant from Museums NSW); *Sampling 2*, Next Gallery @ Byron (staff exhibition); and the Jacaranda Drawing Prize exhibition, Grafton Regional Art Gallery (curated touring exhibition).

Leonie Lane designed and consulted on the completed panels for the first Wilson River Experience Walk site, *Gathering Place – Burbang Mah* officially opened to the public in September. The Wilson River Experience Walk project is an ongoing large-scale public art project based in Lismore involving local history research, community liaison and the design of six different story sites positioned along a five-kilometre walkway on the banks of the Wilsons River. Leonie Lane delivered a refereed paper ‘Investigations of ‘Place’ the Wilsons River: Personal and Public Investigations’ at the ‘artists, designers and creative communities’ Australian Council of University Art and Design Schools (ACUADS) conference in September. Hers was a site-specific MA exhibition *(un)folding: landscape and identity* installed at the Old School site at Clunes, in December.

Fiona Fell participated in a number of international and national art events. In July she presented at the Fragmented Figure Conference, Cardiff University, Wales, and participated at the International Ceramic Festival Aberystwyth, Wales. She had a solo exhibition *Snoring for your Smile*, at the Michael Fox Gallery in Brisbane in September. In October she created a video Installation work with Raimond DeWeerdt at Charles Sturt University. She exhibited ‘The Dammed’ at the Lismore Regional Gallery and published *Eventual BodieSpaces* in the Interpreting Ceramics online-refereed journal, www.interpretingceramics.com.

John Smith exhibited at group showings in Melbourne, Sydney and the northern rivers and staged a major solo exhibition entitled *Slow Readers* at Legge Gallery in Sydney. Smith’s Industry Partnership research project with the City of Botany Bay is engaged with cultural heritage retrieval and creative arts interfaces. A component of the project won the 2005 Drawing Australia: Innovative Drawing Award administered through Macquarie University. The exercise with primary school children had its focus on Botany Bay in the past and current pollution problems. The exercise repeats with the same children in five years. John provided papers on his Fisherman’s Village project at two conferences: The Poetics of Australian Space: Sydney University and the Art Gallery of NSW in February; and at the Australian Council of University Art and Design Schools Conference in Perth.

Anita Hochman won the Fondation Tenot Award and awarded a Studio Residency at Centre d’Art Marnay (CAMAC), Marnay-sur-Seine, France. In addition she participated in exhibitions including *Reflexions* at the Lismore Regional Art Gallery; *Sampling* at the Next Contemporary Art Space, Byron Bay; and *Summer Show* at the Byron Bay Community Centre.

Shelagh Morgan participated in a number of group shows and held a major solo exhibition in Sydney entitled *Five Nights in June*.

PhD student Ruth Park exhibited at Inner City Clay Workers Gallery in Sydney, the Currumbin Sculpture Festival, Caloundra Regional Gallery and at the 10th East Coast Sculpture Show in Ballina.

**Contemporary Music**

Contemporary Music staff members were involved in national and international performances and the writing of original music publication of research papers.

Associate Professor Jon Fitzgerald co-wrote a paper entitled ‘Chosen and adopted: Fred Eaglesmith, female appreciation and Australian country music’ with Professor Philip Hayward for the Colonial Distances: the Study of Popular Music in Canada and Australia Conference, St Johns, Newfoundland. The subject was Canadian artist Fred Eaglesmith’s influence on Australian country musicians and the article published in the Toronto Star (Quill 2005) and became the subject of considerable online discussion with, and among Eaglesmith fans. Quill noted the impact of Australian research in promoting the study of this neglected Canadian artist, “Chuckling at the irony, Port Dover-based roots rocker Fred Eaglesmith is still humbled to have been the subject of a paper delivered last week at an international conference of music and pop culture academics in Halifax. The irony
is that Eaglesmith, the renegade independent troubadour, whose 20-year career and dozen recordings have been virtually ignored by both mainstream media and the music business in his own country and is regarded as a profoundly important artist in other parts of the world."

Associate Professor Fitzgerald’s composition Kite Breeze (co-written with staff members Peter Martin and Jim Kelly) received three months of high rotation airplay on Japanese radio.

Associate Professor Michael Hannan co-wrote two papers with Dr Rebecca Coyle (details above). He wrote and performed a number of new piano compositions including Hommage à Satie, Mozart Minimalised, and Improvisables I-IV. His Magnae Rotae for 4 hurdy gurdies was released on La Langue Sauvage performed by Barb Dwyer. Associate Professor Hannan was an active reviewer for the journal Music Forum.

Jim Kelly performed concerts at the Brisbane Valley Jazz Festival, the Inaugural North Coast Jazz Festival, Bangalow, the Samford Jazz Festival, the Kingscliff Jazz Festival, the Rockhampton Jazz Festival, the Judith Wright Centre in Brisbane. He also performed on the Foxtel television program Beauty & the Beast.

Dr Annie Mitchell presented a paper entitled ‘In Search of the Lost Chord: Reclaiming the Element of Harmony in Contemporary Music’ to the XXVIIth Australian Association for Research in Music Education (AARME) Annual Conference in Sydney. This paper was published in the refereed Conference Proceedings. Dr Mitchell received an IRG grant for the composition and arrangement of four SCU Big Band concerts and performed as bassist with the North Queensland Philharmonic Orchestra and the Lismore Symphony Orchestra.

Leigh Carriage attended the Post-colonial Distances Conference in Newfoundland, Canada and presented a paper ‘The Waifs and The Be Good Tanyas’ two emerging contemporary folk trios treading parallel careers. Ms Carriage performed concerts at the Inaugural Bangalow Jazz Festival and at the Summer of Music Festival in Ireland.

PhD student Barry Hill was involved in various high-profile, original performances of ‘live electronica’ at the Spanish Festival and the Sydney Opera House performance with The Bird.

**Theses Approved**

**Honours**

**Bachelor of Visual Arts with Honours**
- Matthew James O’Brien (Second Class Honours, Division I) Intermezzo of Experience: Re-territorialising space.
- Jan Oliver (First Class Honours) Flood of Memories - Journeying With Loss.
- Jason Michael Rogers (Second Class Honours, Division I) Be Sure To Tell Mum……...Satan.
- Gregory Lee Wilding (First Class Honours) “ShangriLinga”

**Bachelor of Arts with Honours**
- Megan Oliver De Winter Brinsmead (Second Class Honours, Division I) Real Mothers’: The Celebrated Maternal Hero.
- Alison Craig Watts (First Class Honours) Meet Your Usherette for this Evening: Miss Chief (website + WattsHerArt Blog)
- Lainie Yvette Jones (First Class Honours) Dancing on the Bridge: A Memoir.
- Nicholas Mattingly (First Class Honours) ‘The Global Sugar Frontier in the Northern Rivers: an eco-cultural history’
- John Norman McPherson (Second Class Honours, Division I) Thomas Wills, Marn Grook and the Great Australian Silence.
- Bianca Pizzol (Second Class Honours, Division I) Who is the Cosmo Man? How to recognise what he is (and what he is not): representations of men in Cosmopolitan magazine.
School of Arts
Humanities, Media and Cultural Studies,
Visual Arts and Contemporary Music

Research Funding

<table>
<thead>
<tr>
<th>ARC Discovery</th>
<th>2005</th>
</tr>
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<tr>
<td>Thorn, P</td>
<td>$20,898</td>
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<tr>
<td>The logical theories of Robert Kilwardby.</td>
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<tr>
<td>CRG and City of Botany Bay Council</td>
<td></td>
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<tr>
<td>Smith, J.</td>
<td>$10,000</td>
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<tr>
<td>Fishermen’s Village.</td>
<td></td>
</tr>
<tr>
<td>CRG and North Coast GP Training Ltd</td>
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<tr>
<td>Bradley-Smith, S.</td>
<td>$27,000</td>
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<tr>
<td>Enhancing GP wellbeing through the medical humanities.</td>
<td></td>
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<tr>
<td>Other C’wealth Gov Funding</td>
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<tr>
<td>Department of Veteran’s Affairs</td>
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<tr>
<td>Wessell, A</td>
<td>$3,000</td>
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<tr>
<td>Oral history of veterans’ World War II experiences.</td>
<td></td>
</tr>
</tbody>
</table>

Publications

Books
- Coyle, R. anthology Reel Tracks: Australian Film Music and Cultural Identities, Eastleigh, UK: John Libbey.
- Fitzgerald, J., ‘Troy Cassar-Daley and the sensitive touch’, in Evans,

Conferences
- Bradley-Smith, S., ‘Patient as teacher, self as teacher: Creative writing as therapy in
the doctor/patient relationship and narrative interpretations of practice’, Association for Medical Humanities conference, ‘Metaphors for Practice: the Art of Healthcare’, 10-12 July, Truro, Cornwall, UK.


Hannan, M ‘Towards the development of a curriculum for contemporary musicianship’ in de Vries, P. Australian Association for Research in Music Education: Proceedings of the XXVIth Annual Conference, Sydney: AARME.


Journals


Bradley-Smith, S., ‘Gendering Creativity and Accountability: Teaching “Writing for Performance”’, Writing in Education, No 37, Autumn.


Research Highlights

The School’s major research activities comprise those conducted through its two research centres as well as individual staff projects. The School had approximately 40 research degree candidates, mainly at doctoral level.

The Centre for Children & Young People (CCYP)

CCYP continued to expand its research and evaluation activities.

• Four new PhD scholarships awarded, two of which were co-funded by external organisations. Seven doctoral candidates are now under the auspices of the CCYP. Topics include children’s experiences of supervised contact, mental health issues in schools, grandparents raising grandchildren and educational issues for children and young people in out of home care.

• Eight new project planning and/or evaluation consultancies were secured with regional organisations. They addressed a range of issues affecting children and young people. They include: improving children’s academic achievements and personal development; improving children’s mental wellbeing; improving children’s physical and emotional safety in school; understanding the spiritual development of children & young people; increasing young women’s awareness and support around unhealthy relationships; and improving school students’ (and their parents’ and teachers’) life and relationship skills and awareness of relevant community and health services.

• Work continued on three ongoing research consultancies funded under the Commonwealth’s Stronger Families and Communities Strategy: the Lismore Communities for Children program, the Goonellabah Transition Program and the Lismore & Alstonville Parent Support Program. A consultancy with Coffs Harbour Uniting Care Burnside, to improve the Punjabi community’s access to early childhood support services, was completed.

• Three key collaborative research projects continued:

  Technology Together [ARC Linkage grant (2004-07)]. Chief investigators are Dr Renata Phelps and Associate Professor Anne Graham in partnership with the Catholic Education Office, Lismore Diocese. The research project is determining the effectiveness of the meta-cognitive approach in supporting teachers’ professional development in ICT in a whole-school context and developing and refining practical approaches to schools’ implementation of the approach. Seven schools participated in the first cycle of the research.

  Children’s Perspectives on Rights, Responsibilities & Citizenship. This cross-cultural and cross-generational study, in conjunction with the Childwatch International Research Network, is exploring children and adults’ perspectives about what constitutes good citizenship and influences nation building. The international study involves South Africa, New Zealand, Brazil, the United Kingdom, Middle East and the United States. The CCYP team is Associate Professor Anne Graham, Dr Brad Shipway, Ms Robyn Fitzgerald and Ms Jenni Whelan.

  The Spiritual and Religious Development of Young People in Catholic Schools in the Lismore Diocese: A Longitudinal View. Key investigators are Dr Brad Shipway and Associate Professor Anne Graham, with Dr Richard Rymarz (Australian Catholic University) and staff from the Catholic Education Office, Diocese of Lismore. Under exploration are factors shaping and influencing the religious and spiritual lives of young people, aged 12-17 years currently enrolled in Catholic schools in the Lismore Diocese. A replication study in Ireland (Investigator: Dr David Touhy) will enable cross-cultural comparisons.

The Desert Knowledge CRC (DKCRC)

DKCRC was engaged in numerous field and scoping activities. A research team including staff from the CSIRO, the Northern Territory Government, Central Land Council and the Centre for Appropriate Technology Inc. Alice Springs scoped the development of sustainable investment in desert communities for extending the lifecycle of housing and hardware transferred to them. Matthew Pamell completed fieldwork under the guidance of
Invited Presentations/Participation

Associate Professor Anne Graham made presentations to the Childwatch International Network at the University of Oslo in June.

Associate Professor Keith Skamp, Visiting Professor at Durham University from February to June, gave research seminars on teachers’ uses of learnscapes at the universities of Bath and Durham in England and Strathclyde in Scotland.

Jennifer Gidley gave invited keynote international conference presentations, related to her CCYP doctoral studies, at Tamkang University and the Academica Sinica in Taiwan. Jennifer, with Gary Hampson, also a CCYP doctoral candidate, spoke at the Annual International Convocation of the Integral Education Centre, in Boulder, Colorado in August and invited to give keynote presentations at the Community for Integrative Learning and Action, a research initiative of the University of Massachusetts, Amherst in October.

Other Milestones

Brian Kean re-elected to the Board of Directors for the International Centre for the Study of Psychology and Psychiatry, NY, NY. 2005-2008.

Keith Skamp continued as a member of the international editorial board of the journal Research in Science Education.

Robert Smith continued work on a history of Lismore, and commenced work editing a history of Brown and Hurley, a regional business.

Visiting Scholars

Four scholars completed sabbaticals with the School.

Ms Grete Jamissen spent most of 2005 in the School, while on leave from Oslo University College. She worked on a report: Pedagogical Implementation of ICT in Schools, and a book: ICT and Lifelong Learning. Her co-researchers were Professor Anne Graham and Dr Renata Phelps.

Other Projects

Associate Professor Bob Wright was Chief Investigator on the Australian Research Council funded Linkage project: Intervention in the Number Learning of Low-attaining 3rd- and 4th-Grade Students. The Industry Partner is the Catholic Education Office, Melbourne. The project has involved working with an intervention teacher in each of eight primary schools in Victoria. Each teacher’s work included intensive intervention teaching of six low-attaining students.

Professor Martin Hayden was invited by the World Bank to act as a higher education consultant to the Ministry of Education and Training in Vietnam. The work involved the development of proposals for the renewal of Vietnam’s legislative and regulatory environment for higher education.

Associate Professor Keith Skamp led research for a Commonwealth Department of Environment & Heritage funded project: Air Quality Education: Effective Programs. Working with staff from the Australian Research Institute for Environmental Sustainability at Macquarie University, critical success factors associated with more effective air quality and community education initiatives were identified.
Associate Professors Kourosh Fathi Vajargah, from the National University of Iran, and Liang Weige, from Hebei University in China joined the School late in 2005 to work on projects with Professor Martin Hayden. Professor Vajarah is a specialist in the field of higher education curriculum, and Professor Weige’s expertise is in adult education and TESOL.

Professor Dale Burnett, from the University of Lethbridge in Canada spent time in the School early in 2005. His area of interest is the application of communications technology in support of student learning.

Awards, Distinctions, Prizes

Dr Brian Kean received an Award for Outstanding Educational Research for the doctoral dissertation *The Risk Society and Attention Deficit Hyperactivity Disorder (ADHD): A critical social research analysis concerning the development and social impact of the ADHD diagnosis* from the New South Wales Institute for Educational Research.

Doctoral candidates, Jennifer Gidley and Gary Hampson appointed as Honorary Research Fellows at the Global Dialogue Institute, Haverford College, Philadelphia.
## Research Funding

### ARC Linkage

<table>
<thead>
<tr>
<th>Researcher(s)</th>
<th>Project Title</th>
<th>Funding ($)</th>
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<tr>
<td>Wright, B</td>
<td>Intervention in the number learning of low-attaining 3rd- and 4th-graders.</td>
<td>189,784</td>
</tr>
<tr>
<td>Phelps, R &amp; Graham, A.</td>
<td>Meta-cognitive influences on teachers’ use of information and communication technology (ICT) and the implications for teacher professional development.</td>
<td>113,890</td>
</tr>
</tbody>
</table>

### Public Sector Research Funding

- **NSW Department of Education and Training**
  - Seeman, K. | Research discussion papers. | 1,340 |
  - Yeigh, T. | Supporting PhD study on information processing and instructional design: a look at the role of cognitive inhibition. | 10,000 |

- **Department of Community Services**
  - Graham, A. | Investigating outcomes of children and young people in out of home care. | 12,500 |

- **C’Wealth Dept of Environment and Heritage through Macquarie University**
  - Skamp, K. | Air quality education. | 14,224 |

### Industry and Other Funding for Research

- **Ballina Byron Family Centre Inc.**
  - Graham, A. | 7,000 |
- **Catholic Education Office, Lismore.**
  - Graham, A. | 8,624 |
- **Community Health Education Groups Inc. (CHEGS).**
  - Graham, A. | 15,000 |
- **Family Centre Community Projects.**
  - Graham, A. | 4,370 |
- **Northern Rivers Division of General Practice.**
  - Graham, A. | 7,273 |
- **North Coast Area Health Service**
  - Graham, A. | 2,000 |
- **YWCA Lismore.**
  - Graham, A. | 7,804 |
- **YWCA - Evaluation of YWCA Lismore Communities for Children project.**
  - Graham, A. | 40,582 |
- **YWCA NSW.**
  - Graham, A. | 5,000 |
- **UnitingCare, Burnside.**
  - Wright, B. | 10,850 |
- **Mathematics Recovery Research.**
  - Hammond, J. | 57,887 |
- **Lawn Tennis Association of Australia.**
  - Hammond, J. | 4,000 |
- **TAFE NSW (North Coast Institute).**
  - Phelps, R. | 7,250 |
- **Catholic Education Office.**
  - Graham, A. | 2,032 |

### Lismore City Council, Dept of Community Services NSW, Family Support Network Inc.

- Whelan, J. | Evaluation of domestic violence kids club project. | 4,455 |

### Desert Knowledge Cooperative Research Centre

- **Developing lifecycle models for sustainable investment in desert communities: I. Scoping and prototyping systems.**
  - Seemann, K. | 137,502 |
- **Postgraduate scholarships.**
  - Seemann, K. | 13,750 |
Publications

**Book Chapters**


**Journals**


Smith, R. J. Swinging the swag: Warren Fahey A.M. today, fair dinkum. *Australian Folklore*, 20, 27-34.


**Conferences**


Matang, R.A. Formalising the role of Indigenous counting systems in teaching the formal English arithmetic strategies through local vernaculars: An example from Papua New Guinea. In P. Clarkson, A. Downton, D. Gronn, M. Horne, A. McDonough, R. Pierce & A. Roche (Eds.), *Building Connections: Research, Theory*
School of Education

and Practice: Proceedings of the 28th annual conference of the Mathematics Education Research Group of Australasia, (pp. 505-512). Sydney: MERGA


Other presentations


Doromovolo, J. & Hammond, J. A School of Education during civil unrest: A Solomon Islands Experience. NZARE Conference, December, Dunedin.


Gidley, J. Global soul, global mind and global action - Futuring from survival to thrival. International Conference, Tamsui Campus, Tamkang University, Taipei.

Gidley, J. Transcending boundaries. Academica Sinica, Taiwan.

Gidley, J., & Hampson, G. Integral Education: an Integrative perspective. Invited Keynote, Community for Integrative Learning and Action, University of Massachusetts, October, Amherst.


Hammond, J. Towards a Dynamic Systems Model of Developmental Coordination Disorder. 10th National Conference of the Association for the Welfare of Child Health, August, April, Sydney.


Reports

Research Highlights

The Year saw academic staff and postgraduate students actively engaged in research and publishing widely. A number of staff obtained research grants and presented their research at international and national conferences.

Sam Garkawe gave plenary addresses at two important international conferences:

• The Eleventh United Nations Congress on Crime Prevention and Criminal Justice in Bangkok, Thailand. In Bangkok, Sam spoke about the need to provide justice and support to the victims of terrorism. Sam also gave papers at ancillary meetings on ‘The Need for a Victims Convention’ and ‘Comments on the guidelines developed for Child Victims’.

• Judging Nuremberg: The Laws, The Rallies, The Trials in Nuremberg, Germany on 17 July. In Nuremberg, Sam was an invited plenary speaker on the topic ‘The Role and Rights of Victims at the Nuremberg International Military Tribunal’.

Professor Stanley Yeo published three books. They were: Australian Criminal Justice, co-authored with Findlay, M, & Odgers, S. Criminal Defences in Malaysia and Singapore Criminal Defences in Australia, co-authored with Fairall, P.

Visiting Scholars

Sam Garkawe was the Visiting Professor for the Whittier Law School Summer Abroad Program in Tel Aviv, Israel: He taught a course entitled ‘Human Rights in the Age of Terrorism’ in July.

Sam was invited by Intervict, a victim research institution at Tilburg University, The Netherlands, to be on a Committee of Experts drafting a Convention on Victims of Crime, Abuse of Power and Terrorism, 12-15 December 2005.

Sam was also invited to join a committee formed to award the Law Firm University Scholarship from Stacks Law firm for 2005-2006.

Legal Scholarship Support Fund Grants 2005

Robyn Fitzgerald (Postgraduate Student of the School)

Project Title

“Analysis of the effectiveness of Australia’s implementation of article 42 of the Convention on the Rights of the Child in the context of school-student’s understanding of their rights and responsibilities”.

Brief Description

Data collected by the applicant (as part of a team of researchers) for an international study of young people’s and adults’ perspectives on citizenship in eight countries in various stages of democratic development. Research revealed that Australian students (compared to the International cohort) have a very poor understanding of both their actual rights and the rights accorded to them by the Convention on the Rights of the Child (CROC). This project will further analyse the data in terms of the way young Australians construe notions of ‘rights and responsibilities’ and the role that parents and teachers play in promoting ‘good citizenship’ and rights education to their children to target education that addresses both Australia’s International obligations and the needs of young people for information about their rights and responsibilities.

A paper will be submitted focusing on the extent to which Australia is realising its implementation obligations in relation to CROC to a refereed Journal.

Richard Harris (Lecturer Level C)

Project Title

“Child and Youth Participation: a critical evaluation of Australia’s obligations and achievements in the implementation of article 12 of the Convention on the Rights of the Child in the context of regional youth”.

Brief Description

The project will scrutinize the effectiveness of Australia’ implementation of Article 12 of the Convention on the Rights of the Child (CROC) in the context of regional NSW and to analyse the causes of, and potential remedies for, the disjunction between discourses of children’s rights an the practical implementation of those rights.
Loretta Kelly (Lecturer Level B)
**Project Title**
Editorial assistance to enable completion of Loretta Kelly’s PhD thesis: “Alternative Dispute Resolution in Regional and Rural Aboriginal Communities: Native title and family conflict”.

**Brief Description**
Editorial assistance will permit Kelly’s PhD thesis to have broader relevance than the textbook on which it is based, Kelly L. & Behrendt L., Aboriginal Dispute Resolution 2nd edition: A Native Title Focus (Working title), Federation Press, (forthcoming). The text contains views of co-author, Larissa Behrendt, with which Kelly does not necessarily concur. Therefore, this material will undergo re-working. In addition, Kelly’s thesis will expand on material that was not the focus of the text (family conflict), as well as material not included in the text (domestic violence).

John Orr (Postgraduate Student of the School)
**Project Title**
“A comparative study into the regulation, use, and operation of commercial activity by universities in Australia and Europe”.

**Brief Description**
The aim of this research is to compare the use, operation and regulation of commercial activities carried on by universities in Australia and Europe. The research will identify similarities and differences between the manner in which Australian and European universities regulate and in their use and operation of commercial activity and focus on identifying potential areas that may inform and benefit one system from the other.

Nicole Rogers (Lecturer Level B)
**Project Title**
“Research into political theatre and the law.”

**Brief Description**
The aim is to collect and compile material, in the form of books, plays, journal and newspaper articles and internet resources, and to conduct interviews, in order to look at the importance of performance and theatre in the legal academy and courtroom, and to address the question of whether the performative aspects of law and legal education constitute political theatre.

Kathy Stavrou (Postgraduate Student of the Law School)
**Project Title**

**Subtitle**
“Regional Case Study: the impact on the civil and property rights of Northern Rivers Aboriginals”.

**Brief Description**
Obtaining copies of NSW Acts that refer directly to Aboriginal people, or have the direct effect of identifying, defining, and consequently extinguishing Aboriginal civil and property rights. The project will focus on the actions of the NSW State Government, and in a local context, the Lismore City Council, with reference made also to relevant Commonwealth Acts, with the aim of exposing the continuing role of the State in the destruction of Aboriginal civil and property rights.

Helen Walsh (Lecturer Level A)
**Project Title**
“An investigation of Licensed Conveyancing Practitioners following the ending of solicitors’ monopoly in conveyancing in NSW”.

**Brief Description**
It is 12 years since the NSW Government’s decision to allow licensed conveyancers to compete with solicitors to act for clients in conveyancing matters. The NSW Government intends to hold a review of licensed conveyancers’ activities and the enabling legislation. As one of only three institutions in NSW which have permission to educate students to be licensed conveyancers, it is imperative that SCU’s School of Law and Justice investigate how the system is working. The School will be expected to make a major submission to the Government’s review of the practice of licensed conveyancers. A survey of a group of licensed conveyancers and solicitors will be undertaken and the results analysed.
Shelley Bielefeld (Postgraduate Student of the Law School)

Project Title
“Field work for PhD titled ‘The Use of Legislative Power to Dehumanise a Racial Group’.”

Brief Description
The fieldwork will provide a significant source of data when analysing legislation that was challenged by Aboriginal plaintiffs. The investigator will interview and gather the views of selected Aboriginal plaintiffs who have brought actions challenging various pieces of legislation. The project will investigate how the Aboriginal plaintiffs viewed the operation of law in cases Kartinyeri v the Commonwealth and Nulyarimma v Thompson from the enactment of legislation to the decisions made by judges when the legislation was challenged.

Publications

Books

Book Chapters
School of Law and Justice

Journals


Bird, G., An Unlawful Non-Citizen is Being Detained or (White) Citizens are Saving the Nation from (Non-White) Non-Citizens, University of Western Sydney Law Review, Vol. 9, pp. 87-110.


Cunningham R., Predicting the Predicament: The World Trade Organisation and Biotechnological Agriculture via the EC – Biotech Case, Macquarie Journal of Business and Law.


Jackson, J., Regulation of International Education: Australia and New Zealand, Australia and New Zealand Journal of Law and Education.

Jackson, J., When Can Speech Lead to Dismissal in a University, Australia and New Zealand Journal of Law and Education.


Conferences


Bird, G., Detention without Trial: The Al-Kateb Case, invited paper, Legal Theory Workshop, University of Melbourne, Melbourne, July.

Bird, G., An Unlawful Non-Citizen is Being Detained or (White) Citizens are Saving the Nation from (Non-White) Non-Citizens, Whiteness and the Horizons of Race Conference, The Australian Studies Centre, University of Queensland, South Bank, Brisbane, December.

Garkawe, S., Consent in the Criminal Law, Criminal Law Interest Group, ALTA Conference in Hamilton, New Zealand, July.


Garkawe, S., UN Crime Congress, Bangkok, Thailand, April 2005, Speech to plenary session ‘Victims of Terrorism’.


Jackson, J., Educating School Students with Disabilities: Law, Practice, Policy and the Voices of Children and Young People, Centre for Children and Young People, Seminar Series, Southern Cross University, 26 May 2005.


Neilson, J., staff presentation: EEO and Discrimination Laws, School of Law and Justice, Southern Cross University, 23 March 2005.

Referee for Book Manuscript

Article Review

Non-refereed articles

Garkawe, S., Statement on International Cooperation against Terrorism and Other Criminal Activities, Vol. 9, (2) The Victimologist.


Editor of Journal
Greta Bird is on the editorial board of the Australian Feminist Law Journal.

Jennifer Neilson was an editor of a journal (per edition/issue, approx. 300 pages).

Stanley Yeo is editor for the Criminal Law Journal.
The major highlight for School researchers was the construction of two research laboratories dedicated to vision science and electrophysiological research. These laboratories were heavily utilised by staff, postgraduate and honours students.

The School held the fourth annual Student Conference in November at which students presented the results of their Honours and Postgraduate Diploma research. Held at Aqualuna Resort in Coffs Harbour, the conference was well-attended by staff, students, family, friends, media and members of the community. Students presented research on a range of topics including:

- Perceptions of immigrant ethnic groups by Australian born
- Music's effect on emotions
- The cortical correlates of visual perceptions
- The effects of auditory information on visual processing
- The effect of seasonal changes on psychological states
- Interpretation of environmental sounds by people with tinnitus
- Factors affecting the smoking habits of nursing, psychology and tourism undergraduates.

The School welcomed Kerrie Dennis, its third PhD student and the first SCU graduate to commence a PhD. Ms Dennis is working with Associate Professor Nerilee Hing (Australian Regional Tourism Research Centre) and Dr Stephen Provost on emotional processing of road-signed information on driver behaviour.

Other research activities in the School included ARC-funded research on vision by Dr Ricky van der Zwan, Elena Clara from the University of Padua visited the School for several months to work with Dr van der Zwan on the role of the two hemispheres of the brain and their affects on behaviour.
Funded Projects


Publications
Journals
Bizo, L. A., & Sweeney, N. The use of an ESP cover story facilitates reinforcement without awareness. The Psychological Record, 55, 115-123.


Conferences


Conference Presentations


Melbourne, E., & van der Zwan, R. Discrimination errors caused by physiological changes in state induced by music. 40th Australian Psychological Society Conference.


Tijou, I., Yardley, L., & Bizo, L. Influences of self-efficacy, outcome expectations, mood and aversive feedback on simulated physiotherapy performance. Poster presented at the Health Psychology Annual Conference, Coventry, United Kingdom, September.


Wilson, P.H. Keynote Address: Psychological Treatments for Tinnitus-related Distress. International Tinnitus Conference, Pau, France, September.


Other Presentations

Brooks, A. & van der Zwan, R. The jitter illusion: diphasic TIRF model of how that which is stationary appears to move. Ecole Polytechnique Federale de Lausanne Research Seminar, Switzerland.

van der Zwan, R. A tool for investigating the neural correlates of spatial neglect. Universita degli Studi di Milano-Bicocca, Italy.


van der Zwan, R. What visual processing can tell us about the neural mechanisms of spatial neglect. Jocelynn Wale Seminar Series, James Cook University – Singapore.

Wilson, P. H. The Scientist-Practitioner Model in Psychology, James Cook University.

Membership of Editorial Boards

Provost, S. C. Australian Psychologist

Wilson, P. H. International Journal of Clinical Psychology and Psychotherapy
Research Highlights

Professor San Murugesan served as General Chair of the Fifth International Conference on Web Engineering in July in Sydney, co-sponsored by the School of Multimedia and IT.


As well, Professor San Murugesan was guest editor of Vol 18, numbers 6 and 8, of the *Cutter IT Journal* and wrote specifically about ‘Mobile and Wireless Computing at a Cross Roads’ and ‘Mobile and Wireless Computing, Part II: Vive La Revolution’.

Thesis completed

**PhD**

Xiangzhu Gao, (Supervisor Professor San Murugesan)

“A Non-Indexing Approach to Information Retrieval”

Publications

**Book Chapters**


**Journals**


**Conferences**


Smart, W. J., *Distance Education: A Proactive Approach*, *Proceedings of Online Learning and Teaching Conference*, Brisbane, September, 2005, pp 272-280.


Technology in Asia (CITA05), pp. 107-111, Kuching, Sarawak, Malaysia, 12 – 15 December 2005.


Non-Refereed Publications

Commissioned reports, consultancies and external grants
Armstrong, D.B., Analysis of Transport Needs at Coffs Harbour Education Campus, for the Administration and Services Manager, Coffs Harbour Education Campus.

Armstrong, D.B. & Mason, S., Coffs Coast Tourism Survey, CEDAR – Southern Cross University, Coffs Coast Tourism Board.


Armstrong, B., Mason, S., Fuller, D., Edelheim, J. & Wilde, S., Coffs Coast Visitor Survey, report to the Centre for Enterprise Development and Research, Southern Cross University (Coffs Harbour Campus), commissioned by the Coffs Coast Tourism Association.
Research Highlights

Diane Newton wrote an extensively researched report for the Australian Army’s Training Command entitled ‘The Soldier’s Perspective of Flexible Learning in the Australian Army’. The research, resulting from the initial 18 months of her PhD research, explored factors influencing the design and delivery of flexible learning and partially funded by a grant from the Army’s Training Technology Centre.

Associate Professor Allan Ellis and Professor Tatsuya Higano of Keio University co-chaired the 15th International World Wide Web Conference held in Chiba, Japan in May. Considered the world’s premier Web research event, Sir Tim Berners-Lee delivered the official keynote speech.

Associate Professor Ellis was re-elected President and Executive Chair of IW3C2 for the sixth consecutive year. IW3C2 is the Geneva-based managing organisation. Allan was also Conference Chair of AusWeb05 held on the Gold Coast in July. AusWeb is now in its 12th year and remains the world’s longest running regional Web conference.

Research Funding

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<th>Commonwealth Government</th>
<th>Australian Army</th>
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<tr>
<td>Ellis, A.</td>
<td>Opportunities for evaluation of effective learning in a military online learning environment.</td>
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Thesis completion

Master of Education (Training and Development)

Byrnes, Rod. (Supervisor, Associate Professor Allan Ellis)

Publications

Books and Monographs


Conferences


Unrefereed Conference Papers


Journals


**Research Reports**


**Electronic Publications**

Research Highlights

In October Dr Anja Morton visited the University of Vaasa, Finland to conduct a workshop for PhD students on ‘current issues and recent developments in audit research’.

CEDAR

The newly established Centre for Enterprise Development and Research is a multiple-campus research centre across Lismore, Coffs Harbour and Tweed Gold Coast campuses. The centre aims to enhance the networks between the University and the business community throughout the region. A number of staff from the School have been involved in research and business training through CEDAR.

The Centre has conducted a number of short training programs for small business. Research projects underway are focusing on topics such as sustainable tourism, tourism marketing, affordable housing and economic modelling. During 2005, 1 book, 4 commissioned reports, 7 occasional papers and 2 refereed journal articles (in print) were published from work undertaken within CEDAR.

For further information on CEDAR go to www.cedar.net.au

Research Funding

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Industry and Other Funding for Research

CPA Australia

Christensen, M

An assessment of the impact of accrual accounting on a General Government Services agency. 5,893

Local Government

Lismore City Council

Vitartas, P

A quality assessment of Lismore City Council services. 6,450

Commissioned reports, consultancies and external grants

Buultjens, J. & Kelly, S.J.,

SCU Division of Business Research Training and Advisory Committee for a project titled, Management Competencies for Aboriginal Owned Small to Medium Tourism Enterprises (SMTEs). 15,000

Kelly, S.J. & Harrison J.,

Chandler MacLeod Top Line Solutions data analysis and report on sales process survey – financial services market, completed in association the SCU Sales process research Centre. 3,113

Scott, D. & Vitartas, P.

‘2005 Lismore City Council Resident Satisfaction Survey Results’, Lismore. 14,190

Fraser, M. & Kelly, S.J.

International Technology Collaboration by New Zealand ICT Firms, a report commissioned by the New Zealand Ministry of Economic Development. 45,000

Kelly, S.J., Croft, Q., Gillette, P. & Sheppard, A.

Housing Affordability in the Tweed Shire, a report commissioned by the Bananacoast Community Credit Union from Southern Cross University, Centre for Enterprise Development and Research. 15,000

Armstrong, D.B.  Analysis of Transport Needs at Coffs Harbour Education Campus, for the Administration and Services Manager, Coffs Harbour Education Campus.

Sutton, T., Fuller, D., Wilde, S. & Mason, S.  The Value of the Coffs Harbour Education Campus to the Coffs Coast Regional Economy: A Regional Input-Output Analysis, Report to the Centre for Enterprise Development and Research, Southern Cross University (Coffs Harbour Campus), commissioned by the Coffs Harbour Education Campus. 12,000

Fuller, D. & Wilde, S.  South West Rocks Country Club - Strategic Business Plan, completed on behalf of the Centre for Enterprise Development and Research, Southern Cross University (Coffs Harbour Campus). 6,000

Armstrong, B., Mason, S., Fuller, D., Edelheim, J. & Wilde, S.  Coffs Coast Visitor Survey, report to the Centre for Enterprise Development and Research, Southern Cross University (Coffs Harbour Campus), commissioned by the Coffs Coast Tourism Association. 4,900

Fuller, D., Armstrong, B., Hanlan, J., Wilde, S., Mason, S. & Edelheim, J.  Destination Choice – Visitor Behaviours in a Coastal Tourism Destination on Australia’s East Coast, Centre for Enterprise Development and Research, Occasional paper No. 7. 5,000

Theses completed

PhD
McFadyen, K. (Supervisor Prof Don Scott)
‘A model of perceived value in public sector service delivery’

Master of Business
Hanlan, J. (Supervisor Dr Stephen Kelly)
‘Exploring the Relationships between Destination Brand Image, Information Sources and Destination Experiences’.

DBA
Chirawatthanangkoon, S. (Supervisor, Dr Stephen Kelly)

Honours
Haywood, P. (Supervisor Dr Dennis Howard)
‘Floating exchange rates and external shocks in a small open economy’ First Class Honours.

Ely, P. (Supervisor Dr Don Fuller /Co-supervisor: Grant Cairncross)
‘The effects of changing demographic characteristics on consumer retail demand: A study focused on the Coffs Harbour region’. Second Class Honours, Division 1.
Publications

Book chapters


Journals


Conferences


Harrison, J.L. The impact of environmental uncertainty and dimensions of strategic orientation on the perceived importance of broad scope information, 18th Annual Conference of the Small Enterprise Association of Australia and New Zealand, Armidale, 25-28 September.


Non-Referreed publications


Hanlan, J., Fuller, D. & Wilde, S. The travel destination decision process and the relevance of segmentation studies to the marketing of regional tourism destinations in an Australian context, Centre for Enterprise Development and Research Occasional Paper (Number 1) in collaboration with the Centre for Regional Tourism Research, Southern Cross University.

Hanlan, J., Fuller, D. & Wilde, S. ‘Destination Decision Making: The Need for a Strategic Planning and Management Approach’, Centre for Enterprise Development and Research Occasional Paper (Number 2) in collaboration with the Centre for Regional Tourism Research, Southern Cross University.

Fuller, D., Hanlan, J. and Wilde, S. ‘Market Segmentation Approaches: Do They Benefit Destination Marketers?’, Centre for Enterprise Development and Research Occasional Paper (Number 4), Southern Cross University.

Sutton, T. Fuller, D., Wilde, S. & Mason. S. ‘The Value of the Coffs Harbour Education Campus to the Coffs Coast Regional Economy’, Centre for Enterprise Development and Research Occasional Paper (Number 5), Southern Cross University.

Caldicott, J. & Fuller, D. ‘The concept and relevance of ecotourism to Indigenous economic and human development in remote Australian communities’, Centre for Enterprise Development and Research Occasional Paper (Number 6), Southern Cross University.

CEDAR, Centre of Enterprise Development and Research, (Coffs Harbour representatives):

Front row (left to right): Tim Sutton (C&M), Associate Professor Don Fuller (C&M), Grant Cairncross (THM)

Back (left to right): Johan Edelheim (THM), Stephen Mason (C&M), Simon Wilde (THM).
Research Highlights

The University’s research statistics show that academic Graduate College of Management staff led the University in research output per academic staff member as measured by DEST published research papers in international refereed journals and doctoral completions. In 2005, there were twenty-three doctoral candidates who graduated from the College and College staff and students produced two book chapters, forty-four journal articles and thirty-seven conference papers.

College staff members acknowledged as leading scholars in the worldwide Action Research community as evidenced by two continuing research centres:

- **Southern Cross Institute of Action Research (SCIAR)** established to pursue action research activities with external organisations and the community, and

- **The College of Action Research (CAR)** established as a Designated Developing Area of Research Strength (DDAORS) within the University.

Action Research resources are provided to the community via a website hosted by the Graduate College of Management. In addition, the College is responsible for the leadership of the successful University wide Area of Research Strength of Change, Innovation and Organisational Development.

Individually, College staff members continue research activities as acknowledged below:

- Associate Professor Michael Evans continued working with South East Asian students from emerging regional capital markets in the region. This growing body of work represents some of the first studies of their type in countries such as Indonesia, Thailand and Malaysia. He researched a broader management context especially in the area of strategy and the role played by entrepreneurship, finance and control in successful strategies.

- Dr Carmen Tideswell became a member of the research team, for a three-year research project titled ‘Sustainable Regional Destination Development’. Funded by the Cooperative Research Centre for Sustainable Tourism and the Australian Regional Tourism Network, the project will examine best practice principles for destination development, marketing and management. Her role in the project will focus on marketing regional tourism destinations. An expected outcome of this collaborative research project will be the development of a set of toolkits that will provide regional tourism organisations with strategies that enable the improved development of sustainable tourism in Australia.

- Dr Xu was appointed foundation editor of a new international journal titled ‘International Technology Management Review’. Dr Xu’s article in the Journal of Knowledge Based Systems was one of the most downloaded articles of the journal as determined by surveys conducted by the publisher in 2005. Dr Xu contributed a paper on e-commerce in China by the popular business magazine ‘Business Forum China’, which targets predominantly business executives.

- Associate Professor Shankar Sankaran together with four of his doctoral students researching into Knowledge Management presented a colloquium titled ‘Action Research in Knowledge Management’ at the Fifth International Conference on Knowledge, Culture and Change at the Aegean University at Rhodes, Greece. He was invited to deliver a presentation on ‘Practitioner Research in Project Management’ by the Queensland Chapter of the Project Management Institute and was elected as the National Vice President of the Action Learning, Action Research and Process Management Association of Australia. Associate Professor Sankaran successfully completed a leadership development program with the Lutheran Community Care (LCC), Queensland as a pilot research project to progress towards applying for an ARC linkage grant with LCC in 2006.

- Associate Professor Stewart Hase was an invited scholar at the Southland Institute of Technology, Invercargill New Zealand twice in 2005. He assisted the organisation to increase their capacity to undertake action research programs. He also gave a keynote address at the 2005 conference of the Institutes of Technology and Polytechnics of New Zealand. Current research studies include a study into the ‘dark side’ of organisations and processes...
that the real organisational culture and the application of knowledge management processes with a specific emphasis on overcoming organisational barriers.

Associate Professor Peter Miller continued as Editor of the Australasian Journal of Business and Social Inquiry and on the Editorial Boards of several international peer reviewed journals. He was appointed to an executive editorial role in the development of a major initiative to develop a portfolio of world class business and management related e-journals.

Professor Alexander Kouzmin continued his international, collaborative research work in the areas of Governance, Risk/Crisis Management and Knowledge Management with colleagues from Plymouth Business School, the Cranfield School of Management, the Northampton Business School and the University of Canberra.

Gita Sankaran presented two papers at The Fifth International Conference on Knowledge, Culture and Change in Organisations, at the University of the Aegean, Rhodes, Greece. As a result of her involvement, Gita was invited to be the Newsletter Editor, Community Coordinator and a member of the International Advisory Board of the Management Conference and Journal for The Sixth International Conference on Knowledge, Culture and Change in Organisations, at the Monash University Centre, Prato, Italy.

Dr Michelle Mau won the best paper prize at the act-KM research forum for a paper based on her research into knowledge management in the public sector, which is the principal conference in Australia for knowledge management practitioners in the public sector. Dr Paul James won the Alumni of the Year Award from the College for his work in establishing the research forums for actKm and an electronic journal titled actKM Electronic Journal of Knowledge Management. Dr Madhu Ranjan Kumar was the College’s first Indian student to complete the DBA program with his research project investigating the introduction of Total Quality Management into the Indian Railways as an action research intervention.

Research grants
Associate Professor Shankar Sankaran received $19,500 for the Lutheran Community Care leadership research and development program.

Publications project
Through the GCM publications program, headed by Gita Sankaran, students and staff published nineteen articles in international peer-reviewed journals. DBA candidates and graduates who had their research published include: Ian Benton, Edward Hudson, Dani Husnan, Paul James, Pranee Leksrisakul, Lim Wai Tat, Michelle Mau, Ridwan Nurazi, Martin Orr, Abdul Rakhman, Malinee Ronapat and Simon Walker. The publications program also helped to publish six papers by staff from our New Zealand partner, the Manukau Institute of Technology. Ten peer-reviewed papers were presented at international conferences by DBA graduates and candidates.

DOCTORAL GRADUATES
Doctor of Business Administration
Dr MALINEE RONAPAT - Thesis Title: Disappearing Dividends: The Case of Thai Listed Firms - Supervisor – Associate Professor Mike Evans

Dr VIVIENNE McCabe - Thesis Title: Career Profiles And Labour Mobility In The Convention And Exhibition Industry In Australia - Supervisor – Professor Lawson Savery

Dr MATTHEW NISBET - Thesis Title: Leadership of Volunteers in the Not-for-Profit Sector - Supervisor – Associate Professor Michelle Wallace

Dr PETER ELLIS - Thesis Title: The Contribution of Business/Management Education to Small Enterprise Solvency - Supervisor – Professor Geoffrey Meredith

Dr SALIN WATCHARAPONGKITTI - Thesis Title: An Factors Creating A Competitive Advantage In Export Performance (A Case Study Of Two Industries In Thailand) - Supervisor – Professor Geoffrey Meredith

Dr KOH HEE MENG - Thesis Title: Total Quality Management in Malaysia: An Assessment Of Multinational Corporations - Supervisor – Professor Phil Neck
Dr TAIEN LAYRAMAN - Thesis Title: The Experiences Of Successful Thai Women Leaders And Managers - Supervisor – Professor Sandra Speedy

Dr THATOK ASMONY - Thesis Title: Managing Resistance To Change In The Regencies and Municipalities Of The Province Of Nusa Tenggara Barat Indonesia - Supervisor – Assoc. Professor Stewart Hase

Dr CHEN CHUN-TSUNG - Thesis Title: The Impact Of Technological Frames On Knowledge Management Procedures - Supervisor – Professor Geoffrey Meredith

Dr CALLUM BROWN - Thesis Title: Complex Adaptive Systems and Organisational Understanding in the Royal Australian Air Force - Supervisor – Dr Mike Gloster

Dr TANAKAN KANJANAKAJIT - Thesis Title: Investigation of the Impact of Food Safety Issue on Consumers’ Intention Towards consumption of Meat and Meat Products - Supervisor - Dr Carmel Herington

Dr JOHN MCELellan - Thesis Title: A Study On The Integration Of A Six Sigma Continuous Improvement Program And The Management Control System Of That Organisation - Supervisor - Dr Don McMurray

Dr ALOSISOUS JOHN PEREIRA - Thesis Title: The Impact Of Service Quality On Relationship Development And Maintenance In The Service Industry - Supervisor - Professor Geoffrey Meredith

Dr SAWAT WANARAT - Thesis Title: Strategic Roles of Distribution Channels for Enterprise Success - Supervisor - Professor Geoffrey Meredith

Dr KATHILAYA THANATHANOMKUL - Thesis Title: Consumer Satisfaction and Factors Influencing Consumer Purchase of Products Through Direct Marketing (A study of consumers who buy MLM products—specifically personal cosmetics products—in Thailand) - Supervisor - Professor Geoffrey Meredith

Dr PAUL JAMES - Thesis Title: Knowledge Asset Management: The Strategic Management and Knowledge - Management Nexus - Supervisor - Assoc. Professor Shankar Sankaran

Dr MICHELLE MAU - Thesis Title: Action Research In Knowledge Management: Connecting Knowledge In The Australian Public Sector Organisation - Supervisor - Assoc. Professor Shankar Sankaran

Dr ANNE GIBBS - Thesis Title: Management of Cultural Issues (RISK) in International Engineering Projects - Supervisor - Assoc. Professor Shankar Sankaran

Dr CHIANG GUAN SIANG - Thesis Title: A Deterministic Model Of Intrapreneurship (DMI) For Assessing The Intrapreneurial Climate In Public Primary Schools In Singapore - Supervisor – Professor C.S. Teo

Dr YONG NGEE NG - Thesis Title: ‘A Principle-Distributor Collaboration Model in the Crane Industry’ - Supervisor - Assoc Prof Stewart Hase.

Dr RADIKA VASUDEVA Thesis Title: ‘A Professional Practice Model for Speech-Language Therapy in Singapore’ - Supervisor - Assoc Prof Stewart Hase.

Dr DAVID FOX - Thesis Title: ‘Venture Capitalist Assessment of Biotechnology Enterprise Applications for Finance - a Multilateral Perspective’ GCM - Supervisor - Assoc Prof Stewart Hase.

Publications

Books/Book Chapters


Journals


Conferences

Ambrose, C. and Sankaran, S., ‘Tacit knowledge transfer in dynamic global organizations – A case study at a multinational company’, International Conference on Knowledge Management (ICKM) Conference, Oct. 27-18., Charlotte, N.Carolina, USA.


Cameron, R., ‘Trajectories, transitions and transformations’ to be presented at the 13th Annual International Conference on Post-Compulsory Education and Training, December, Griffith University, Australia.


Dreyer, W. and Kouzmin, A., ‘Are Management Schools for Real or Merely “Rent Seekers” in the New Knowledge Economy?’, The Fifth International Conference on Knowledge, Culture and Change in Organizations, Rhodes, Greece, 19-22, July.


Sankaran, G. and Kouzmin, A., ‘Knowledge transfer through publication of DBA research: from fantasy to reality’, Fifth International Conference on Knowledge, Culture and Change Management, 19-22 July, Rhodes, Greece.

Sankaran, G. and Kouzmin, A., ‘Critical thinking in management praxis: impossibility or imperative?’, Fifth International Conference on Knowledge, Culture and Change Management, 19-22 July, Rhodes, Greece.


Singh, K. J. Ritchie, B. & Xu, J., Adopting Electronic Commerce as a Competitive Strategy in Malaysian Electronics SMIs, Proceedings of The Fifth International Conference on Electronic Business (ICEB 2005), Dec 4-9, Hong Kong, China, pp. 759-762.


Walker, S., Sankaran, S. and James, P., ‘What are the barriers to the successful deployment of knowledge management programs in the telecommunications industry? A participatory action research study,’ Fifth International Conference on Knowledge, Culture and Change Management, 19-22 July, Rhodes, Greece.


## COLLEGE STAFF ON JOURNAL EDITORIAL BOARDS

<table>
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<tr>
<th>Staff member</th>
<th>Research Journals</th>
</tr>
</thead>
</table>
| **Associate Professor S. Sankaran** | Action Research [http://arj.sagepub.com/](http://arj.sagepub.com/)  
Reviewer for Educational Action Research [http://www.tandf.co.uk/journals/titles/09650792.asp](http://www.tandf.co.uk/journals/titles/09650792.asp)  
actKM Electronic Journal of Knowledge Management  
Reviewer for Action Learning : Research & Practice (UK) [http://www.tandf.co.uk/journals/titles/14767333.asp](http://www.tandf.co.uk/journals/titles/14767333.asp)  
| **Associate Professor P. Miller** | Editorial Board Member, [Leadership and Organisation Development Journal](http://www.ubcpress.ca/index.html), as book/article reviewer.  
Founding Editor, [Australasian Journal of Business and Social Inquiry](http://www.academicglobalpublications.com/ajbsi/index.htm)  
Editorial Board member, [Journal of Workplace Learning](http://www.mcb.co.uk/cgi-bin/journal1/ect).  
Reviewer for [Journal of Economic and Social Policy](http://www.mcb.co.uk/cgi-bin/journal1/ect).  
| **Dr Jun Xu** | Founding Editor, [International Technology Management Review](http://www.ubcpress.ca/index.html)  
Editorial Board Member, Australasian Journal of Business and Social Inquiry |
| **Dr Carmen Tideswell** | Editorial Advisory Board Member, Australasian Journal of Business and Social Inquiry  
Reviewer for Tourism Management journal  
Review for Annals of Tourism Research  
Reviewer for Australian and New Zealand Marketing Academy Conference  
Reviewer for the Council for Australian University Tourism and Hospitality Education Conference |
| **Associate Professor S. Hase** | Ultibase  
Complicity  
Action Research International |
| **Associate Professor M. Wallace** | Editorial Board of Journal of Workplace Learning  
Reviewer for Gender, Work and Organisation  
Learning and Teaching in the Social Sciences  
<table>
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                    | Member, Editorial Board, *Administration and Society* (Sage/Blacksburg).            
                    | Member, Editorial Board, *Administrative Theory and Praxis* (California State University/San Francisco).   
School of Tourism and Hospitality Management

Research Highlights

The school had eighteen full time academic staff, twenty-two PhD, nine Masters by Research and three Honours students actively researching a broad range of topics.

Professor Dick Braithwaite worked on three books. One book attempts to shed light on why some people have a stronger attachment than others do to where they live and visit. The second book is about using “dark tourism” as therapy for people deeply affected by war. The third is a co-edited book on the rainforests of southern Queensland and NSW with the CERRA World Heritage Committees.

Helen Breen was awarded a 3-year scholarship to pursue her PhD on gambling in Indigenous communities.

Dr Jeremy Buultjens assumed Directorship of the Australian Regional Tourism Research Centre (see below).

Grant Cairncross was engaged in a project on the patterns of leave-taking by General Practitioners and the circumstances in which they prescribed leave for patients in north-eastern NSW. He also is investigating the motivations and satisfaction of ‘seachangers’ in the Coffs Harbour area.

Michele Day was awarded her Masters research on Casualisation and Commitment in the Hospitality Industry, based on qualitative and quantitative research involving hotel employers and employees.

Kay Dimmock pursued her PhD conducting pre and post-experience surveys with scuba divers in the Cape Byron Marine Park gauging the differences between expectation and experience.

Associate Professor Ngaire Douglas (with Norman Douglas) published The Cruise Experience, a comprehensive study on the subject of cruise ships.

Yun Lok Lee completed most of his fieldwork for his PhD on service quality in relation to culture.


Paul Weeks and Maxine Hawker from the Hotel School obtained a grant to investigate the professional reading habits of hotel managers. Research is complete and the findings under preparation for presentation.

Dr Erica Wilson initiated collaborative research on public-private partnerships in NSW National Parks and is involved in collaborative projects on hospitality labour markets and the negative effects of gambling.

Mieke Witsel continued work on her PhD project on intercultural sensitivity, a project about the implications of internationalisation of tourism studies in Australian universities.

Some staff from the School in Coffs Harbour were involved in research and business training through the newly established Centre for Enterprise Development and Research (CEDAR), a multiple-campus research centre (Lismore, Coffs Harbour and Tweed Gold Coast) aiming to enhance networks between the University and the regional business community. CEDAR conducted a number of short training programs for small business as well as research projects focused on topics such as sustainable tourism, tourism marketing, affordable housing and economic modelling. In 2005, one book, four commissioned reports, seven occasional papers and a referred journal article (in print) were published from work undertaken within CEDAR.

Centre for Gambling Education and Research (CGER)

Headed by Associate Professor Nerilee Hing

The Centre for Gambling Education and Research obtained a $70,000 funding from the Queensland Government to examine gambling behaviour of Queensland gaming venue employees and how their workplace might influence behaviour. Research explores how gaming venues might provide a work environment conducive to responsible gambling amongst employees. In 2005, Nerilee Hing, Helen Breen and Sharon Nisbet from the CGER conducted 194 exploratory interviews with gaming venue employees, employers,
industry associations, problem gambling counsellors, their clients, and the key employee union to inform this research. The Queensland Government also provided funding for a follow-up study involving a broad-scale survey of gaming venue employees.

**Australian Regional Tourism Research Centre (ARTRC)**

This was formerly the Centre for Regional Tourism Research (CRTR). It underwent a name change in 2005 to ARTRC, in recognition of its pursuit of a national profile as a leader in regional tourism research Australia-wide.

This Centre is a partnership between the Cooperative Research Centre for Sustainable Tourism and Southern Cross University.

In 2005 the ARTRC presented its most successful Australian Regional Tourism Convention to date in Busselton, WA. The Convention attracted over 150 Australian delegates and addressed themes of innovation and connectivity in relation to participation, research, investment and technology.

Dr Jeremy Buultjens assumed directorship of The Australian Regional Tourism Research Centre in 2005 and Meredith Lawrence has been appointed as Deputy Director. Jeremy retains his position as Senior Lecturer with the School of Tourism and Hospitality Management (SCU Lismore Campus), teaching Indigenous Tourism, Economics and Tourism Planning and the Environment as well as conducting additional research interests in regional tourism, Indigenous tourism and employment relations in the hospitality industry. Meredith, a lecturer for SCU School of Tourism and Hospitality, submitted her PhD study (STCRC scholarship) examining the ‘Byron Bay tourism policy, planning and destination management system’.

Rose Wright was hired as Extension Officer and Amanda Shoebridge appointed Research Fellow for the Centre.

**Listed below are projects conducted by the Centre.**

**Sustainable Regional Destination Development**

Meredith Lawrence leads one of the most interesting research projects to emerge in regional tourism: a three-year, Sustainable Regional Destination Development project supported by the STCRC and the Australian Regional Tourism Network. The aim is to provide practical guidance for industry, government and community stakeholders through the development of best-practice principles. Practical outcomes resulting from the project will include a set of toolkits and training programs providing stakeholders engaged in regional tourism with strategies for improving sustainable destination tourism.

**Business Ready Program for Indigenous Tourism**

ARTRC Researcher and PhD candidate, Deborah Gale began conducting interviews in 2005 with Indigenous Tourism Operators and their business mentors throughout regional Australia for the Department of Industry Tourism and Resources (DITR) - Business Ready Program for Indigenous Tourism. The DITR seeks to establish a body of independent data on issues affecting sustainability of Indigenous tourism operations in Australia and to gauge the results of previous policies and programs for that industry. Results from the interviews will aid in shaping future policy and the design for the Business Ready Program for Indigenous Tourism program.

**How Does Mainstream Tourism Industry View Indigenous Participation?**

ARTRC Researcher Noah Nielsen began work in 2003 on the Tourism Queensland commissioned project, ‘How Does the Mainstream Tourism Industry View Indigenous Participation?’. Due for completion in 2006, the project examines issues critical in developing a greater level of Indigenous participation in tourism. This research aims to investigate mainstream tourism attitudes towards Indigenous participation in tourism; investigate regional tourism organisations’ attitudes towards Indigenous participation in tourism; investigate Indigenous tourism operator’s attitudes towards participation with mainstream tourism activities and organisations; and, to
develop strategies for Tourism Queensland facilitating participation of Indigenous tourism operators with mainstream activities and organisations.

**NSW National Parks and Wildlife Services and private partnerships**

This study by Dr Erica Wilson investigates different partnership models between the NSW NPWS and the private sector to identify best practice in partnerships.

**Labour market issues in tourism and hospitality**

In association with the School of Tourism and Hospitality Management, this project examined labour outcomes in the tourism and hospitality industries.

**Training needs in the tourism and hospitality industry**

This project aims to assess whether industry-training outcomes are appropriate to the current and future needs of the tourism industry. Part of this assessment is directed towards learning if the provisions of holiday visa arrangements to mature-aged people, can assist in matching supply to demand for trained labour in the tourism industry. A secondary goal is identifying and prescribing training initiatives to enhance contribution these groups might make. The project will also attempt to learn if the current training meets industry requirements and if gaps remain in training provisions contributing to trained labour shortages. Recommendations will be developed in consultation with the industry.

**Public Sector Initiatives for Indigenous Tourism Businesses**

Tourism can generate employment and advantageous, economic development opportunities for Indigenous communities but some operators are bewildered at the levels of bureaucracy and complexity of the programs offered through the many government agencies. To help them a group within the ARTRC investigated their needs to better equip them with the information and knowledge they need to engage successfully in the tourism industry.

**Indigenous Enterprise Development**

This project, undertaken by Amanda Shoebridge, examines the factors assisting successful Indigenous businesses to develop in the Bundjalung Nation. A study of the characteristics of successful Indigenous entrepreneurs continues, as well as a study of the environmental, social, cultural and economic conditions that either helped or hindered their progress. Amanda will conduct in-depth interviews with successful Indigenous and Non-Indigenous entrepreneurs, with an anticipated outcome for the project being a framework to help Indigenous entrepreneurs establish their own businesses Australia-wide.

**Indigenous Tourism Key Agencies Forum**

The ARTRC coordinates a forum called the Indigenous Tourism Key Agencies Forum for Researchers in Indigenous Tourism.

**The Use of Government Assistance Programs Available To Indigenous Tourism Operators in NSW**

Fostering greater economic independence for Indigenous people has become an important objective for the Australian government. Tourism is considered one potential source for the growth of Indigenous economic independence in Australia. To assist in the development of Indigenous tourism industry, the Australian Federal and State governments developed a range of initiatives designed to assist Indigenous people and communities develop business ideas and sustainable operations.

To properly judge the appropriateness and use of the Indigenous tourism assistance programs and to assist in the development of a strong and self-reliant industry an assessment was conducted by Melanie Robinson, an ARTRC researcher.

**Western NSW Indigenous Tourism Trail**

This qualitative PhD research by Noah Nielsen aims to investigate Aboriginal tourism proponents’ attitudes to regional tourism planning. This research centres on the western NSW towns of Bourke, Brewarrina, Walgett, Lightning Ridge, and Goodooga. All these towns are located in Tourism NSW’s Outback NSW region, approximately 1000 kilometres west of Byron Bay. Populations range from about 500 to just over 3000 people and several of these towns are over 80% Aboriginal. The Indigenous Business Development Officer of NSW State and Regional Development facilitated initial contact with Aboriginals in the region. The Aboriginal tourism proponents
of this region have formed the Bhaime Doctoreaming Cooperative, with the support of the Indigenous Business Development Officer. The experience of the Aboriginal people involved in the Cooperative has become the major focus of this research.

**Indigenous tourism enterprise audit**

Despite the growing attention being paid to Indigenous tourism development and management, there is very poor knowledge about the state of the sector in terms of its engagement with tourism.

The core of this project was the specification of a minimum dataset monitoring the engagement of Indigenous enterprises in tourism. The report includes recommendations for collecting and managing data and forms a starting point in addressing the unknowns concerning Indigenous tourism. The report also includes recommendations for collecting and managing data relating to the minimum dataset.

**Domestic Perception of Indigenous Tourism**

This study by Damien Jacobsen seeks to highlight how Aboriginal essentialism myth is perpetuated within Australian national narrative (including tourism discourse) and how it can service national identity in a manner that may influence domestic market propensities to engage in Aboriginal tourism experiences.

The study explores the level at which Australian visitors to Cooktown in far north Queensland appropriate Aboriginal signifiers (in conceptions of mainstream and personal Australian identity) and if appropriation leads to essentialism myth deconstruction, and, further, if myth deconstruction equates to greater propensity to engage in Aboriginal tourism experiences.
### Research Funding 2005

#### Federal Government

**Buultjens, J**

Business Ready Program for Indigenous Tourism.  
Federal Dept of Tourism, Industry and Resources  
$25,000

#### State Government

**Hing, N**

Gambling by employees of Queensland gaming venues: workplace influences on responsible gambling and problem gambling.  
State of Queensland acting through the Queensland Office of Gaming Regulation  
$44,545

#### Industry and Other Funding for Research

**Waller, I**

Inquiry into young drink drivers in the Coffs harbour CBD.  
Coffs Harbour City Council  
$1,090

**Derrett, R**

Databases for Herb Festival and Masters Games.  
Lismore City Council  
$26,281

Development of the Wilsons River Experience Walk.  
$39,990

GRC Wilsons River Experience Walk  
$15,000

Lismore’s café and culture trail.  
$116,000

**McCabe, V**

To design, develop and implement a cost-effective system that enables the regular collection of data from professional conference organisers in Australia on conferences and exhibitions.  
AMLINK/MIA  
$6,774

**Carson, D**

Development and implementation of ACT Tourism Activity Monitor Online.  
Australian Capital Tourism Corporation  
$11,800

Analysis of the international visiting friends and relatives (IVFR) markets for the ACT.  
$1,800

**Breen, H**

Investigation of the perceived efficacy of current responsible gambling strategies in selected Queensland hotels, casinos, and registered and licensed clubs.  
Queensland Tourism  
$33,440

**Carson, D**

Australian Regional Tourism Network Secretariat.  
Various State Tourism Organisations  
$89,508
## Cooperative Research Centre (CRC) Funding

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<tr>
<th>Name</th>
<th>Project Description</th>
<th>Amount</th>
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<tr>
<td>Buultjens, J</td>
<td>Factors affecting the sustainable development of Indigenous small business development.</td>
<td>23,484</td>
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<tr>
<td>Buultjens, J</td>
<td>Supplementary scholarships.</td>
<td>1,500</td>
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<td>Buultjens, J</td>
<td>NSW Network Coordinator.</td>
<td>5,000</td>
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<td>Buultjens, J</td>
<td>The Business Ready Program for Indigenous Tourism (BRPIT) in Australia: genesis, development and implementation.</td>
<td>4,000</td>
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<td>Carson, D</td>
<td>Miscellaneous research.</td>
<td>56,990</td>
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<td>Carson, D</td>
<td>An evaluation of tourism’s contribution to Australia’s regions.</td>
<td>92,549</td>
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<td>Carson, D</td>
<td>CRC theme leader administration.</td>
<td>10,000</td>
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<td>Carson, D</td>
<td>Extension officer to support CRC theme leader.</td>
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<td>Carson, D</td>
<td>VIC yield kit – commercialisation.</td>
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<td>Carson, D</td>
<td>Decipher - operational systems R&amp;D.</td>
<td>69,876</td>
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<td>Fuller, D</td>
<td>Strategies for building sustainable and internationally competitive industries for regional Australia - the importance of tourism as an economic driver.</td>
<td>18,840</td>
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<td>Fuller, D</td>
<td>STCRC program scholarship.</td>
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<td>Leiper, N</td>
<td>Scholarships.</td>
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Invited Presentations/Participation

Braithwaite, R. Final reconciliation between Australians and Japanese. 29 May at Australian War Memorial Dedication of Sandakan Memorial.

Braithwaite, R. The suffering of families of soldiers. 30 August, Sandakan Day at Burwood Park, Sydney.

Douglas, N. Guest lecturer Tourism in the South Pacific to Masters Students at Finmark University in Alta, Norway.

Edelheim J. Australian Tourism and National Identity Invited guest lecturer at Macquarie University in CUL201, Australian Cultural Studies, CCS, MQU 14 March. Invited academic: Associate Lecturer Nicole Anderson.


Hing N. and Nisbet S. of the CGER attended the Second International Think Tank on Presenting Gambling Populations and First Contact Services in Auckland as invited participants, along with about 50 local and international experts in gambling studies.

Hobson P. spoke at the 54th PATA conference in April on the difference between industry and academic perspectives of tourism.

Richards F. conducted VIC Kit/Tourism Futures Project presentations in Bunbury WA in March.

Taylor A. spoke to tourism students at IMC-Krems University in Krems, Austria on 25 February on “The Whys and Hows of Getting Tourism Research and Information Out There”. He also delivered a conference presentation at ENTER 2005, Innsbruck, Austria titled “Market imperfections in the tourism information marketplace: highlighting the challenges for information system developers”. This paper was published in the book “Information and Communication Technologies in Tourism 2005” (Andrew J. Frew – ed).

Witsel, M. Joy and Journeying: Teaching tourism and hospitality in a multicultural context for Martin Opperman Memorial Seminar, Griffith University.

Weeks P. presented a workshop on ‘Management in Action’ at the Australian Tourism Export Council (ATEC) 2005 annual conference attended by tourism industry managers.

Visiting Scholars

Dr Paul Barron from UQ gave a seminar on Learning needs of Confucian heritage students for all interested University staff at SCU’s teaching and learning centre in August.

Mr David Beirman of the Israel Tourism Office for Australasia and the South West Pacific visited in March to speak on risk management in tourism.

Ms Ester Pereira, a PhD student from Stavanger University, Norway spent August - September working on her project on ecotourism in Amazonia.

Mr Bryan Ray of The Ray Group, Gold Coast, spoke on hotel investment trends at the Tweed campus.

Mr Tony Sze, a PhD student from Hong Kong, visited in July to confer with Associate Professor Perry Hobson and Professor Neil Leiper.
Theses Approved

Honours
Anderson, Emma (Grant Cairncross)
The motivation and management of volunteers: a comparative study of two regional tourism organisations.
Second Class, Division 1 Honours
Ping Kee, Glen, (Dr Nerilee Hing and Mieke Witsel)
Building a Model of Competing Tensions in Australian Internet Legislation
Second Class, Division 1 Hons.
Lamont, Matt (Ron Dowell)
Small and Medium Business Sponsorship of Regional Sport Tourism Events.
First Class Honours
Minnikin, Jacgui (Helen Breen, Maree Walo)
Evaluating the perceived effectiveness of Queensland's education modules in responsible gambling developed for school children.
Second Class, Division 1 Honours
Roff, Sarah (Dr Dean Carson)
Towards a framework for explaining linkages between referred attractors and other attractors: the contribution of the Rugby Celebration, Canberra 2003 Marketing Campaign, Canberra, Australia.
Second Class, Division 1 Honours

Research Masters
Mackellar, Jo (Dr Nerilee Hing, Dean Carson)
How networks foster innovation: the case of the Northern Rivers Herb Festival.

Taylor, Andrew (Dean Carson)
A Critical Evaluation of Aspects of the Tourism Information Commodity Marketplace in Australia and Some Implications for Innovation in Tourism

Publications

Books
Fuller, D., Howard, M., and Buultjens, J., Indigenous Community Development and Self-employment, Central Queensland University Press.

Book Chapters

Journals
Breen, H., Buultjens, J. and Hing, N., ‘The Responsible Gambling Code in Queensland:


**Conferences**


Cairncross, G. and Buultjens, J., ‘Sea-changers and Downshifters and the Australian tourism and hospitality industry – some possible effects.’ *College of Australian Universities Tourism and Hospitality Educators (CAUTHE) Conference*, Alice Springs, Australia.


**Non-refereed publications**

Breen, H., Hing N. and Buultjens J. ‘Facilitators and impediments arising from the introduction of a voluntary responsible gambling code of practice in Queensland, Australia’, in M. Abbott (ed.). *Gambling and problem gambling in New Zealand: Taking stock and moving forward on policy, practice and research: A combined proceedings of the International..."
Gambling Conference and the International Think Tank on Presenting Gambling Populations and First Contact Services, eCOMMUNITY: International Journal of Mental Health & Addiction, not paginated.

Caldicott, J. and Fuller, D. ‘The concept and relevance of ecotourism to Indigenous economic and human development in remote Australian communities’, Centre for Enterprise Development and Research Occasional Paper (Number 6), Southern Cross University.


Edelheim, J. ‘What’s wrong with the old way of seeing things?’, Conference presentation at Undisciplined 2005, 24-25 February, Macquarie University, Sydney, NSW.


Hanlan, J., Fuller, D. and Wilde, S.. ‘The travel destination decision process and the relevance of segmentation studies to the marketing of regional tourism destinations in an Australian context’, Centre for Enterprise Development and Research Occasional Paper (Number 1) in collaboration with the Centre for Regional Tourism Research, Southern Cross University.

Hanlan, J., Fuller, D. and Wilde, S. ‘Destination Decision Making: The Need for a Strategic Planning and Management Approach’, Centre for Enterprise Development and Research Occasional Paper (Number 2) in collaboration with the Centre for Regional Tourism Research, Southern Cross University.


Hing, N. ‘Researching the effectiveness of venue-based responsible gambling measures in Australia: What has been done?’, in M. Abbott (Ed.), Gambling and problem gambling in New Zealand: Taking stock and moving forward on policy, practice and research: A combined proceedings of the International Gambling Conference and the International Think Tank on Presenting Gambling Populations and First Contact Services, eCOMMUNITY: International Journal of Mental Health & Addiction, not paginated.


Sutton, T., Fuller, D., Wilde, S. and Mason. S. ‘The Value of the Coffs Harbour Education Campus to the Coffs Coast Regional Economy’, Centre for Enterprise Development and Research Occasional Paper (Number 5), Southern Cross University.
Commissioned reports, consultancies and external grants

Armstrong, B., Mason, S., Fuller, D., Edelheim, J. and Wilde, S. ‘Coffs Coast Visitor Survey’, report to the Centre for Enterprise Development and Research, Southern Cross University (Coffs Harbour Campus), commissioned by the Coffs Coast Tourism Association.

Brereton, D., Memmott, P., Reser, J., Buultjens, J., Thomson, L., Barker, T., O’Rourke, T. & Chambers, C. Mining and Indigenous Tourism in Northern Australia: An Exploration of Avenues and Opportunities for Indigenous Communities to Support Sustainable Indigenous Tourism Activities Utilising Mining Infrastructure

Fuller, D. and Wilde, S., South West Rocks Country Club – Strategic Business Plan, completed on behalf of the Centre for Enterprise Development and Research, Southern Cross University (Coffs Harbour Campus).

Sutton, T. Fuller, D., Wilde, S. and Mason. S., ‘The Value of the Coffs Harbour Education Campus to the Coffs Coast Regional Economy: A Regional Input-Output Analysis’, report to the Centre for Enterprise Development and Research, Southern Cross University (Coffs Harbour Campus), commissioned by the Coffs Harbour Education Campus.

Witsel, M., ‘Implementing Internationalisation at Southern Cross University’ (commissioned by Vice Chancellor Professor Paul Clark): Southern Cross University, Lismore.
Staff and post-graduate students in the School of Environmental Science and Management continued a strong record of research achievements in a broad range of environmental fields.

**Research achievements included:**

- Seventeen honours students and thirteen postgraduate research students graduated in 2005.
- Close and successful liaison with industry research partners and consultancies with more than $0.5M in government grants and industry-funded and applied research.
- The school also obtained a large proportion of internal research funds from the university.

School staff were involved in seven of the University’s eight prestigious national Cooperative Research Centres (CRCs), each one funded for a seven-year program of research:

- CRC for Contamination Assessment and Remediation of the Environment (CARE) [http://www.crccare.com](http://www.crccare.com)
- CRC for Sugar Industry Innovation through Biotechnology (SIIB) [http://www.crcsugar.com/](http://www.crcsugar.com/)

**Research publications included:**

- Over one hundred books and refereed scholarly publications.
- Numerous technical reports, conference presentations and other publications.

The School’s research activities are conducted by various research centres and programs under the following broad subject areas.

**Marine and Estuarine Biogeochemistry, Ecology and Conservation**

The Centre for Coastal Biogeochemistry continued its research programs in Australia including studies of the biogeochemistry of subtropical and tropical estuaries and the sediments of the Great Barrier Reef, as well as collaborations with a number of international institutions such as the Netherlands Institute of Ecology, Max Planck Institute for Marine Microbiology, Germany and the University of Copenhagen, Denmark. In 2005 the Centre successfully attracted external research funds obtaining three ARC Grants worth about $1.1 million. This included funding to set-up a new stable isotope facility for environmental work with a TOC/GC-c/EA-IRMS. The Centre produced three refereed journal papers and five technical reports in 2005. A highlight was the seven-month research visit from Associate Professor Ronnie Glud from the University of Copenhagen in Denmark. Associate Professor Glud worked with Professor Eyre on nitrogen cycling in permeable sands in tropical coastal systems.

The SCU Whale Research Centre has four academic research staff, ten Adjunct Professors and Fellows and ten postgraduate researchers, the largest group in Australia working on cetaceans. Major projects include long-term population and genetic studies of the east coast humpback whales, dolphin ecology projects in northern NSW and Queensland, and international research on humpback whales in Rarotonga, beaked whales in the Bahamas, and cetacean interactions with long-line fishing in Samoa. Centre Director, Associate Professor Peter Harrison and other staff and postgraduate students received $650,000 in external research funding, including a large ARC-Linkage grant to establish a non-lethal technique for determining the ages of humpback whales. The Whale Research Centre also continued to attract substantial media coverage with more than 260 media stories about its research, representing 8.5% of the total SCU media profile for the year.
The Mangrove Ecology Research Centre continued its international focus with projects in Thailand, Vietnam and the United Arab Emirates. Professor Peter Saenger was invited by the Food and Agricultural Organisation of the United Nations (FAO) to assess the damage to mangroves and other coastal forests in southern Thailand, caused by the Boxing Day (2004) tsunami. FAO invited him to lead a small working group to enquire into the role of coastal forests in protecting against destructive natural hazards affecting coastal areas of Asia, including cyclones, tsunamis, salt spray and coastal erosion. He completed the long-running ACIAR Project ‘Genetic Diversity and Propagation of Mangroves’ by organising a well-attended wind-up workshop at the Vietnam National University in Hanoi. Professor Saenger also undertook extensive fieldwork assessing the phenotypic variation in the leaves of mangroves from Burrum Heads to the tip of Cape York in tropical Queensland.

Staff and postgraduate students in the Centre for Coral Reef Research continued an international project on coral reproduction and the impact of bleaching in Moorea, French Polynesia. Other research projects were conducted on coral reproduction, coral recruitment, sea anemone reproduction, coral diseases, benthic community surveys and other reef ecology projects on the Great Barrier Reef. Work on local subtropical reef systems contributed to the planning process for the Cape Byron Marine Park. Particular expertise accumulated in rapid underwater surveys, coral reproduction and ecotoxicology of corals and reef organisms, and publications are expanding each year. Associate Professor Peter Harrison was appointed as the marine expert to Australia’s national Threatened Species Scientific Committee by the Federal Environment Minister Senator Campbell.

The Fisheries Research Centre conducts research into the biology of exploited species, the impact of fishing on aquatic communities and examines strategies for effective management of fisheries, both freshwater and marine. Current projects include the biology of beachworms, the impacts of fishing closures on marine ecosystems of the Cape Byron Marine Park, the effects of restoring tidal habitats by opening flood gates and barrages and the biology of freshwater crayfish.

Environmental Rehabilitation and Technology

The Environmental Engineering and Geochemistry Centre attracted over $1.1M in industry funding public sector research grants. Much of the research involves the numerous environmental restorative applications of Bauxsol™, a by-product of the aluminium industry. Technologies produced by staff of the centre and their industry partners applied to high-profile global environmental problems. Of particular significance was the development of a new type of concrete now being studied in detail in collaboration with Professor Basheer at the Concrete Research Institute, Queens University, Belfast. This research is funded through an ARC-Linkage grant worth over $830 000 over the three-year grant life.

The Centre for Acid Sulphate Soil Research (CASSR) has six research staff and ten PhD students involved in collaborative research with a wide range of international and national organisations including CSIRO, Åbo Akademi University, (Finland), University of Maryland (USA), South China Agricultural University, University of South Australia and many state, environmental departments. CASSR received grants for over $1.5 million in new, external research funding. A highlight of the research was the key role CASSR played in the new CRC for Contamination Assessment and Remediation of the Environment.

Dr Richard Bush was awarded a prestigious ARC Research Fellowship for 5 years as a founding CASSR member to continue his research into unravelling the role of schwertmannite on water quality in acid sulphate soil landscapes. CASSR Director Professor Leigh Sullivan was invited to be the Academic Member on the National Committee for Acid Sulphate Soils (NatCASS). NatCASS is the National Coordinating Group established under the auspices of the Standing Committee on Agriculture and Resource Management (SCARM) of the Agriculture and Resource Management Council of Australia and New Zealand. It facilitates the implementation of the National Strategy for the Management of Coastal Acid Sulphate Soils. Professor Sullivan was invited by the Congress Organising
Committee to be the Convenor of the Acid Sulphate Soil Symposium at the 18th World Soils Congress, Philadelphia, in July 2006.

The Centre for Ecotechnology continued its success in attracting funds for projects that assist local government and rural industry to find environmentally friendly solutions to urban and rural waste, and water problems. Research into the efficacy of constructed wetlands at town, village and single unit level continued. A research project into the efficacy of a landfill leachate amelioration system confirmed the success of our design based on ponds, wetlands and vertical flow sand filter for removing ammonium nitrogen from leachate. The year also saw the initiation of a major research contract concerned with the development of a commercial worm based grey-water treatment system. Student projects examining nutrient management on local dairy farms have led to a research grant for further investigations on this topic.

Climate and Environmental Change

The Centre for Geoarchaeology and Palaeoenvironmental Research continued its research projects in New Britain, Thailand, Vietnam and Australia. All projects examined how past environmental change affected the development of past cultures and societies by using microfossils to reconstruct environmental history and to infer human use of landscapes over time. The centre attracted over $42,105 in external research funds and produced 15 refereed journal papers. A highlight was Associate Professor Bill Boyd receiving his Doctor of Science from University of St Andrews, Scotland. This prestigious award recognises outstanding contribution to an academic’s field of research and is one of three Doctor of Science degrees held by staff at SCU.

Associate Professor Graham Jones, while heading a research program on Climate Change in the Great Barrier Reef and Antarctica, participated in the SOLAS (Surface Ocean Lower Atmosphere Study)-SAGE (Subantarctic Gas Experiment) data workshop at NIWA Wellington from 11-13 April 2005. The workshop reviewed data generated from the 2004 iron enrichment experiment in the subantarctic, east of Dunedin. A special issue of Deep Sea Research will present the findings of this $1.5 million dollar experiment involving 46 international scientists.

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The most vulnerable small island states include Fiji, the Maldives, Seychelles, Barbados and the Bahamas. Dr Pathirana produced the report during study leave working as a visiting research scientist with the United Nations Environment Programme (UNEP). He also contributed to another UN publication, ‘One Planet Many People: Atlas of Our Changing Environment’ demonstrating the relevance of satellite remote sensing in global change studies.

Forestry, Forest Ecosystems and Wildlife

Professor Jerry Vanclay of the Centre for Sustainable Forestry chaired the Victorian Government’s Expert Advisory Panel to the Minister of Environment and Water, and acted as Project Leader in the CRC-Forestry.

Dr Doland Nichols, with PhD student Mila Bristow, organised a three-day international meeting held in Ballina, August 5-7 titled ‘Improving Productivity in Mixed-Species Plantations’. Refereed articles will be published in a special edition of the Elsevier journal Forest
Ecology and Management, edited by Jerry Vanclay, Doland Nichols and Mila Bristow.

The research program in Ecosystem Assessment and Monitoring conducted research into the nature and function of plant ecosystems and prediction of change in space and time attracting significant external funding and collaborating with the Australian Academy of Science, the Chinese Academy of Science and in Denmark, South Africa and the USA.

The Centre for Animal Conservation Genetics is a world leader in developing genetic techniques for the conservation of birds, reptiles, mammals and fish, including cooperative projects with Queensland Department of Primary Industries, New South Wales Fisheries and National Parks and Wildlife Service.

The Wildlife Research Program headed by Dr Ross Goldingay conducted research on a broad range of species of threatened wildlife including the green & golden bell frog, Fleay's barred frog, broad-headed snake, eastern pygmy-possum and squirrel glider. Recognition of the expertise in the program led to an increase in contract research projects. Funded research includes collaborative projects with Brisbane City Council on squirrel gliders in urban forest remnants and the value of installed road-crossing structures. The program produced ten refereed journal papers and four conference presentations and includes a number of PhD students and provides training in wildlife studies to many undergraduate students.

Plant Molecular Biology

The Centre for Phytochemistry and Pharmacology is a specialist centre for chemical and pharmacological analysis of herbal medicines, essential oils and novel plant extracts. It has 14 research staff and 13 postgraduate research students. It has strong affiliations with industry and other research entities. The Centre attracted around $750,000 worth of commercial research (in addition to over $1M through their involvement with CRCs).

Associated Entities

The Centre for Coastal Management is a major commercial and applied research entity operated by the School. School staff conducted projects through CCM throughout Australia and overseas valued at more than $284,000.

The Environmental Analysis Laboratory (EAL) part of the Centre for Coastal Management is a teaching, research and commercial consultancy facility. It is equipped with a wide range of analytical instruments and the list of available equipment is continually expanding. The Laboratory has ICP-MS (Inductively Coupled Plasma - Mass Spectrometer), ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry), FIA (Flow Injection Analysis) and CNS Analysers for routine and low concentration metal/salt/nutrient analysis. The EAL annual turnover exceeds $1.2M and conducted over $0.5M of research analyses. Its major areas of research and consultancy include acid sulphate soils, environmental monitoring and remediation, effluent/wastewater and environmental water analysis, agricultural soil and leaf analysis, contamination assessment and mining environmental analysis. The EAL is implementing a Laboratory Information Management System (LIMS) with an implementation cost of over $1.5M to expand its operation throughout Australia and worldwide. Consultancy and research samples already arrive from all areas of Australia and from various surrounding countries.

The National Marine Science Centre, at Coffs Harbour, NSW, is jointly owned and operated by Southern Cross University and the University of New England. Marine research projects conducted by School staff and postgraduates based at the NMSC include research on sea anemone reproduction, coral reproduction and recruitment, and fisheries management. Research projects at the NMSC range from work on the Great Barrier Reef to the sub-Antarctic, with a particular focus on local subtropical systems in the Solitary Islands Marine Park.

The Centre for Plant Conservation Genetics provides research and commercial services in plant gene characterisation, genetic fingerprinting technology and genetic transformation. It employs the most advanced technologies in molecular biology and genetics to address the disciplines of plant genomics, gene isolation, biodiversity studies, bioprospecting, plant breeding, tissue culturing and genetic transformation. Through
its innovative approaches, the Centre is a major participant in five cooperative research centres (CRCs) and developed a growing portfolio of strategic alliances with industry bodies and enterprises conducting contract and collaborative research and development in plant biotechnology. Administration of research students is generally through the School of Environmental Science and Management.

The Centre for Coastal Agricultural Landscapes. The Centre for Coastal Agricultural Landscapes (CALC) is a joint research centre between NSW Department of Primary Industry and Southern Cross University and their aim is improving sustainability of agriculture in coastal landscapes through undertaking and supporting quality research and development relevant to the local region and NSW with national and/or international relevance. CALC, launched in November 2004, represents a major research initiative for SCU with mutual benefits flowing to both parties in the venture.

Awards
Associate Professor Bill Boyd was awarded a Doctor of Science from St Andrews University, Scotland, for a thesis entitled Geographies of Time: Explorations of Landscapes Past and Present.

PhD candidate Jason Coughran won the People’s Choice Award at the 2005 Crux conference for the paper: Coughran, J., Management or prohibition? Implications from proposed amendments to recreational Cray fishing regulations in NSW.

Visiting Scholars
Associate Professor Ronnie Glud from the University of Copenhagen in Denmark worked with Professor Eyre on nitrogen cycling in permeable sands in tropical coastal systems. A Southern Cross University visiting fellowship supported Associate Professor Glud.

The President of South China Agricultural University (Professor Lou) and his distinguished colleagues visited the School in May and toured acid-sulphate soil research sites of CASSR. They discussed potential research collaborations between SCAU and SCU resulting in one new joint research funding application.

Dr Jeff Parr hosted world-renowned specialist in Ancient DNA, Federation Fellow Professor Alan Cooper, from the University of Adelaide.
### Research Funding 2005

#### National Competitive Research Grants

**Rural Industries Research and Development Corporation (RIRDC)**

<table>
<thead>
<tr>
<th>Name</th>
<th>Proposal Title</th>
<th>Grant Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nichols, D</td>
<td>Wood quality analysis from high value, mixed species, agro-forestry systems.</td>
<td>15,959</td>
</tr>
<tr>
<td>Vanclay, J</td>
<td>Improving timber and habitat management of private native forests in north-east NSW.</td>
<td>80,128</td>
</tr>
<tr>
<td>Bush, R</td>
<td>Contemorary sulphur biomineralisation in acid sulphate soil landscapes.</td>
<td>78,367</td>
</tr>
<tr>
<td>Eyre, B</td>
<td>Resolving uncertainty over the importance of N-fixation versus denitrification in coastal systems.</td>
<td>72,733</td>
</tr>
</tbody>
</table>

#### ARC Linkage

<table>
<thead>
<tr>
<th>Name</th>
<th>Proposal Title</th>
<th>Grant Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baverstock, P</td>
<td>Conservation genetics of the endangered Oxleyan Pygmy Perch, Nannoperca oxleyana.</td>
<td>24,650</td>
</tr>
<tr>
<td>Baverstock, P</td>
<td>Movement patterns and habitat utilisation of the endangered eastern freshwater cod, Maccullochella ikei.</td>
<td>65,373</td>
</tr>
<tr>
<td>Baverstock, P</td>
<td>IFAW - Ageing of vertebrates from their DNA: an investigation using humpback whales as an example.</td>
<td>98,020</td>
</tr>
<tr>
<td>Beard, J</td>
<td>Spatial analysis of a linked environmental, health and social data base.</td>
<td>140,234</td>
</tr>
<tr>
<td>Bush, R</td>
<td>Reverting coastal acid sulfate soils to wetlands: Biogeochemical processes and environmental benefits.</td>
<td>48,919</td>
</tr>
<tr>
<td>Bush, R</td>
<td>Restoring hydrological connectivity of surface and ground waters: biogeochemical processes and environmental benefits for river landscapes.</td>
<td>184,570</td>
</tr>
<tr>
<td>Bush, R</td>
<td>Surface-ground water interactions and increasing salinity in the upper Hunter River.</td>
<td>27,148</td>
</tr>
<tr>
<td>Clark, M</td>
<td>Bauxsol based grouts and shotcretes for the control of acid rock drainage.</td>
<td>216,945</td>
</tr>
<tr>
<td>Eyre, B</td>
<td>The importance of sediment denitrification in the nitrogen budget of the inshore wet tropics section of the Great Barrier Reef Lagoon.</td>
<td>30,262</td>
</tr>
<tr>
<td>Eyre, B</td>
<td>The impact of trawling on nitrogen removal through sediment denitrification in Western Moreton Bay.</td>
<td>2,454</td>
</tr>
<tr>
<td>Sullivan, L</td>
<td>Drains in acid sulfate soils: Behaviour and management for optimal water quality.</td>
<td>40,311</td>
</tr>
<tr>
<td>Sullivan, L</td>
<td>Wetland regeneration for effluent reuse, acid sulfate soil management and carbon credits.</td>
<td>9,609</td>
</tr>
<tr>
<td>Vanclay, J</td>
<td>Pest status and management of a Creiss psyllid in eucalyptus plantations in northern NSW.</td>
<td>12,194</td>
</tr>
</tbody>
</table>
### School of Environmental Science and Management

<table>
<thead>
<tr>
<th>Researcher</th>
<th>Title</th>
<th>Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vanclay, J</td>
<td>Mixed species plantations: does diversity help tropical eucalypts grow faster, better, longer?</td>
<td>20,090</td>
</tr>
<tr>
<td>Vanclay, J</td>
<td>Soil physical limitations to growth in sub-tropical hardwood plantations.</td>
<td>24,650</td>
</tr>
<tr>
<td>Vanclay, J</td>
<td>Integrated carbon accounting and information management systems.</td>
<td>67,877</td>
</tr>
</tbody>
</table>

**Other Public Sector Research Funding**

- **Australian Institute of Nuclear Science & Engineering**
  - Parr, J: Quantification of the plant phytolith organic carbon (PhytOC) contribution to soil total carbon. 10,980
  - Parr, J: Refining the late Holocene sea-level curve for north Vietnam. 5,632

- **Australian Academy of Science**
  - Specht, A: Soil and physiological processes causing deterioration of coastal eucalypt forests. 29,580

- **Brisbane City Council**
  - Goldingay, R: Collaborative arboreal mammal ecology research program. 17,565

- **Byron Shire Council**
  - Bolton, K: West Byron and Bangalow effluence reuse sites. 31,182

- **Commonwealth Dept of Health & Ageing through ARHEN Ltd**
  - Beard, J: Investigation of general practice/hospital integration issues in rural and remote Australia. 63,555

- **Dept of Conservation and Land Management of WA (CALM)**
  - Harrison, P: A new method for estimating drupella SPP density in the Ningaloo Marine Park. 6,760

- **Dept of Environment and Heritage**
  - Harrison, P: Genetic assessment of Group IV (Western Australia) and V (Eastern Australia) humpback whale population dynamics and migratory interchange. 38,593

- **Dept of the Environment and Heritage (Antarctic Scientific Advisory Committee)**
  - Australian Antarctic Division
    - Jones, G: Factors affecting DMS in the seasonal ice zone. 397

- **Dept of Sustainable Natural Resources**
  - Rossicky, M: Landuse change at Tuckean Swamp. 5,591

- **Environmental Training and Employment Inc (EnviTE) NSW**
  - Baverstock, P: Services in relation to the protection and restoration of Myrtle Creek in the Bungawalbyn. 4,316
### Gold Coast City Council

<table>
<thead>
<tr>
<th>Name</th>
<th>Project Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specht, A</td>
<td>The effects of exotic plant exudes on in-stream invertebrate biodiversity.</td>
<td>4,157</td>
</tr>
</tbody>
</table>

### Lismore City Council

<table>
<thead>
<tr>
<th>Name</th>
<th>Project Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Davison, L</td>
<td>Leachate pond and VFW.</td>
<td>8,000</td>
</tr>
<tr>
<td>Davison, L</td>
<td>Reed beds, assessing the effect of depth on treatment performance.</td>
<td>5,000</td>
</tr>
</tbody>
</table>

### New South Wales Agriculture

<table>
<thead>
<tr>
<th>Name</th>
<th>Project Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sullivan, L</td>
<td>ASS drain management: improving water quality.</td>
<td>2,025</td>
</tr>
</tbody>
</table>

### New South Wales Department of Infrastructure, Planning and Natural Resources

<table>
<thead>
<tr>
<th>Name</th>
<th>Project Description</th>
<th>Cost</th>
</tr>
</thead>
</table>
| Jay, A     | 1. Study of on ground impacts of different versions of the draft Code of Practice for input: economic impact of Code of Practice;  
            | 2. A comparison study of on ground impacts of different versions of the draft Code of Practice for private native forests in UNE NSW. | 12,000|
| Lloyd, D   | Audit and assessment of Aboriginal sites and places.                                  | 45,200|
| Lloyd, D   | Training Aboriginal members on NREM committees.                                       | 10,000|
| Lloyd, D   | Mapping of Bundjalung national tribal boundaries.                                     | 25,200|

### New South Wales Department of Primary Industries

<table>
<thead>
<tr>
<th>Name</th>
<th>Project Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butler, G</td>
<td>Spawning behaviour of the endangered eastern freshwater cod, Maccullochella ikei.</td>
<td>4,995</td>
</tr>
<tr>
<td>Whelan, M</td>
<td>Software redevelopment.</td>
<td>10,300</td>
</tr>
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</table>

### New South Wales Fisheries

<table>
<thead>
<tr>
<th>Name</th>
<th>Project Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boyd, W</td>
<td>Assessment of changes to fish habitat in the Richmond catchment using historic records and oral histories.</td>
<td>207</td>
</tr>
<tr>
<td>Knight, J</td>
<td>Reproductive biology of the endangered Oxleyan pygmy perch Nannoperca oxleyana in north-eastern NSW: histology of the ovaries.</td>
<td>1,507</td>
</tr>
</tbody>
</table>

### New South Wales Fisheries, (Recreational Fishing Saltwater Trust)

<table>
<thead>
<tr>
<th>Name</th>
<th>Project Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baverstock P &amp; Moore, A</td>
<td>Assessment of recreational fishing havens in northern NSW (also implementation of video transect and baited video as a sampling method to estimate fish abundances)</td>
<td>141,572</td>
</tr>
</tbody>
</table>

### New South Wales Health

<table>
<thead>
<tr>
<th>Name</th>
<th>Project Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beard, J</td>
<td>Drug Integrated Care Trial (Integrated care trial for drug dependent women - WRAP).</td>
<td>20,416</td>
</tr>
<tr>
<td>Beard, J</td>
<td>Priority health care evaluation.</td>
<td>2,167</td>
</tr>
</tbody>
</table>
### New South Wales Health R&D Infrastructure Program

**Beard, J**  
Mental Health.  
13,986

### New South Wales Parks Authority

**Harrison, P**  
1. Expansion of the fine scale biodiversity project at Lennox Head to include analysis of inputs into the Lennox Head reef and moat (bream hole) and impacts on water quality;  
2. Fish communities of CBMP;  
16,364

### Northern Rivers Catchment Management Authority

**Jay, A**  
Private native forestry for farm production and biodiversity.  
60,000

**Bucher, D**  
Sustainable marine resource management - community awareness.  
14,400

### Qld Dept of Primary Industries and Fisheries

**Baverstock, P**  
Using telomere DNA to age fish and crustaceans.  
15,000

### Queensland Environmental Protection Agency

**Harrison, P**  
Benthic community surveys of reef habitats in Woongarra Marine Park, Queensland and at the Four Mile Reef.  
8,205

### Rous Water

**Jones, G**  
Innovative bloom management strategies to minimise blue-green algae and nuisance weed growth in Emigrant Creek Dam, Northern NSW.  
10,126

### Tasmanian Dept of Primary Industries, Water and Environment

**Clark, M**  
Investigations on acid drainage remediation using locally derived materials for Savage River, Tasmania.  
14,314

### Industry and Other Funding for Research

#### Australian Geographic

**Fury, C**  
All estuaries are not equal: dolphins habitat use in estuaries in Australia.  
300

**Taylor, B**  
Why did the bandicoot cross the road?  
A radio-tracking study of bandicoots using road underpasses.  
5,000

#### Australia and Pacific Science Foundation

**Tafts, K**  
Development of a diatom water quality calibration set for coastal lakes of NSW, a tool for effective lake management and restoration.  
2,903

#### Bio Actives Export Pty Ltd

**Leach, D**  
Chemistry, bio-activity and quality specifications for centipeda cunninghamii raw material, extracts and finished products.  
14,375
## School of Environmental Science and Management

<table>
<thead>
<tr>
<th>Organization</th>
<th>Sponsor</th>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blackmores/University of Queensland</td>
<td>Stevenson, L</td>
<td>Honours scholarship.</td>
<td>9,894</td>
</tr>
<tr>
<td>BSP Pharma A/S</td>
<td>Brooks, L</td>
<td>Statistical analysis of psoriasis clinical trial data.</td>
<td>3,300</td>
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<tr>
<td>Coffs Harbour Student's Association</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Baeverstock, P</td>
<td></td>
<td>Honours scholarships at Coffs Harbour campus.</td>
<td>5,000</td>
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<tr>
<td>CIBA Vision</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Morris, C</td>
<td></td>
<td>Tear film markers.</td>
<td>46,833</td>
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<tr>
<td>Morris, C</td>
<td></td>
<td>Tear film markers (Stage 2).</td>
<td>63,442</td>
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<tr>
<td>Eco Technology Australia Ltd</td>
<td>Bolton, K</td>
<td>Fellowship for research into ecotechnology.</td>
<td>2,500</td>
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<tr>
<td>Ecotech R&amp;D Pty Ltd</td>
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<td></td>
<td></td>
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<tr>
<td>Vanclay, J</td>
<td></td>
<td>Systems for creating greenhouse abatement certificates.</td>
<td>11,000</td>
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<tr>
<td>Environment Australia</td>
<td>Paton, D</td>
<td>South Pacific Island Whale and Dolphin Program.</td>
<td>890</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pilot survey of cetaceans in Samoan waters and associated workshop.</td>
<td></td>
</tr>
<tr>
<td>Fitzroy Basin Association Inc</td>
<td>Harrison, P</td>
<td>Distribution and abundance of Irrawaddy dolphins and Indo-Pacific Humpback dolphins in the southern Great Barrier Reef.</td>
<td>58,892</td>
</tr>
<tr>
<td>Fonterra Co-operative Group Ltd of NZ</td>
<td>Stevenson, L</td>
<td>Health and nutrition.</td>
<td>3,636</td>
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<tr>
<td>G. Harvey Nominees Pty Ltd</td>
<td>Keene, A</td>
<td>Natural sequence farming-demonstration and analysis-Stage 2.</td>
<td>155,000</td>
</tr>
<tr>
<td>Hermon Slade Foundation</td>
<td>Ladds, P</td>
<td>Preparation and publication of a reference book on pathology of Australian wildlife species.</td>
<td>14,270</td>
</tr>
<tr>
<td>International Fund for Animal Welfare</td>
<td>Harrison, P</td>
<td>Cetaceans Vs Samoan longline fishing industry.</td>
<td>11,011</td>
</tr>
<tr>
<td></td>
<td>Lloyd, D</td>
<td>Survey of the cultural significance of marine mammals in Vanuatu.</td>
<td>6,936</td>
</tr>
<tr>
<td>James Cook University</td>
<td>Parr, J</td>
<td>Geoarchaeological and palaeoenvironmental research.</td>
<td>400</td>
</tr>
</tbody>
</table>
### Summerland Credit Union

<table>
<thead>
<tr>
<th>Author</th>
<th>Project Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Harrison, P</td>
<td>Support for the Whale Centre in humpback whale research.</td>
<td>2,500</td>
</tr>
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</table>

### Virotec International Ltd

<table>
<thead>
<tr>
<th>Author</th>
<th>Project Description</th>
<th>Amount</th>
</tr>
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<tbody>
<tr>
<td>McConchie, D</td>
<td>Geochemical engineering research officer.</td>
<td>51,241</td>
</tr>
<tr>
<td>McConchie, D</td>
<td>The use of Bauxsal for contaminated site remediation.</td>
<td>87,018</td>
</tr>
<tr>
<td>McConchie, D</td>
<td>The use of Bauxsal to treat acid sulfate soils and sulfide mine tailings.</td>
<td>4,392</td>
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<tr>
<td>McConchie, D</td>
<td>Development of red mud technology, mine site remediation and acid sulphate soils (teaching relief).</td>
<td>126,370</td>
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### Gartside, D

<table>
<thead>
<tr>
<th>Project</th>
<th>Amount</th>
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<tr>
<td>Scholarships</td>
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### World Health Organisation

<table>
<thead>
<tr>
<th>Author</th>
<th>Project Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Egger, G</td>
<td>Building capacity in Tonga and Fiji for planning, implementing and evaluating mass consumer awareness and motivation for healthy diets and lifestyles.</td>
<td>20,605</td>
</tr>
</tbody>
</table>

### Cooperative Research Centre/s (CRC) Funding

#### Bushfire CRC Ltd

<table>
<thead>
<tr>
<th>Author</th>
<th>Project Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>McBeth, B</td>
<td>Top-up scholarship.</td>
<td>16,000</td>
</tr>
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</table>

#### CRC for Cotton Catchment Communities

<table>
<thead>
<tr>
<th>Author</th>
<th>Project Description</th>
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<tr>
<td>Leach, D</td>
<td>Managing Helicoverpa spp. and sucking pests on cotton using semiochemicals.</td>
<td>9,815</td>
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### Cooperative Research Centre (Sustainable Tourism)

<table>
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<tr>
<th>Author</th>
<th>Project Description</th>
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<tr>
<td>Zann, L</td>
<td>Tourism values and sustainable use of ICOLLs.</td>
<td>20,700</td>
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### CRC for Innovative Grain Food Products

<table>
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<th>Author</th>
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<tr>
<td>Baverstock, P</td>
<td>Grain Foods CRC Education Program Scholarships.</td>
<td>720,806</td>
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<td>Baverstock, P</td>
<td>Grain Foods CRC Education Program Workshops.</td>
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<tr>
<td>Baverstock, P</td>
<td>Grain Foods CRC Education Program Course Development.</td>
<td>107,500</td>
</tr>
<tr>
<td>Leach, D</td>
<td>Genetic manipulation of pulses for improved flavour and colour.</td>
<td>66,672</td>
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<tr>
<td>Leach, D</td>
<td>Biologically active secondary metabolites from grains.</td>
<td>20,165</td>
</tr>
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</table>
Theses Approved

PhD

Coughran, J. A. (D. Gartside)
Biology of the Freshwater Crayfishes of Northern New South Wales

Davies, Peter (B. Eyre)
An evaluation of applications of satellite imagery in the study of coastal ecosystems.

Fischer, Esther (G. Jones and P. Harrison)
DMSP, DMS, and urea as short-term indicators of the physiological stress response of Acropora intermedia to elevated nutrients and temperatures.

Harvey-Jones, Jonathon (A. Specht)
Water relations of transplanted tree seedlings.

Johnston, Scott (L. Sullivan and Slavich (DPI)
The hydrology, biogeochemistry and management of drained acid sulphate soil backswamps in the Lower Clarence River floodplain.

Kariuki, Maina (J. Vanclay)
Modelling rainforest dynamics for suitable management in uneven-aged mixed species stands: with specific reference to the subtropical rainforest of North-east New South Wales, Australia.

Mosaddik, M.A. (P. Waterman)
Phytochemical and Biological Studies on some Australian Flacourtiaeae

Scott, Leon (M. Shepherd)
Implications of evolutionary history and population structure for the analysis of quantitative trait loci in the ancient conifer Aaucaria cunninghamii.

Master of Science

Munyasi, Joseph (D. Nichols)
Adoption of weed management technologies for natural pasture improvement in South-eastern Kenyan rangelands.

Master of Environmental Science

Berry, Caroline
Bhuiyan, Quddus, M.G.
Fernandes, Mercia
Gosselin, Joanne
Perera, Edward
Stephens, Nicholas

Honours

Bates, Michelle
Zinc Partitioning between the Tissue, Zooxanthellae and Skeleton of the Scleractinian Coral Goniastrea aspera.

Bennett, Cathrine
A Quantitative Survey of Benthic Communities in Hervey Bay Queensland.

Bonner-Knowles, David
Wastewater Irrigation: Impacts on Groundwater Phosphorus In A Peat Wetland.

Buchanan, Nat
Applying the Capabilities of Geographic Information Systems to Modeling Tourist Dispersal within Australia.

Bunting, Kylie
Microsatellite Library for the Hasting River Mouse Pseudomys oralis.

Dawson, Samuel
Ecological History of the Oxley River Tweed Valley, NSW.
Fitzgerald, Tim  
The Discovery of Fgr by the Analysis of Polymorphisms in Chromosome 8 of Rice.

Flynn, John  
Optimum Calcination Conditions for the Activation of a Dolomite/Magnesite Mixture to Treat Acid Rock Drainage at Savage River Tasmania.

Ianna, Shantele  
The Effectiveness of a Baited Remote Underwater Video (BRUV) to Monitor Estuarine Fish Populations in the Lower Richmond River Estuary.

Jones, Rhys  

Lewis, Bonnie  
Behavioral Interactions of Bottlenose Dolphins (Tursiops aduncus) Feeding From Ballina Prawn Trawlers NSW.

Lierich, David  
History of Coastal Erosion in Byron Bay and community Attitudes to Management Strategies.

Maher, Damien  
The Effect of the Burrowing Bivalve Theora fragilis (A. Adams) on Benthic Nutrient Cycling and Phyto plankton Dynamics in the Brunswick River Estuary.

McCardell, Anthony  
A Hydrus-1D Model for Irrigation of Kenaf in North Eastern NSW.

Taylor, Lea  
Distribution and Abundance of the Crown of Thorns Seastar (Acanthaster planci) and its Effects on the Coral Reef Communities of Lord Howe Island.

Toms, Kelly  
Comparison of Feeding Ecology And Behaviour of Bottlenose Dolphin (Tursiops aduncus) In Two Rivers in Northern NSW Australia.

Publications

Books


Book Chapters

- Karagianis, G. and Waterman, P.G., LC-NMR in Dereplication and Structure Elucidation of Herbal Drugs. In, Handbook of Modern Magnetic Resonance (D Craik, ed.)
School of Environmental Science and Management


Journals


Boyd, W.E. & Gardiner, J.E., Stooking the peanuts: Historical agriculture and the management of a dying seasonal landscape northeast New South Wales. Landscape Research, 30 (2, 193-220.


Coughran, J., New crayfishes (Decapoda: Parastacidae: Euastacus) from northeastern New South Wales, Australia. Records of the Australian Museum, 57, (3); 361-374.
Cullen, M., ‘Environmental Science cooperative education: Benefits for the student, the host organisation, and the study program’, *Asia Pacific Journal of Cooperative Education*, 6, (2), 1-6. (ISSN 1157-2882)


Headley, T., Herry, E. and Davison, L., Treatment at different depths and vertical mixing in a 1-m deep horizontal subsurface-flow wetland, Ecol. Eng., 25, 5, 567-582.


Huang P., Karagianis G., Wei, S. X. and Waterman, P. G., Triterpene acids from Taddalia asiatica. Natural Product Research and Development, 17: 404-408.


Mosaddik M. A., Flowers, A., Karagianis, G. and Waterman, P. G., New phenolic glycosides from the stems and leaves of *Casearia multinervosa*. *Natural Product Research*.


Singh, A., Pathirana, S. Hua, Shi,... Assessing coastal vulnerability: Developing a global index for measuring risk, Division of Early Warning and Assessment (DEWA), UNEP.

Smith, R.G.B. and Nichols, J.D., Patterns of basal area increment, mortality and recruitment were related to logging intensity in subtropical rainforest in Australia over 35 years. *Forest Ecology and Management*. 218 (1-3): 318-328.


Conferences


Rouse, J., McConchie, D., Clark, M. and Best, D., The use of hybrid or multi-stage permeable reactive barriers or above-ground reaction cells. ECOR-2, Second European Conference on Oxidation and Reduction Technologies for Ex-Situ and In-Situ Treatment of Water, Air and Soil; InterCity Hotel Göttingen, Germany; Abstracts volume, p147.


Overview of Research

The School continued its research activities in the area of Sport, Exercise and Related Health Issues.

In exercise science, research concentrated on neuromuscular physiology, drugs and nutritional supplements in high performance sport, biomechanics, behavioral aspects of sport and physical activity, chronic fatigue syndrome, long term consequences of sport injuries, and fatigue in contemporary dance.

In sport management, research concentrated on commercialisation of sport, sport marketing and sponsorship, and sports law.

Research Highlights

Dr Sonya Marshall-Gradisnik, a postdoctoral research fellow in the School was awarded the John Sutton Young Investigator Award for Basic Science at the 2005 Australian Conference of Science and Medicine in Sport, in Melbourne in October for her contribution to the Testosterone enanthate/anabolic androgenic steroid research carried out as part of the Mentorn television documentary for the Athens Olympic Games.

She was part of a team of researchers led by Associate Professor Robert Weatherby and comprised Associate Professor Shi Zhou, Mr Rudi Meir, Ms Rosanne Coutts, Mr Shane Rogerson and Dr Glen Deakin. The paper for which the award was won was titled *Natural killer cell numbers and natural killer cytotoxic activity after six weeks of testosterone enanthate administration in healthy young males.*

An Italian company, Globus, donated two electrical stimulators to support a research project conducted by Associate Professors Shi Zhou and Allan Davie, and PhD candidate Pedro Bezerra. The project is titled *An investigation on the application of electromyostimulation in improving muscular performance and its underlying mechanisms.* Pedro’s PhD study is supported by a Postgraduate Scholarship from the Foundation of Science and Technology, Department of Science, Technology and Tertiary Education, Portugal.

Honours student, Ms Roz Beavers was awarded the University Medal for her Thesis entitled, *An assessment of exercise interventions on cardiovascular disease risk factors, strength and cardiorespiratory fitness in subjects with the Metabolic Syndrome* and was the first recipient of the ASLaRC Honours Scholarship.

Mr Rudi Meir was re-accredited with distinction by the National Strength and Conditioning Association of U.S.A. in recognition of extraordinary achievement in continuing education activities and for contributing to the strength and conditioning profession by research.

Invited Presentations/Participation

- Associate Professor Shi Zhou continued his research collaboration with colleagues at Tianjin Institute of Physical Education, China, and was invited as a co-investigator in a project titled *A physiology and molecular biology investigation on the effects of exercise intervention in prevention and treatment of degenerative muscular disorders,* which was supported by a special grant from the Science and Technology Committee of Tianjin Municipal Government, China. He was invited to present a Forum Lecture at the 4th SCSEPF Annual Conference Health and Scientific Training of Elite Athletes, which was held at the Chinese Culture University, Taiwan. The title of the presentation was *Fatigue and recovery-implications in concurrent strength and endurance training.*

- Associate Professor Robert Weatherby was an invited speaker at the National Ethics in Research conference in Canberra in May organised by the National Health and Medical Research Council (N.H. & M.R.C.). He spoke on the ethics of clinical trials.

- Dr Wendy Gilleard was the Invited Speaker at the International Women’s Day Lunch Forum on the theme *Women sport and Physical Activity.*
School of Exercise Science and Sport Management

- Mr Mark Fisher, Sports Technologist was invited to membership of the Technical Committee of the NSSQA (National Sports Science Quality Assurance) which oversees the Australian Sports Commission's Laboratory Standards Accreditation Scheme.

Awards, Distinctions, Prizes
Associate Professor Shi Zhou was re-elected as a Council Member of the Society of Chinese Scholars on Exercise Physiology and Fitness.

Current Research

Biomechanics
Dr Wendy Gilleard leads this research focus which is involved with investigating the effects of increased body size, including mass and dimensions, on movement and posture. A second area Dr Gilleard leads is Fatigue protocols in dance which has been investigating the physiological, psychological and biomechanical responses to a fatigue inducing protocol specifically developed for contemporary dancers.

Dr Gilleard is also involved in collaborative projects, with the University of Wollongong.

Chronic Fatigue Syndrome
PhD candidates Rosanne Coutts, Geoffrey Hallman and Masters candidate Jim Challenor continued working on strategies whereby specific exercise programs can assist in the recovery of sufferers of chronic fatigue syndrome.

Drugs in Sport
Associate Professor Robert Weatherby leads this research focus which is carried out in collaboration with the Australian Sports Drug Testing Laboratory. The group has concentrated on the health implications of the anabolic androgenic steroids and putative herbal replacements and the role of steroid hormones in muscle performance together with central nervous system stimulant drugs. PhD students Angus Halliday, Shane Rogerson, Aaron Silk and Blair Crewther work in this area.

Health and Wellbeing
Associate Professor Allan Davie and local physician Dr Andrew Binns, continued their exercise programs for overweight and obesity, which have successfully combined the professional training for undergraduate students, research and service to the community.

Long-term Consequences of Sport Injuries
Associate Professor Robert Weatherby and Mr Rudi Meir, investigated the long-term injury consequences in baseballers utilizing a grant from the NSW Sporting Injuries Committee. Former elite sports players have been found to suffer debilitating consequences from injuries sustained when playing with them requiring additional support from already strained health care systems and suffering decreased quality of life in older age.

Neuromuscular Physiology
Associate Professor Shi Zhou continued his research on the effects of unilateral motor activity on motor performance of the contralateral limb.

Rugby Research
Mr Rudi Meir continued his work into the physical preparation of professional rugby players. The research investigated fluid replacement and hydration in international rugby tournaments and the visual fitness training in the preparation of professional players for play.

Sport Law
Mr Terry Woods continued to research aspects of sport law. In particular he continues to conduct his research into the legal aspects of athlete selection.

Sport Management
Mr Terry Woods continued to supervise a variety of research projects within the Master of International Sport Management program. The research projects included athletic selection disputes, sport tourism and sports law.
School of Exercise Science and Sport Management

Theses Approved

The following research higher degree and honours theses were approved in 2005.

**PhD**

Levinger, Pazit (Dr W. Gilleard)
*Rearfoot and Tibia Motion in Females with Patellofemoral Pain Syndrome.*

Wang, Jianxiong (Dr S. Zhou)
*Therapeutic Effects of Ginkgo Biloba Treatment, Supervised Exercise Program,* and *Percutaneous Transluminal Angioplasty in Patients with Peripheral Arterial Disease.*

**PhD (Qual)**

Gillett, Patrick V. (Dr S. Kelly)
*Sport Marketing and Branding Issues.*

**Honours**

Beavers, Roz (A/Prof Allan Davie)
*An assessment of exercise interventions on cardiovascular disease risk factors, strength and cardiorespiratory fitness in subjects with the Metabolic Syndrome.*

Publications

**Journals**


**Conferences**


School of Exercise Science and Sport Management

Coutts, R., Davie, A. & Weatherby, R. Heart rate monitored walking as an intervention for patients with chronic fatigue syndrome. *Australian Conference in Science and Medicine in Sport*, Melbourne, October.


Coutts, R., Reilly, K. & Weatherby, R. Contact and non-contact sports and sexual aggression within Australian sporting teams: a preliminary investigation. *Australian Conference in Science and Medicine in Sport*, Melbourne, October.

Gilleard, W., Crosbie, J. and Smith, R. Effect of arm use on head and trunk segment motion when rising from a chair. *Proceedings of the 20th Congress of the International Society of Biomechanics*, Cleveland, USA.


Gilleard, W. and Smith, T. Effect of obesity on standing work posture *XVII conference of International Society for Posture and Gait Research*, Marseilles, France.


**Research Consultancy and Reports**

Meir, R. & Weatherby, R. Long term injury consequences of playing baseball. A research report to the New South Wales Sporting Injuries Committee, September
Research Highlights

Overview of Research

As part of the Designated Area of Research Strength in Health Promotion and Disease Prevention, active researchers working in the Department of Nursing and Health Care Practices maintained a steady output of research projects, postgraduate research student completions and publications.


Dr Kay R. Ogle was awarded the Chancellor’s Outstanding Thesis award in April.

Associate Professor Nel Glass was active with three research projects this year: the major research topic was Professional development and emotional integration in workplace practices. Resulting from the three research projects was a solo art exhibition (Glass N. ‘Look at me—feel it’) comprised of 29 stills/images forming part of the data. This body of work deals with emotional healing, optimism, personal and professional growth. The exhibition is scheduled at NEXT gallery, SCU.

Associate Professor Glass conducted six seminars, focused on qualitative research methodologies, research results on workplace practices and more generally, research outputs of the School of Nursing and Health Care Practices. They were:

- Glass, N. Demystifying qualitative research: Challenges with research methods. Annual DAORS retreat for ARIST, School of Tourism and Hospitality Management, SCU, Byron Bay, NSW, 28th October.
- Glass, N. An opportunity for challenge: A study abroad experience with the School of Nursing & Health Care Practices, Southern Cross University. Hochschule Bremen University of Applied Sciences, Bremen, Germany, 18th October.
- Glass, N. An Introductory presentation of Southern Cross University, Australia. IBMEC, Singapore, 16th September.
- Glass, N. Workplace practices in the academy—Inverting the marginalised discourses of hope, optimism & career resilience. Postgraduate seminar: School of Nursing & Health Care Practices, Southern Cross University, 12th July.
- Glass, N. Current nursing research, NRUDRH/N&HCP Research Seminar, Southern Cross University, 4th July.
- Glass, N. Doing qualitative research School of Tourism & Hospitality Management, Southern Cross University 4th May.

Dr Tony O’Brien, Professor Judy Atkinson, Gordon Aman and Steve Blunden collaborated in interdisciplinary research into Digital Storytelling and Aboriginal Culture and the project was submitted for a NHMRC Grant. Tony also submitted an article with Frances Doran to the Health Promotion International Journal in December 2005, relating to focus groups with pregnant women exploring lifestyle issues of gestational diabetes mellitus and physical activity in groups of Indigenous women located in Northern NSW and South East Queensland as well as a group of women in Samoa.

Dr John Stevens published his book on dementia, titled: Is it dementia or just old age? He appeared on television and spoke to over 15 regional ABC Radio commentators about dementia.

School researchers continued offering research opportunities to clinical agencies. Dr John Stevens engaged in research at the Crowley Retirement Village and assisted in the development of a research culture.

Four projects commenced:

- Outcomes of nursing home residents following transfer to hospital.
- A randomised trial of a range of aromatherapy blends.
• The perceptions and experiences of people entering a residential facility for the first time.
• Work practices in residential aged care and the ageing nursing workforce.

John completed the NSW Cancer Council funded project on breast cancer surgery research: *Sentinel Node Versus Axillary Clearance (SNAC) in Breast Cancer Surgery* and submitted results as part of a national trial.

**Visiting Scholarship**

Associate Professor Nel Glass was Visiting Scholar at the Graduate School of Nursing and Midwifery, Victoria University of Wellington, New Zealand, the School of Nursing, Midwifery and Social Work, University of Manchester, England, and the School of Health in Social Science, University of Edinburgh, Scotland. She researched the relationship of hope, optimism and resilience to effective workplace practices for academics in nursing and midwifery and presented seminars based on her research to graduate students, staff and members of the academic and health related community.

Outcomes include:


Glass, N. *Mental health nursing interventions: Experiences in Australia*. 3rd year DPSN, Mental Health Branch, School of Nursing, Midwifery and Social Work, University of Manchester, England, UK, September 27.

Glass, N. *Hope, resilience and optimism in nursing workplace relationships: An opportunity for moving on?* The School of Nursing, Midwifery and Social Work, University of Manchester, UK. September 29.

Glass, N. *Reframing workplace experiences in the academy: Hope, optimism and career resilience*. The School of Health, University of Edinburgh, Scotland, UK, October 11.

Glass, N. *The use of art as a creative expression for anger-management & understanding mental health*. 4th year BNurs (Hons), School of Health in Social Science, University of Edinburgh, Scotland, UK October 12.

**Other Research Projects from N&HCP**

Adams-Jackson, J., Glass, N. *Women’s Madness: A Feminist Discourse Analysis*

Barnes, L., Orrock, P., Stevens, J. *The Perceived Effects of Naturopath Students’ Placement in a Palliative Care Unit*

Barbie, S., Stevens, J. *Perceived Risk by Nurses in Caring For People with Dementia*

Barling, J., Taylor B. *Exploring Families’ Experiences of the Dying and Death of an Adolescent Family Member: A Narrative Approach*

Barwick, J., Taylor, B., Davis K. *Mental Health and Older Women: A Critical Feminist Exploration*

Brownie, S., Stevens J. *The Use of Nutritional Supplements by People Older than 65 Years*

Chinnawong, T., Taylor B. *The Influence of the Buddhist Culture on the Nurse-Patient-Relative Relationship in Thailand*

Cronin, S., Taylor, B., Newell C. *When Epistemology, Medicine, Sex and Gender Meet: Towards the Ethical Treatment of Intersex People*

Davis, K. *A critical exploration of nurses’ knowledge of, and experiences with, child protection in the context of domestic violence*
Dick-Read, L., Taylor, B.
Experiences of Natural Birth: A Grounded Theory Approach

Distel K., Davis K., Taylor B.
An Integrative Approach to Learning Difficulties

Doran, F., Davis K., Egger G.
A Cross Cultural Exploration of Exercise, Pregnancy and Gestational Diabetes with Implications for Preventive Interventions

Doran, F., O’Brien, A.
Establishing and Validating Women’s Health Promotion Needs in Multi-Site Women’s Health Care Settings: Understanding Multicultural Viewpoints

Edwards, P., O’Brien A., Kermode S.
Rural Adolescent Males and Anger Management: Rock and Water

Fisher J., Davis K., Kermode S.
Mental Health Nursing in Transition: A Critical Social Theory Perspective

Flynn, J., Kermode, S., Taylor B.
Developing Quality Output Measures for Nursing Care: A Grounded Theory Approach

Gilmour, J., Glass, N., Davis K.
Good Grief, Bad Grief: Unacknowledged and Unsanctioned Grief In Women’s Lives

Glass, N.
An Investigation of the Lived Experiences of Women Nurse Academics’ Professional Development in Universities— Phase Three

Glass, N.
Professional Integration: Positive Framing in Workplace Development with Women Nurse Academics

Glass, N.
A Critical Exploration of Nurses and Health Care Workers’ Professional Development and Emotional Integration

Glass, N., Ogle R., Pannowitz H., Clarke E.
Workplace Practices: The Lived Experiences of Being a Nurse Manager and of Managing Nurses

Hampshire, W., O’Brien A.
Living with Death: Towards an Aboriginal Perspective of Understanding Grief and Bereavement

Harris, M., Davis K., Griffiths J.
Women, Midlife, Menopause and Ageing: A Postmodern Feminist Exploration of the Multiple Layered Realities of Menopause

Hoskins, A., & Stevens J.
A Trial of Three Warming Strategies to Prevent Hypothermia in Day Surgery

Jackson K., Taylor B.
Energy Healers’ Accounts of Changes in People Approaching Death Consciously

James, H., Taylor B.
Exploring Woman-Centred Care in Midwifery

Joyce S., Glass N.
Integration of Self: A Feminist Critique of Art Therapy and Lesbian Identity

Keil P., Kermode S.
A Study of the Use of Self-Help Strategies in Managing Depression

Kermode, S.
Sexism in Nurse Education: A Cross-Sectional Study of Graduate Perceptions

Kermode, S.
The Effects of Globalisation on Men’s Health in Palau

King, V., Taylor B.
Midwives’ and Mothers’ Perspectives of Postnatal Care: A Phenomenological Approach

Livingstone, W., van de Mortel T., Taylor B.
The Patient’s Experience of Diabetes - Related Amputation

Morgan, A., Stevens J.
A Randomised Placebo Controlled Trail of Bacopa Moniera on People in the Community with Behaviours Related to Dementia

Myers, E., Taylor, B.
Midwife to Gaia: A Reflective Topical Autobiography

Nuske, E., Taylor B.
The Lived Experience of Natural Children of Foster Families

O’Brien, A.
Refining the Professional Practice Audit Questionnaire (PPAQ) for Mental Health Nurses in Australia
School of Nursing and Health Care Practices

Digital Storytelling and Aboriginal Culture

O’Brien, A., Hampshire, W., Petersen, J., Van der Klei J., Rowley, J.
Health Education and Equity Grant

Ogle, R., Glass, N.
Shifting (Com)Positions on the Subject of Management: A Critical Feminist Postmodern Ethnography of Critical Care Nursing

Orrock, P., Stevens, J.
The Effects of Massage on People in Palliative Care and Their Visitors

Pannowitz, H., Glass, N., Davis, K.
An Integrated Feminist Exploration of the Experiences of Nurse Managers in Western Australia

Parry, A-M., Taylor, B.
The Lived Experience of Motherhood for First Time Mothers Over the Age of 35 Years

Pascoe, S., Taylor, B.
The Lived Experience of Being Resuscitated in Emergency Department

Rose, J., Glass, N.
Emotional Wellbeing, Emotional Work and Professional Practice: The Lived Experiences of Women Community Health Nurses Providing Palliative Care in the Home Environment

Rowley, J., Taylor, B.
Exploring the Experience of a Good Death in Aged Care Facilities

Savage, L., Stevens, J.
Health in Cuba

Schneider, A., Stevens, J.
The Effects of the Lunar Cycle On People With Dementia

Sheen, J., Stevens, J.
The Professionalisation of Aromatherapy

Simon, R., Porritt, L., Stevens J.
Sentinel Node Versus Auxillary Clearance in Breast Cancer Surgery

Sriyotin, B., Taylor, B.
Self Help Strategies for Thai People with Arthritis: A Grounded Theory

Stevens, J.
Choosing to work in aged care: why so many nurses do not

Stevens, J., Staff of Crowley Village, Ballina
Why do cognitively intact older people fall?

Stevens, J., Staff of Crowley Village, Ballina
Outcomes of older residents transferred to acute care

Stevens, J., Staff of Crowley Village, Ballina
Perceived experiences of older people transferring to an aged care facility

Stirling, C., Taylor, B., Atkinson, J.
The Palliative Care Needs of the Bundjalung People of Northern NSW

Taylor, B.
Improving Nursing Practice Through Action Research and Reflective Practice

van de Mortel, T., Taylor, B.
A Cross-cultural Comparison of Health Care Students’ Hand Hygiene Knowledge, Attitudes and Behaviours.

Ward, L., Glass, N., Davis, K.
A Critical Feminist Exploration of the Workplace Culture, Experiences and Practice of Women Mental Health Nurses Within an Acute Inpatient Facility

Weber, M., Davis, K.
An Evaluation of a Regional, Rural Community-Based Eating Disorders Assessment and Referral Service

Westwood, S., Taylor, B., Martin, M.
Using Metaphor to Explore Chronic Pain

Yates, I., Taylor, B.
Enhancing Advanced Nursing Practice: An Action Research and Reflection Approach

Zammit, C., Taylor, B.
The Lived Experience of Dying: A Reflective Topical Autobiography

Zask, A., Kermode, S.
A Study of The Effectiveness Of a Health Promotion Program On The Playground Activity Of Primary School Children
School of Nursing and Health Care Practices

Theses Approved

**PhD**

Ogle, Kay R.
*Shifting (com) positions on the subject of management: A critical feminist postmodern ethnography of critical care nursing.*

Sriyotin, B. (Professor B. Taylor)
*Perceptions of Female Patients, Caregivers, and Nurses of Pain and Pain Management in Adult Patients with Rheumatoid Arthritis, Ratchaburi Province, Thailand.*

**MSc**

Pascoe, S. (Professor B. Taylor)
*Trauma Patients’ Lived Experience of the Resuscitation Process*

Moss, C. A. (Professor B. Taylor)
*Moral-In-Practice: a Hermeneutic Exploration of Nurses’ Choices-In-Action During Acts of Care*

Savage, L (Dr J. Stevens)
*Health Care in Cuba*

Publications

**Books**

Stevens, J. *Is it dementia or just old age?* Ibis Publications, Melbourne.

**Book Chapters**


**Journals**


Rose, J. & Glass, N., Women community mental health nurses speak out: The critical relationship between emotional wellbeing and professional practice. *Collegian* (Accepted August in press)

**Conferences**

Stevens, J., Outcomes in collaboration in theory and practice: A discussion of two research projects undertaken between Southern Cross University and regional aged care facilities, *Australian Association of Gerontology National Conference*, Nov 10-12, Gold Coast.


Research Highlights

Paul Orrock continued working on:

• Analysis of the 2004 Osteopathic Census data and reporting to funding agency.
• Workplace survey of the osteopathic profession in Australia and their patients.
• Efficacy of acupuncture in frozen shoulder - supervised and conducted a clinical trial in the SCU acupuncture clinic with student Jun Yu Zhou.
• A review of the evidence base of natural and complementary medicines in oncology at Lismore Base Hospital Oncology Unit.

Tini Gruner attended the Australian Integrative Medicine Association Conference (12-15 August, Sunshine Coast) and presented a paper Vitamin B\textsubscript{12} Deficiency and its role in chronic disease.

Graham Wallace, Jacinta Arellano, John Stevens and Tini Gruner conducted an exploratory study in the Philippines on the aetiology of non-syndromic cleft lip and palate.

Sarah Harvey, Scott Hahn, Phil Tynan, Michael Fenech and Tini Gruner examined the effects of folinic acid and methionine supplementation on hypomethylation in children with Down syndrome.

Rachel Arthur-Andrews, Scott Hahn, Jacinta Arellano and Tini Gruner conducted zinc taste tests in Australian naturopathic practice to learn of its prevalence, applications and perceived validity.

Hans Wohlmuth conducted an ethno botanical survey of Western herbal medicine in Australia.

Tanya Pearson, Kerry Penman, Reg Lehmann and Hans Wohlmuth conducted Pharmacognostic studies of passiflora incarnat.

Dawn Whitten, Stephen Myers and Hans Wohlmuth screened herbs for drug-interaction potential and assessed a non-invasive model.

Hans Wohlmuth, Denise Hunter, Lesley Stevenson and David Leach examined the biological activity of plants belonging to the zingiberaceae (ginger) family.

Ian Howden, Stephen Myers and Tom Jagtenberg conducted a study of Homeopathy in Australia in an attempt to discover the beliefs, behaviours and attitudes of the Homeopathic profession.

Sue Evans, Tom Jagtenberg and Baden Offord collaborated on ‘Continuity and Change: the case of contemporary Australian herbal medicine’.

Annette Morgan and John Stevens collaborated on their paper ‘Does Bacopa monnieri improve memory in older Australians?’
Research Highlights

ACCMER received six industry sponsored research grants, generally in the field of the efficacy and safety of natural products and had 12 higher degree research students engaged in research programs in 2005.

ACCMER and the Centre for Phytochemistry and Pharmacology (CPP) are joint venture partners in the Natural Products Pharmacology Unit (NPPU), giving industry a leading-edge research service providing seamless integration between plant chemistry, pharmacology and clinical trials.

ACCMER academic research partners include the:
• Centre for Social Change Research, Queensland University of Technology
• Canadian College of Naturopathic Medicine
• Centre for Complementary Medicine, University of Western Sydney
• RMIT, Victoria

In 2005, ACCMER conducted various clinical trials on complementary medicines, recruiting subjects from the regional area to explore:
• Hypercholesterolemia
• Inflammation
• Immune function
• Dementia

The Centre carried out industry sponsored clinical trials in the following areas:
• Evaluation of the efficacy and safety of a natural product on cold sores (herpes simplex labialis).
• Random placebo controlled trials on the safety and efficacy of a natural product for bilateral chronic plaque psoriasis in adults.
• A study on the safety and efficacy of a natural product in adults with primary hypercholesterolemia.

Publications

Book Chapter


Journals


Brownie S and Rolfe M., Supplement utilisation patterns of older Australians: Results from a randomly selected national sample. 62:89-94.


Kelly, R. J., Gruner, T. M. and Sykes, A. R., Development of a method for the separation of corrinoids in ovine tissues by HPLC. Biomedical Chromatography, 19 (4) 329-333.


Myers, S.P. Getting all steamed up. The Journal of Complementary Medicine, 67.

Myers, S.P. The walls are crumbling. The Journal of Complementary Medicine, 85.


Grant, A. Spirituality and health. The Journal of Complementary Medicine, 93-95.

Hunter, A. Glucosamine. Australian Pharmacist, 24, (3):211

Hunter, A. Isoflavones/phytoestrogens and all that. Australian Pharmacist, 24, (4):312-313

Hunter, A. Zinc. Australian Pharmacist, 24, (5):406


Hunter, A. Valerian – How does it compare to other sleeping preparations? Australian Pharmacist, 24, (7):531

Hunter, A. Do cranberries really prevent urinary tract infections? Australian Pharmacist, 24, (8):638

Hunter, A. Dong quai - what is it? Australian Pharmacist, 24, (9):690

Hunter, A. What in the world is Black Cohosh? Why would a menopausal woman take this? Australian Pharmacist, 24, (10):770

Hunter, A. Why learn to love your lycopene? Australian Pharmacist, 24, (11):849

Hunter, A. Linseeds, flaxseeds: What is the difference? Australian Pharmacist, 24, (12), 927


Conferences


Research Highlights

Professor Colleen Cartwright appointed Foundation Director in February and is the only academic employed in the Centre. The role of Director includes teaching, research and community engagement with a focus on regional issues affecting older people.

Two major research projects were completed:

- The NSW Department of Housing and the Enterprise and Training Company of Coffs Harbour (ETC) funded study Affordable Housing for Older People and People with Disabilities in the Mid-North Coast Region of New South Wales investigating options for rental accommodation for older and disabled people. Participants in the study included older people, people with disabilities; councillors and council staff from Bellingen, Coffs Harbour, Hastings, Kempsey and Nambucca shires; staff of ageing-related government and non-government organisations (including those serving older Aboriginal people); and local developers. The study identified physical and financial models of affordable housing and its potential for development in this region, and produced evidence of its need. The study report will inform future policy and scheduled for released on 4 April 2006, during Seniors Week.

- An Advance Care Planning Pilot Study conducted with nursing staff from Coffs Harbour and Bellingen Hospitals and three general practitioners from the Mid-North-Coast Division of General Practice. The study surveyed 65 patients, aged 60 plus about their knowledge of, and attitudes towards, Advance Care Planning (allowing the aged to record their wishes for future personal and health care in the event of infirmity or illness). Results of the pilot study contribute to a funding grant submission to the National Health and Medical Research Council for a much larger study involving health and allied health professionals and community members in the North Coast Region.

Throughout the year, the Director worked with staff across the three Southern Cross University campuses, North Coast Institute of TAFENSW, Mid-North Coast Division of General Practice and members of the Future of Ageing community organisation to develop and submit several additional research funding applications. Topics included; Skills Needed by Older Workers; Care Needs of Older Aboriginal People; and Management Skills for Staff of Aged Care Organisations. A grant application submitted relating to Companion Animals and Older People in conjunction with staff from the Department of Psychology at the University of Queensland.

Professor Cartwright was involved in writing papers with the international consortium conducting the seven country studies into Medical Decisions at the End of Life.
## Research Funding

<table>
<thead>
<tr>
<th>Public Sector Funding</th>
<th>2005</th>
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<tbody>
<tr>
<td>NHMRC via University of Queensland</td>
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<td>Cartwright, C</td>
<td>International study research account.</td>
<td>13,650</td>
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## Industry and Other Funding for Research

<table>
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<tr>
<th>Bananacoast Credit Union</th>
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<tbody>
<tr>
<td>Cartwright, C</td>
<td>Inaugural Professor of Aged Services and Director of ASLaRC.</td>
</tr>
<tr>
<td>Curran, J</td>
<td>Death and dieing in the non-cancer patient.</td>
</tr>
</tbody>
</table>

| Enterprise and Training Co. of Coffs Harbour Ltd (ETC) and NSW Land and Housing Corporation through the NSW Dept of Housing |  |
| Cartwright, C | Affordable housing for older people and people with disabilities: investigating new models for northern NSW. | 15,000 |
Research Highlights

In 2005, Gnibi had twenty one postgraduate research students (fourteen Indigenous and seven non-Indigenous) supervised through the Indigenous developing Designated Area of Research Strength.

PhD student Samia Goudie suspended her scholarship at SCU to take up a Fullbright scholarship for the next twelve months.

Judy Knox has received a part scholarship from the Department of Community Services to undertake a study titled Will community-based educating processes strengthen and enrich (Indigenous) Community Governance capacities.
Overview of Research

The Centre for Plant Conservation Genetics conducts research on the conservation and sustainable utilisation of plant genetic resources. The Centre employs the most advanced technologies in molecular biology and genetics to address the disciplines of plant genomics, gene isolation, biodiversity studies, bioprospecting, plant breeding, cell and tissue culturing and genetic transformation.

The Centre has developed a growing portfolio of strategic alliances with industry bodies and companies to conduct contract and collaborative research and development in plant biotechnology. The Centre celebrates its 10 year anniversary in 2006 and some key general scientific achievements are listed below, along with 2005 patent positions.

Research Highlights

- *Practical applications of plant molecular biology* – CPCG has made plant molecular biology available to a wide range of industries by developing applications with practical applications in agriculture, forestry, food production and environmental protection.
- *Genetics of Australian crop wild relatives* – CPCG has made significant contributions to understanding of the genetics of Australian wild relatives of crop plants including, sorghum, grape and rice.
- *Microsatellite analysis in plants* – CPCG has been responsible for expanding the applications of microsatellite genetic markers to plant genetics. CPCG research includes the first report of these markers from the coding regions of plant genes.
- *SNP analysis in plants* – CPCG has made major contributions to the analysis of the smallest unit of genetic variation, the single nucleotide polymorphism (SNP), in plants.
- *Novel DNA diagnostics for plants* – CPCG has delivered a wide range of useful plant DNA analysis tools.
- *Gene expression in seeds* – CPCG has made a major international contribution to analysis of the expression of genes in the seeds of major crop species.
- *Genes responsible for cereal grain quality* – CPCG research has resulted in the discovery of key genes determining the quality of grains and grain based foods.
- *Promoters of plant genes* – CPCG research has provided important new perspectives on the specificity of regulatory sequences controlling the expression of genes in plants (especially in seeds).
- *Tree genetics* – CPCG has made important contributions to tree genetics in both gymnosperms (pine trees) and flowering plants (especially the Myrtaceae including the Eucalypts).
- *Grape genomics* – CPCG pioneered the application of genomics to grapes.

Invited Presentations/Participation

- *Professor Robert Henry* – Invited speaker to 1st International Conference on Genomics-based Plant Germplasm Research, Beijing, China. 25-27 April 2005. Title of presentation: *DNA Banks and their Role in facilitating the Application of Genomics to Plant Germplasm.*
- *Professor Robert Henry* – Invited speaker to Tree Improvement for Managers workshop, Grafton, Qld, 2 August 2005. Title of presentation: *Biotechnology as a Tool for Tree Improvement.*
Visiting Scholars

- **Dr Pjtor Strelchenko** – Senior Researcher, Dept. of Biochemistry and Molecular Biology, Vavilov Institute of Plant Industry (VIR). Area of expertise involves research studies on genetic diversity of crops applying of DNA and protein markers. (photo 2)

- **Dr Bihua Chen** – Associate Professor, Fujian Academy of Forestry Sciences, China who visited CPCG for 6 months to work on the project “Molecular variation in CCR, a gene involved in lignin biosynthesis”.

- **Berhane Lakew** – is an SCU PhD student based in ICARDA in Syria who visits SCU annually. His thesis topic is the “Genetic potential of wild barley to improve adaptation to low rainfall environments”.

Awards, Distinctions, Prizes

- Frances Shapter won a ‘Grains Week Leadership Scholarship’ to attend 8th International Workshop on Seeds, 8-13 May 2005 in Brisbane. As part of her attendance to the workshop Frances presented a paper titled *Scanning Electron Microscope Study of Endosperm Morphology in Native Sorghums*.

- Toni Pacey-Miller received the ‘Best Poster Award – Technical Content’ for her poster titled *SAGE and the Mysteries of Malting* at the 12th Australian Barley Technical Symposium, Hobart, 10-13 September 2005.

Theses Approved

**Honours**

- **William Tell** (Bill Smith)
  
  *An overture in the classroom*

**Research Masters**

- **Hue Tran** (Slade Lee)
  
  *Arabica Coffee Diversity in New South Wales and Central Highland of Vietnam*
Centre for Plant Conservation and Genetics

<table>
<thead>
<tr>
<th>Research Funding</th>
<th>2005</th>
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<tbody>
<tr>
<td><strong>Commonwealth Dept of Transport and Regional Services (DOTARS)</strong></td>
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<tr>
<td>Henry, R  Sequenome mass array facility.</td>
<td>200,000</td>
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<td><strong>ACRG C’Wealth/Other</strong></td>
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<td>Henry, R  Grains Research and Development Corporation (GRDC)</td>
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<td>Australian winter cereals molecular marker program.</td>
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<td>Henry, R  Rural Industries Research and Development Corporation</td>
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<td>New markets for Australian rice improvements.</td>
<td>99,016</td>
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<td>Henry, R  ARC Linkage</td>
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<td>Wood quality improvement for spotted gum.</td>
<td>244,722</td>
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<td><strong>Industry and Other Research Funding</strong></td>
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<td>Lee, S  Ecofibre Industries Ltd</td>
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<td>Ecofibre germplasm recovery.</td>
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<td><strong>Cooperative Research Centre (CRC) Funding</strong></td>
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<td><strong>CRC (Sustainable Production Forestry)</strong></td>
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<td>Henry, R</td>
<td>52,398</td>
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<td><strong>CRC for Molecular Plant Breeding</strong></td>
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<td>Henry, R  Genetic potential of wild barley to improve adaptation to low rainfall environments.</td>
<td>34,280</td>
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<td>Henry, R  Development and application of a toolbox of promoters for transgenic breeding in wheat.</td>
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<td><strong>CRC for Innovative Grain Food Products</strong></td>
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<td>Henry, R  Genome project management and genome support.</td>
<td>356,343</td>
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<td>Henry, R  Malting barley.</td>
<td>317,323</td>
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<td>Henry, R  Better quality barley.</td>
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<td>Henry, R  Novel germplasm for food and malt.</td>
<td>89,889</td>
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<td>Henry, R  Improved flour yield.</td>
<td>270,584</td>
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<tr>
<td>Henry, R  Improving the value of bran.</td>
<td>132,632</td>
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<tr>
<td>Henry, R  Genetic manipulation of pulses for improved flavour and colour.</td>
<td>170,853</td>
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<td>Henry, R  Fragrant grain products.</td>
<td>46,268</td>
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<td>Henry, R  Cereal grain quality genomics platform.</td>
<td>199,954</td>
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<td>Henry, R  Collating genetic resources for grain foods research.</td>
<td>58,781</td>
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</table>
Centre for Plant Conservation and Genetics

<table>
<thead>
<tr>
<th>Authors</th>
<th>Title</th>
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<tr>
<td>Henry, R</td>
<td>Sorghum for grain foods.</td>
<td>203,277</td>
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<td>Henry, R</td>
<td>Manipulation of protein and starch quality in sorghum.</td>
<td>103,145</td>
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<td>Henry, R</td>
<td>Australian native grasses as new grain crops.</td>
<td>27,926</td>
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<td>Henry, R</td>
<td>Australian native grasses for crop improvement.</td>
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<td>Henry, R</td>
<td>Novel oil seed products.</td>
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<td>Henry, R</td>
<td>Developing new technologies for efficient sugarcane breeding.</td>
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CRC for Sugar Industry Innovation through Biotechnology

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<tbody>
<tr>
<td>Henry, R</td>
<td></td>
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</table>

Publications

**Book Chapters**


**Journals**


Scott L, Shepherd M, Dieters MJ, Nikles DG, Henry R., Low efficiency of pseudotestcross mapping design was consistent with limited genetic diversity and low heterozygosity in hoop pine (Araucaria cunninghamii, Araucariaceae). *Trees Genetics and Genomes,* 1: 124-134.

Conferences


Henry R.J., Biotechnology as a Tool for Tree Improvement. Tree Improvement for Managers. Grafton, Qld, 2 August 2005.


2005 Patents

2. D. Waters, R. Henry - Gelatinization Temperature Manipulation #2005900645

3. S. McIntosh and R. J. Henry - Conventional Breeding of Folate #2005903091

4. T. Pacey-Miller and R. J. Henry - Malting Process #2005903092

Overview of research

The Teaching and Learning Centre staff focus on research in the domain of higher education and this has meant that TLC staff are able to provide support for research and publications, and to host research seminars by academic staff as postgraduate students through the Graduate Certificate in Higher Education (Learning and Teaching).

Research highlights

Associate Professor Sharon Parry authored a book chapter in the Springer Higher Education Dynamics series with Adjunct Professor Tony Becher on the nature of knowledge and knowledge making in the twenty first century. She was invited to participate in a seminar with higher education policy researchers from around the world at the British Library on this topic.

Jenny Bird was awarded a grant from the Australasian Council of Distance and E-Learning to investigate issues related to the development of professional portfolios for flexible learning designers and developers.

Lee Dunn undertook special studies leave in early 2005, travelling to the UK to explore several issues of scholarly interest including academic integrity and academic staff development at several UK Universities. She was also invited to visit the Chalmers University in Gottenburg, Sweden to spend time in consultations with that University’s academic development unit. Lee is also continuing her research into teaching and learning in transnational higher education in collaboration with Associate Professor Michelle Wallace.

Chris Morgan has continued his doctoral explorations of the question of assessing creativity, which is the subject of a grant application to the Carrick Institute in 2006 and will also be the subject of study leave in the second half of 2007. He continues to publish in the fields of student assessment and flexible learning and has co-authored four international book chapters which have been accepted for publication in 2006.

Meg O’Reilly completed the funded research project entitled Case Studies in Online Assessment with colleagues from University of Wollongong and Hong Kong Institute of Education. She also completed the IRG funded research titled Hallmarks of Excellence in Online Assessment (O’Reilly & Hayden, in press). In the latter part of 2005, Meg undertook special studies leave, travelling to Canada to present a paper at the international EdMedia conference, and to USA, France and Hong Kong to consult with colleagues on upcoming research collaborations. She also continues her involvement on the editorial board of The Journal of University Teaching and Learning Practice and for EdMedia and asilite conferences, held annually.

Visitors

Scholars who visited the Centre in 2005 included Dr Sue Bennett from the University of Wollongong, Faculty of Education, who was involved in a collaborative research project with Meg O’Reilly. The Centre also hosted a visit from Ms Lyn Smith from Auckland University during her sponsored Learning Leaders program and Dr Duncan Nulty, Griffith University. A special session on academic integrity and the use of Turn-It-In plagiarism detection software was also hosted during the year with presenters Charmian Eckersley (University of Newcastle) and Steve O’Connor (Caval Collaborative Solutions). Dr Paul Barron (University of Queensland) also presented an invited seminar on teaching international students.
Research Funding 2005

Industry and Other Research Funding

NextEd/ascilite Research Grant (concluding year)
Reilly, M Innovations in online assessments - case studies. 5,577
Australasian Council for Distance and E-Learning (ACODE)
Bird, J Portfolios for flexible learning designers/developers’ promotion and professional development, 19,475

Internal Research Grant
Hayden, M & Reilly, M Hallmarks of Excellence in Online Assessment. 3,500

Publications

Book Chapters


Refereed Conference Papers


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