

Research & Innovation News

University of Wollongong



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Issue 5 – March and April 2005

Research Student Centre What's on & What's New

2004 Vice Chancellor's Award for Excellence in Research Supervision Winners

The recipients of this year's Vice-Chancellor's Award for Excellence in Research Supervision highlight their dedication and commitment to HDR students.

Congratulations are offered to the following members of staff:

Associate Professor Diana Wood Conroy - Faculty of Creative Arts

Dr Anne Collett - Faculty of Arts

Professor Victor Gosbell and Dr Sarath Perera - Supervisory Team, Faculty of Informatics

These awards will be formally recognised at the Vice-Chancellor's Award Ceremony being held on Friday, 15 April 2005.

Higher Degree Research (HDR) Student Day Conference 2005

The Pro Vice-Chancellor (Research) and the Research Student Centre invite our honours and post graduate coursework students, industry partners, academic and general staff to attend our Higher Degree Research (HDR) Student Conference to be held from 12.00pm on Thursday, 29 September 2005.

Come and get a glimpse of the ground breaking research being undertaken by our HDR students.

Objective:	To give HDR students the opportunity to showcase their research to their peers, academic staff and to industry.
Date:	From 12.00pm Thursday, 29 September 2005 (Registration will commence at 11.15am)
Location:	McKinnon Building, Building 67
Keynote Speaker:	To be confirmed – will be a research alumni member of UOW
Themes:	Promoting and Maintaining Good Health Frontier Technologies for Building and Transforming Australian Industries Scientific Discovery Cultivating our Creativity Understanding Our Society
Registration	Registration is free and will open 1 June 2005 and close on 9 September 2005.
Cocktail Function	A Cocktail Function will be held from 5.00pm, 29 September 2005. Registration for the Cocktail Function is also free.
Call for Abstracts:	Abstracts will be chosen by a committee made up of UOW academic staff Abstracts due by 5pm, 27 May 2005. Abstract requirements will be available on the Research Student Centre website soon.
Presentations:	15 minutes each plus 5 minutes question and answer
Poster Displays:	By invitation only To be nominated by Deans and/or FRCs and/or Research Strengths Directors Set up in foyer of building 67 Poster nominations and abstracts due by 5pm, 4 July 2005. Poster requirements will be available on the Research Student Centre web site soon.
Prizes:	One prize will be awarded for the best poster display One prize each will be awarded for the best presentation of each theme

Keep an eye on the Research Student Centre, News and Events web page, <http://www.uow.edu.au/research/rsc/news/> for more information on the conference.

Scholarships

Scholarship holders can now check their scholarship end dates online at <http://www.uow.edu.au/research/rsc/student/scholarships/current-holders.html#7>

Research Services Office

General Staff Award

Jodie Murrell, Grants Officer, has been awarded the Vice-Chancellor's Award for Outstanding Services for General Staff.

The awards aroused considerable interest this year and there was a strong field of nominations. Jodie's nomination was made in recognition of the integral role she plays in grants management, and in particular for her significant effort and contribution in relation to the University's outstanding success in the highly competitive NHMRC grants scheme in 2004.

The Award will be formally recognised at an Award Function to be held on Friday, 15 April 2005.

Upcoming Grant Opportunities

Relevant Date	Activity
Friday 15th April 2005	2006 NHMRC Career Development Award due to NHMRC
Monday 2nd May 2005	2005 RIBG –Research Infrastructure Block Grants Pool 2 due Research Service Office
Friday 6th May 2005	ARC-Linkage Projects 2005 Round 1 due to ARC

ARC Linkage-Projects

ARC Linkage-Projects grants support collaborative Research and Development projects between higher education researchers and collaborating organisations which are undertaken to acquire new knowledge and involve risk or innovation. Proposals must contain a cash and in-kind contribution from an industry partner.

Eligible collaborating organisations include private sector industry organisations; private non-profit organizations and government agencies.

Applications are currently being invited for Round 1 funding to commence in January 2006. For further information go to:

<http://www.uow.edu.au/research/rso/grants/opportunities/external/arc-linkage.html>

External Grant Schemes

NHMRC Career Development Awards

NHMRC Career Development Awards aim to provide self-directed health and medical researchers a capacity for original independent research and develop their leadership skills in research. The scheme has a particular emphasis on clinical, public health and health service research in order to increase knowledge and support the development of evidence based health policies and to encourage the growth of knowledge-based industries in Australia. If you have any questions regarding this scheme, please contact Jodie Murrell on ext: 4522 or jmurrell@uow.edu.au.

Internal Grant Schemes

2005 Research Infrastructure Block Grants (Pool2)

The objectives of this scheme are to meet project-related infrastructure costs associated with Australian Competitive Grants; remedy deficiencies in current research infrastructure; enhance support for areas of research strength; and ensure that areas of recognised research potential, in which institutions have taken steps to initiate high quality research activity, have access to the support necessary for development. For further information regarding this scheme, please contact Julie Matarczyk on ext: 5874 or juliema@uow.edu.au.

2005 URC New Partnership Grants

The primary objective of this scheme is to support, on a competitive basis, high quality industry related research projects and pilot research projects of modest cost conducted by researchers of proven excellence in collaboration with partners who provide matching support. The research project should relate to and enhance key areas of research strength in the University. It is expected that researchers with projects supported under this scheme will submit an application in the year following for external funding through, for example, the ARC Linkage Projects Scheme. Projects must demonstrate a collaborative research program.

This scheme has an open deadline and applications can be submitted at any time to the Research Services Office. Please note that there are new guidelines and application forms for this scheme which should be reviewed prior to the preparation of a new application. Forms are available at:

<http://www.uow.edu.au/research/rso/grants/opportunities/internal/urc-new-partnerships.html>. Please contact Julie Matarczyk on ext: 5874 or juliema@uow.edu.au if you have any questions regarding this scheme.

Research Ethics – Upcoming Agenda Deadlines and Meeting Dates

Human Ethics Committee Meeting

Deadline 22nd April for meeting on the 10th May

Animal Ethics Committee Meeting

Deadline 19th May for meeting on the 9th June

Biosafety Committee Meeting

Deadline 22nd April for meeting on the 5th May

Uni in the Brewery – A laid back presentation in a relaxing environment

Welcome to Uni in the Brewery for 2005 – an opportunity for staff, students and the general public to hear what UOW researchers are up to. To avoid the disappointment of missing out on Uni in the Brewery sessions for 2005 - please note the following dates in your diaries:

8th June (5:30-6:30pm)

"River Health and Management: A local case study - Kangaroo River" - Carla Mooney.

10th August (5:30-6:30pm)

"Emotional Intelligence" - Joe Ciarrochi

And "The Fear of Driving" - Frank Deane, Faculty of Health & Behavioural Sciences, with a personal perspective from Troy Coyle on her fear of driving.

12th October (5:30-6:30pm) - Date To Be Confirmed

"Bionics and Robotics" - Gordon Wallace and Simon Moulton, Intelligent Polymer Research Institute. In celebration of the Bionic Ear, this session will also incorporate an audio presentation of guitar and song!

MICDs

Champion Lunches Presentation Series...

Speaker: Professor Matt Sanders - Wednesday 11th May 12.30 – 1.30

Book via CDU

To assist in raising the profile of innovation and commercialisation at the University of Wollongong, the CDU in collaboration with the Research & Innovation Division is holding a series of lunchtime presentations where invited high profile individuals - who have been successful in 'commercialising' innovation in a University context share their experiences.

We hope the exposure to the practicalities of commercialising innovation in a university environment, along with the opportunity to discuss the experience will be beneficial to researchers at the University of Wollongong.

Our first speaker, Matthew Sanders is a Professor of Clinical and Director of the Parenting and Family Support Centre at The University of Queensland. He is founder of the Triple P-Positive Parenting Program. This internationally recognised program has twice won the National Violence Prevention Award from the Commonwealth Heads of Government in Australia. He conducts research in the area of parenting, family psychology and the treatment and prevention of childhood

psychopathology. More information at - www.triplep.net

Trailblazer 2005

Trailblazer is an innovation competition open to researchers and students at the University of Wollongong. The competition is designed to foster innovation, progress ideas, inventions or research outcomes as well as reward researchers at UoW.

This will be the first time that the competition will be held at UoW and we hope to have significant numbers of researchers and students entering. The competition is the initiative of UoW's Research & Innovation Division in collaboration with UniQuest – the main commercialisation company of the University of Queensland.

Business Plan Competition

Trailblazer Timeline	
Promotional period commences:	Mid April 2005
Entries due:	Thursday 12 May 2005
Finalists announced:	Tuesday 24 May 2005
Judging and Awards evening:	Thursday 9 June 2005

The University of Wollongong was successful in being selected to instigate a Business Planning Competition (BPC) as part of an Australian Government Initiative - the National Innovation Awareness Strategy. To complement its already strong research focus the University is endeavouring to enhance its innovation and commercialisation activities via the development of an entrepreneurial culture amongst staff and students. As part of this initiative it will be running a business plan competition to:

- raise the profile of innovation & commercialisation activities on the campus
- increase student interest in BPCs and highlighting potential benefits to the innovation process of

good business planning

- develop an entrepreneurial culture amongst students and linking with professionals to develop business planning skills
- provide students with skills and a mechanism to take their innovation and project developments to potential markets
- enhance links and awareness between UoW and the local business community
- increase innovative outcomes from UoW teaching & research activities
- develop relevant networks for those students who have a flair for innovation.

UniQuest Process

Business Plan Competition Timeline	
Promotional period commences:	Monday 27 June 2005
First Stage EoI due:	Friday 12 August 2005
Successful EoI announced:	Thursday, 18 August 2005
BP submissions due	Thursday 29 September 2005
BP Finalists announced	Tuesday 11 October 2005
Judging and Awards evening:	Late October 2005 (Date TBC)

Several IP disclosures are currently going through the IP process. Already, the more stringent process has identified prior art and inventorship issues in an existing patent that normally would not have been identified. It should be noted that in practice for all new patents filed, that it will undertake a formal inventorship determination to ensure that only the proper and legal inventors are being named as inventors on patents. Representatives from

UniQuest made presentations to Faculty groupings on 24 & 25 February and these were very well received

PhD Research Commercialisation Workshop

UoW in collaboration with The University of Queensland's main technology transfer company UniQuest, is running a two day research commercialisation workshop on 14 - 15 April 2005 in Queensland. (Students from The University of Queensland also will be attending the workshop). UoW students will be travelling up pm on Wed 13 April 2005.

The workshop aims to inform students about:

Taking their research to the market;

Attracting funding from industry and investors;

Career options; and

Researchers who've successfully commercialised their research.

Guest speakers will be drawn from industry, start-up companies and venture capitalists.

Intellectual Property Workshops

Two workshops were held on 16 March. The facilitators were Bradley Thomas and Phil Mendes partners in the firm Innovation Law and Mark Roberts from Davis Collison & Cave. They covered:

- 1) the basics of intellectual property (IP) management including different forms of IP and why protect, confidentiality agreements, IP due diligence and step involved in obtaining a patent.
- 2) patent searching, patenting strategies, reading patent specifications, licensing and start ups.

WUPAnews

WUPAnews is a new electronic newsletter produced by the Wollongong University Postgraduate Association to keep postgrads informed about upcoming events, news and issues. To subscribe to WUPAnews, visit the WUPA web site, <http://www.uow.edu.au/wupa>.

To include your event or activity in WUPAnews, please email WUPAnews@uow.edu.au with 'WUPAnews' as the subject line. For more information, call WUPA on 02 4221 5289

Library News

ScienceDirect – linking you to the Hottest Articles

ScienceDirect's new Top 25 Hottest Articles feature provides you with direct access to popular resources via personalised email alert. Keep up to date with the top 25 articles across all ScienceDirect titles, from your favourite journal title or from your subject area. Quarterly alerts provide direct access to fulltext articles in journals held by the Library. Other articles can be requested by Document Delivery.

To view the Top 25 Hottest Articles and to set up your email alert, visit:

<http://top25.sciencedirect.com.ezproxy.uow.edu.au:2048/>

Search ScienceDirect for Elsevier titles covering all fields of study including the arts and humanities. Don't let the title discourage you from using this comprehensive resource if your study area is outside of the sciences.

By using the above link you may also search immediately for the top 25 articles in a subject area or the top 25 articles within a specific journal. Articles are compiled according to downloads amongst ScienceDirect users worldwide. View what your colleagues are reading and what articles are receiving the most attention – positive or negative! This free service is updated quarterly.

If you require assistance with ScienceDirect or any other Library databases, please contact your Faculty Librarian:

www.library.uow.edu.au/services/faclibs.html

Research at the Dubai Campus

From Strength to Strength

Research at the Dubai Campus is alive and well! A Research Committee was established in February 2004 to foster research development and opportunities for staff at the Dubai Campus. The Committee has been very successful in promoting a range of research initiatives in less than 12 months. The full Committee meets every six weeks to discuss research related matters. In addition, four sub-committees handle issues related to research grants, publications and seminars, consulting and research mentoring.

Despite having only forty full time academic staff members, the Dubai Campus has an impressive publications record. Between them staff members have published at least 40 refereed journal articles, and over 40 refereed international conference papers in less than three years. In addition, the Working paper series attracts regular contributions from staff and to date, more than 35 working papers have been distributed to universities in the UAE and in the Gulf region. In addition, staff members have also been involved in consulting projects, with the latest being conducted for a US based company dealing in artificial intelligence software.

A research seminar is held every Wednesday afternoon with presentations by staff and invited speakers. Seminar participants have been given first-hand experiences about the logistics of relief efforts in Darfur, discussed topics ranging from agent oriented intelligence to cartel behaviour in OPEC markets. And heard distinguished guests such as Dr Anita Baker, the World Bank Group's Office of Business Ethics Manager, speak about international standards on business ethics.

In November 2004, the Dubai Campus also hosted a well-attended conference on "Legal Aspects of the Business Environment in Dubai." which was jointly organised with an international legal firm. Later this year, the Dubai Campus will be playing an active role in the Knowledge Village management Forum. Also, plans are currently being drawn up to host a well-known international IT conference in 2006.

There are a number of research projects under way at the Dubai Campus with potential for collaboration with staff in Wollongong. Amongst these are projects in the areas of global banking markets, accounting education, leadership, human resource management, Islamic economics, teaching and learning in higher education, data hiding techniques, WAP applications, UML, artificial intelligence, etc. If you are interested in research partnerships with staff at the Dubai Campus, please contact the Chair of Research Committee, Associate Professor John Simpson (JohnSimpson@uowdubai.ac.ae) or Dr Lejla Vrazalic (LejlaVrazalic@uowdubai.ac.ae). More information about the Research Committee and its activities can be found on our web site at <http://www.uowdubai.ac.ae/researchunit>.

What's happening in the Faculties?

TITR Newsletter

The April issue of the Telecommunications and Information Technology Research Institute's newsletter can be accessed at <http://www.snrc.uow.edu.au/newsletters/index.shtml>

Faculty of Creative Arts Research Discussion Seminars

Wednesdays, 12.30 – 1.30pm, Building 25/Room 128

Creativity and Cognition: Research as Practice

The following monthly panel discussion seminars are open to all postgraduate students and staff, who are encouraged to voice a point of view related to their area of research or practice.

1. March 16

Thinking and creating Asia and Australia

Guest speaker: Artist-in-Residence, Aaron Seeto

2. April 27

Practising sound: technologies of composition and performance

Guest speaker: Artist-in-Residence, Anne Norman

3. May 25

The role of play: interactivity in practice

Guest speaker: Artist-in-Residence, Andrew Polaine

If you would like to contribute a 10 -15 minute segment or respond to the speaker please contact: Associate Professor Diana Wood Conroy, School of Art and Design Tel: 02 4221 4269 Email: dconroy@uow.edu.au

Awards and Achievements

Professor Hugh Brown, **Steel Institute**, will be presented with *The Adhesion Society's Award for Excellence in Adhesion Science, Sponsored by 3M*. The society is composed of scientists and engineers interested in a wide range of topics in adhesion, from the most fundamental aspects at the atomic/molecular level to important practical aspects such as durability and lifetime prediction of adhesive joints. The mission of the Society is to advance the science and technology of adhesion through focused activities and education and to recognize a variety of accomplishments in the field of adhesion. The Award is the Society's premier award for outstanding achievements in scientific research relating to adhesion and will be presented at The Adhesion Society annual meeting to be held in February 2006.

Professor Frank Deane, from the **Illawarra Institute for Mental Health**, Department of Psychology is a co-investigator on the successful Australian Rotary Health Research Grant entitled, "Detection of relapse risk and improvement of health risk behaviours in people with depression: Randomised controlled trial of correspondence-based assistance to general practitioners". The project will be conducted in 2005 and will be lead by Prof. David Kavanagh from the Department of Psychiatry at the University of Queensland.

UoW research on storing lithium in Li-ion batteries performed by G.X. Wang, S. Bewlay, J.Yao, H.K. Liu and S.X. Dou, researchers in the **Institute for Superconducting and Electronic Materials**, Faculty of Engineering recently received a "rave" review in the Materials Research Society (MRS) Bulletin.

MRS Bulletin is a monthly publication of the Materials Research Society (USA), a not-for-profit scientific association that promotes interdisciplinary goal-oriented research on materials of technological importance. MRS Bulletin ranked second among

159 materials science journals and first among 67 applied physics journals in the Institute for Scientific Information® Journal Citation Reports® (JCR) impact factor ratings, 1999 Science Edition.

Faculty of Commerce, George Mickhail was awarded a Certificate of Best Author Award by the Journal of American Academy of Business, Cambridge in recognition of his support as a distinguished author for the Journal.

Faculty of Creative Arts, Merlinda Bobis' book "Banana Heart Summer" will be published by Murdoch Books in May 2005.

Research News from Centre for Medical Radiation Physics.

Importance and excellence in cancer research at Centre for Medical Radiation Physics (CMRP) was recognized by many national and international institutions recently.

Curie Prize

The Australasian College of Physicists, Scientists and Engineers in Medicine (ACPSEM), NSW Branch has held it's annual competition for the best research in the field of medical physics among research students in Master and PhD Programs. It is a very competitive forum for young researches working in cancer radiation treatment and diagnostic from NSW Universities and hospitals. In both cases students from CMRP were recognized the best and were awarded the Curie Prize. - Brad Oborn, Master MRP student, supervised by A/Prof Martin Butson, working on a project related to reducing of the skin dose during the cancer treatment on medical accelerator using 6MV X-ray and Dean Cutajar, PhD student supervised by Prof Anatoly Rozenfeld for his work on dosimetry in prostate cancer brachytherapy with permanent seed implant I-125.

Micro and nano- dosimetry for proton therapy and space medicine.

Dr Iwan Cornelius recent graduate of CMRP was awarded the **AINSE Gold Medal** for his PhD work on investigation and simulations of silicon microdosimetry. Andrew Wroe, a current PhD student at CMRP is continuing on with this project and doing research on nanodosimetry in collaboration with Loma Linda University Medical Centre (LLUMC) Proton Therapy Facility.

This collaboration between CMRP and LLUMC (USA) was established to improve proton therapy technology using radiobiological planning on DNA level. In his first year of PhD research Andrew was awarded **The First Prize for the best PhD student Poster Presentation** at IEEE Nuclear Science Symposium and Medical Imaging Conference (IEEE NSS MIC) , Rome, October 2004.

Recently this direction of research and collaboration was highly recognized by awarding Andrew with a **Fulbright Scholarship in medical field** to support 6 months visit to LLUMC for joint experimental research at Proton Therapy Facility.

Rotary Health Funds PhD scholarship in prostate cancer research.

A CMRP PhD project proposal on improvement of prostate cancer treatment was recognized as the best among many applicants in the recently announced **Rotary Health Fund Prostate Cancer Scholarship**. Ian Kwan, recent CMRP graduate from Master Medical Radiation Physics Program was awarded this prestigious scholarship.

The next issue of Research & Innovation News will be available on the web on 1 June 2005. If you have a research event happening or have some news on research achievements and awards you would like to include in the next newsletter, please email the details to Jessica Orellana at jessica_orellana@uow.edu.au before Friday, 13 May 2005.