Are you hoping to Graduate this July?

Higher Degree Research students who have received their examination results must fulfill TEC requirements and then submit two bound copies of their final thesis to the Research Student Centre by 10 June if they wish to graduate at the July 2005 graduation ceremonies. Please note that there can be no extension to this deadline.

For any enquiries about this process, please contact Julie King at the RSC x3208

Higher Degree Research (HDR) Student Conference 2005

The Pro Vice-Chancellor (Research) and the Research Student Centre invite our higher degree research (HDR) students, industry partners, academic and general staff to present at and/or attend our Higher Degree Research (HDR) Student Conference to be held from 12.00pm on Thursday, 29 September 2005.

Come and hear about the ground breaking research being undertaken by our HDR students.
<table>
<thead>
<tr>
<th>Objective:</th>
<th>To give HDR students the opportunity to showcase their research to their peers, academic staff and to industry.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date:</td>
<td>From 12.00pm Thursday, 29 September 2005</td>
</tr>
<tr>
<td>Location:</td>
<td>McKinnon Building, Building 67</td>
</tr>
</tbody>
</table>
| Keynote Speaker: | Dr Jack Baker  
Manager, Biodiversity Conservation  
Science Section Science Branch, Policy and Science Division, Department of Environment and Conservation, NSW |
| 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 is NOW open online  
Register today at  
http://130.130.53.3:591/conference/FMPro?-db=Conference.FP5&lay=Detail-&format=conference.html&-view |
| Call for Abstracts: | Abstracts will be chosen by a committee made up of UOW academic staff  
Abstracts due by 5pm, Details are available on the Research Student Centre website at  
http://www.uow.edu.au/research/rsc/HDRconference/abstractrequirements.html  
**Closing Date has now been extended to Friday, 24 June 2005** |
| 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 due by 5pm, 5 August 2005. Poster requirements will be available on the Research Student Centre web site soon. |

For more detailed HDR Student Conference information go to http://www.uow.edu.au/research/rsc/HDRconference/index.html

**Life After Honours - The Next Big Discovery**

**Information Evening and Cocktail Function, Tuesday, 26 July 2005**

Are you currently undertaking an Honours degree? Are you curious about where to go from here? Could a research degree be the next step for you?

The 2005 Life After Honours Information Evening and Cocktail Function to be held on Tuesday, 26 July 2005 will give you the opportunity to:

- find out about the ground breaking research you can be involved in within your faculty
- get faculty specific information
- hear from current higher degree research students about their experiences while undertaking a postgraduate research degree

For more details please contact Jessica Orellana, HDR Events Officer in the Research Student Centre on (02) 4221 5454, Jessica_Orellana@uow.edu.au.

**Scholarships**

**New Closing Date for 2006 HDR Scholarship Applications**

Applications for 2006 Australian Postgraduate Awards, University Postgraduate Awards and International Postgraduate Research Scholarships is 30 September 2005. Applications are now available from the Research Student Centre and UniAdvice or can be downloaded from http://www.uow.edu.au/research/rsc/student/scholarships/prospective-holders.html

**Higher Degree Research (HDR) Student Orientation and Enrolment Day – Spring Session 2005**

Orientation and Enrolment Day for new HDR students will be held on Tuesday, 19 July 2005.
The Orientation sessions will be held in the morning in the UniCentre Function Rooms, Building 11. Enrolment will then be held from 2.30pm at the Research Student Centre, Building 20.

For further information please contact Jessica Orellana, HDR Events Officer in the Research Student Centre on (02) 4221 5454, Jessica_Orellana@uow.edu.au.

Students who have not attended an orientation session previously are welcome to attend.

Research Services Office

Cancer Research Afternoon Tea - Thursday, 2 June 2005
The University’s Office of Community and Partnerships and the Research Services Office are coordinating an Afternoon Tea on Thursday the 2nd June as a public thank you and an information session between Cancer Researchers and those people who have made donations to Cancer Research conducted at the University of Wollongong.

Researchers will be reporting on the progress of Cancer Research made possible by the generous donations and bequests by members of Alumni, UoW's Rotaract, Rotary (Kiama and Minnamurra), Cancer Carers groups and other individuals.

Uni in the Brewery
Passionate about the environment? The next Uni in the Brewery session is Wednesday June 8th 5:30-6:30pm at the Five Islands Brewery.

Carla Mooney (Faculty of Law) will speak about River Health and Management - a local case study of Kangaroo River, while Paul Formosa from the Wollongong City Council will provide discussion on communities making a difference in environmental management with community participation.

All staff, students and the general public are welcome to attend Uni in the Brewery presentations. More information at: http://www.uow.edu.au/research/unibrewery/

University Research Committee
The University Research Committee recently approved a resolution by the University Ethics Committee (UEC) to change the UEC name to the University Ethics Policy Committee (UEPC) in order to avoid confusion with another University Committee (University Education Committee).

Human Research Ethics
The existing HREC has been restructured into two HRECs, one focusing on Health and Medical research and the other on Humanities, Social Science and Behavioural research. Information about the two committees, including meeting dates and agenda deadlines, is available at http://www.uow.edu.au/research/rso/ethics/human/

Ethics Advisors have also been introduced in the Faculties. There are currently advisors in H&B, Informatics, Education and Arts (see http://www.uow.edu.au/research/rso/ethics/human/ethics-advisors.html for details). It is recommended that researchers writing their first ethics application before contact an advisor to discuss their application before submitting it. Alternatively the Ethics Officer can be contacted on 4221 4457 or eves@uow.edu.au

Upcoming Grant Opportunities

<table>
<thead>
<tr>
<th>Relevant Date</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Friday 27 May 2005</td>
<td>ARC Linkage Infrastructure Equipment and Facilities (LIEF) grants due to ARC</td>
</tr>
<tr>
<td>Friday 27 May 2005</td>
<td>2006 NHMRC Training Award Fellowships due to Research Services Office. (Applications due to NHMRC 1 July 2005)</td>
</tr>
<tr>
<td>Friday 3 June 2005</td>
<td>2006 NHMRC Training Award Scholarships due to Research Services Office. (Applications due to NHMRC 5 August 2005)</td>
</tr>
<tr>
<td>Wednesday 8 June 2005</td>
<td>2005 RIBG – Research Infrastructure Block Grants Pool 2 to URSC to determine final allocations</td>
</tr>
<tr>
<td>Late June</td>
<td>Small Grants (Guidelines and Application forms available on-line)</td>
</tr>
</tbody>
</table>
External Grant Schemes

ARC Linkage-Projects

Thirteen applications were submitted to the ARC on 6 May for funding to commence in January 2006. Applications were received from Creative Arts (2), Commerce (2), Education (1), Engineering (1), Informatics (4) and Science (3). Total funding requested was $2.5 million for an average project life of 3 years.

NHMRC Training Awards

The NHMRC Training Award schemes provide funding support to outstanding Australian health and medical researchers at the start of their research career. Training Awards encompass Overseas and Australian-based Postdoctoral Fellowships, including Industry Fellowships, and Postgraduate Scholarships.

For further information go to: http://www.uow.edu.au/research/rso/grants/opportunities/external/nhmrc/nhmrc-training.html

If you have any questions regarding these awards please contact Sharon Clarke on ext: 5815 or clarke@uow.edu.au

Internal Grant Schemes

UIC International Links Grant Scheme

The UIC International Links Grant is available to help develop links with international partner institutions. Co-ordination of this scheme is currently being transferred to the Research Services Office, which has resulted in a delay in announcing the current funding round. An email will be sent to all staff shortly, outlining the submission timetable for the scheme. It is anticipated there will be a call for applications in late June.

Any questions regarding this scheme should be directed to Julie Matarczyk on ext: 5874 or julie_matarczyk@uow.edu.au.

ARC Visit to UOW

A team from the ARC will visit the University on Thursday 9 June. The team will be touring ARC-funded research facilities and Prof. Peter Hoj (the ARC’s CEO) will officially open the Biomolecular Mass Spectrometry Facility. An open forum, aimed at researchers and research administrators, focusing on ARC programs and general research issues will also be held from 1.30 to 2.45 pm, Room 107, McKinnon Building 67 on the day. The ARC presenters at the forum will be Professor Peter Hoj (CEO), Professor Elim Papadakis (Executive Director, ARC Social, Behavioural & Economic Sciences, Federation Fellows and Research Networks) and Dr Stephen Walker (Executive Director, Engineering & Environmental Science, Linkage Projects).

For further information please contact Jodie Murrell on ext: 4522 or jodie_murrell@uow.edu.au.

International Links Grants – 2005 Funding Round

The International Links Grants scheme is designed to fund projects that will help advance the University's of Wollongong's reputation as an outstanding research and teaching university by supporting productive and strategic collaborations with key overseas universities.

The main objectives of the scheme are to support strong, collaborative, research and/or teaching projects, which develop linkages with partners - for the benefit of UoW. Guidance as to the Universities with which UoW is particularly keen to develop alliances is provided by the list of targeted international links partners.

There have been some changes in the membership of the subcommittee of the UIC (ISaAC) that administers the International Links Grants, in particular my recent appointment as the Chair. One of the current tasks of this subcommittee is a review of the list of targeted international links partners, along with devising clearer criteria for
deciding on additions to and deletions from the list, and considering ways of aligning more closely our international research alliances and teaching partners.

As a result of these changes, the call for applications for the UIC International Links Grants scheme this year will be delayed. The 2004 international links partners list will be used again, but the guidelines will be changed slightly.

I expect that we will have the following timetable:

- Late June - release revised guidelines and application forms,
- Late July - applications due,
- Early September - outcomes announced.

We will run a workshop for potential applicants on July 1 (12:30 - 1:30). Guidelines, policy and decisions on grants will continue to be made by ISaAC, but the grants process will be administered by the Office of Research.

We will use alignment with the 2004 list of targeted international links partners as one basis for grant decisions in this upcoming round. However, in recognition of the fact that the list of targeted international links partners is in process of revision, proposals for collaborative work in overseas universities that are outside the 2004 list of targeted international links partners will also be considered for full funding, based on the strength of the case that is made for the strategic importance to UoW of such a link.

Professor Rob Whelan
Dean
Faculty of Science
University of Wollongong
NSW 2522
Ph: (02) 4221 3530
Fax: (02) 4221 4366
email: rob_whelan@uow.edu.au
http://www.uow.edu.au/science

MICDs

Champion Lunches Presentation Series...

Speaker - Mr Mark Gauci, Macquarie University student to CEO of a world-class biotechnology company

12.30 to 1.30 Thursday 2nd June

To attend (if staff)- register with CDU (if student) register with Troy Coyle at tcoyle@uow.edu.au or 4221 4420.

To assist in raising the profile of innovation and commercialisation at the University of Wollongong, the Career Development Unit 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.

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.

Mark Gauci is the CEO of BTF Pty Ltd (BTF). BTF supplies reference standards for microbiological testing to top-tier food companies, pharmaceutical manufacturers, drinking water utilities, research laboratories and regulatory authorities in Europe, USA, Japan and Australia.

The company was founded in 1999 by Dr Graham Vesey (microbiologist and current Chief Technical Officer) and Mark Gauci (laser technologist and current CEO) who, while at Macquarie University, developed a method for producing precise reference samples of Cryptosporidium oocysts and Giardia cysts. The catalyst for BTF’s foundation was Sydney’s drinking water supply contamination event in 1998. At the time there was no accurate way of verifying the accuracy of Cryptosporidium and Giardia testing. BTF was established to refine the manufacturing process for Cryptosporidium and Giardia reference samples, using patented technology, and to commercialise the products.
Today these products have been adopted by water authorities worldwide with endorsements from the world’s leading regulatory and industry bodies. These products are now recognized as the industry standard for Cryptosporidium and Giardia testing. BTF has advanced the novel microbe dispensing technology to produce precise reference standards for a number of live bacteria, including E. coli, Salmonella and precise reference standards for a range of live bacteria relevant to industrial microbiology testing.

Mark Gauci will speak about his experiences (good and bad) along the commercialisation pathway from Macquarie University student to CEO of a world-class biotechnology company. This will include experiences in:

- jumping ship from academia to the business world;
- obtaining R&D funding;
- entrepreneurship;
- obtaining venture capital;
- working within a business incubator; and
- building a business and convincing the market.

Mark is keen to present interactively and will encourage attendees to ask questions.

**UoW 2005 Trailblazer Finalists**

The following applicants have been selected as finalists in the inaugural UoW Trailblazer competition. 78 applications were received and the quality of the applications made it extremely difficult to determine the finalists. 17 innovations were selected to go forward for the final judging to be held on 9 June. Finalists are listed below:

**Students**

- Mr Nuri Elbasha, Faculty of Engineering, “Enhancing the strength and ductility of high strength reinforced concrete beams”
- Mr Mark Havryliv, Faculty of Creative Arts “Audio controlled games”
- Miss Anna Henningham, Faculty of Science, “The metabolic Archilles heel of GAS”
- Mr Peter Kelly, Faculty of Health and Behavioural Sciences, “Homework generator”
- Mr Bin Liu & De Weihua Li, Faculty of Engineering, “Actuator Joystick for Virtual Reality Applications”
- Miss Ana Maneva, Faculty of Informatics “SouthWind’s SeeNav”
- Mr Simon Meers, Faculty of Informatics, “Electro-neural vision systems”
- Mr Fenghui Ren, Faculty of Informatics, “Content-based image search engine”
- Mr Luke Scott, Faculty of Engineering, “Vacuum membrane distillation”
- Mr Le Chung Tran, Faculty of Informatics, “space-time processing to improve the performance of wireless communication systems”

**Staff**

- Prof Shi Xu Dou, Faculty of Engineering, “Magnetic field processing to enhance materials performance”
- Dr Bridget Munro, Faculty of Health and Behavioural Sciences, “Stretching straining landing training”
- Mr Tony Okely, Faculty of Education, “The HIKCUPS family weight management program for obese children and their families”
- Prof Jennifer Seberry, Faculty of Informatics, “The PY Stream Cipher”
- Dr Dominic Phelan, Faculty of Engineering, “Novel Porcelain”
- Dr Willy Susilo, Faculty of Informatics, “Secure USB Disc Access”
- Prof Mark Wilson, Faculty of Science “Artificial Chaperone”

**Young Achievement Australia Biotechnology Entrepreneur Program**

The University has been successful in being the first NSW Uni to be selected to run a Biotechnology Entrepreneur Program for postgraduate students. Young Achievement Australia will provide the
framework to run a YAA Business Skills Program for the 15 students who nominated. It is anticipated that the program will provide our students with a unique opportunity to experience the realities of biotechnology commercialisation in a risk-free environment. We have a multidisciplinary group of students who will form the UOW team and a selection of staff from a variety of commercial areas willing to participate as mentors.

Any students interested in participating in the program should contact Troy Coyle at tcoyle@uow.edu.au or 4221 4420.

**Business Plan Competition**

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.

**Business Plan Competition Proposed Timeline:**

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Promotional period commences:</td>
<td>Monday 27 June 2005</td>
</tr>
<tr>
<td>First Stage EoI due:</td>
<td>Friday 12 August 2005</td>
</tr>
<tr>
<td>Successful EoI announced:</td>
<td>Thursday, 18 August 2005</td>
</tr>
<tr>
<td>BP submissions due</td>
<td>Thursday 29 September 2005</td>
</tr>
<tr>
<td>BP Finalists announced</td>
<td>Tuesday 11 October 2005</td>
</tr>
<tr>
<td>Judging and Awards evening</td>
<td>Late October 2005 (Date TBC)</td>
</tr>
</tbody>
</table>

**Library News**

**Opening access to ScienceDirect**

Postgraduate research students can now apply for transactional access to journal articles in ScienceDirect where only the abstract is available. Transactional access provides the fulltext to these articles.

ScienceDirect provides access to journals across many disciplines, covering much more than the sciences. It includes titles in engineering, business, management and accounting, arts and humanities, and social sciences.

Within ScienceDirect, staff and students have fulltext access to all the journals the Library subscribes to and are able to view abstracts for other content. With transactional access, students are given their own ‘personal login’, providing them with fulltext access to unsubscribed titles. Other features such as personalised alerts and journal lists can also be tailored to your area of research.

To learn more about this service and to apply for access contact Neil Grant, Electronic Services Librarian (neil_grant@uow.edu.au, 4221 3547) or visit the Library website: www.library.uow.edu.au/services/research/sdtrans.html
Learn more about citations – who's citing whom and what's a high impact journal?

Researchers frequently ask “How do I find out who has been citing this paper?” or “Who has been citing my work?” The Library’s new Citations guide can help you to answer these questions. The guide provides information on using the ISI Web of Science database to find citations. Web of Science provides citation information for the articles it indexes and allows a research trail to be followed through ‘Cited References’ or ‘Times Cited’ links.

Check out the new Citations guide. Follow the link from Additional Services > Researchers on the Library homepage: www.library.uow.edu.au

**Statistical Consulting Service**

The SCS is a service available to all academic staff at the University of Wollongong. One of a team of 10 statisticians can provide advice on design and analysis of research studies. The SCS has particular skills in sample design, experimental design, analysis of survey data, regression and multi-level modelling, but can comment on any study involving statistical issues. Clients include researchers in biological science, environmental science, psychology, engineering, IT and humanities. We can also advise on statistical software, and review grant applications for statistical issues.

The SCS presents a range of short courses including Statistical Methods for Research Workers, Multiple Regression, Survey Methods, Multi-level Modelling, SPSS, SAS and other software courses. There is a nominal charge for university staff for these courses.

For more information, or to book an appointment, see our website http://www.math.uow.edu.au/scs/index.shtml or email statcon@uow.edu.au

**What’s on in the Faculties?**

**SymbioticA Biotech Art Workshop**

The BioTech Art Workshop is presented by SymbioticA: the Art and Science Collaborative Research Laboratory in the School of Anatomy and Human Biology and the Faculty of Natural and Agricultural Science, University of Western Australia

A five day intensive workshop dealing with hands on exploration of biological technologies and issues stemming from their use.

For more detailed information go to http://www.uow.edu.au/crearts/sad/SymbiotechWshop05.html or contact Catherine Fargher Phone: + 61 02 93145121.

**Awards and Achievements**

**Faculty of Commerce** PhD student Jon Ducrou was awarded the Best Paper Award for “Combining Spatial and Lattice-Based Information Landscapes” at the 3rd International Conference on Formal Concept Analysis in March in Lens, France.

**UoW has received healthy funding** for the following 3 new projects, pending the formal approval by the Board very soon.

These include:

1. Wheel/Rail Noise Assessment (Richard Dwight, Mechanical) $111,500
2. Formation-Ballast-Track Interaction - 2nd Phase (Indraratna, Geotechnical) $ 406,000
3. Stress-strain and Filtration of Subballast (Indraratna, Geotechnical) $ 86,000

Total of funding is $ 603,500. All projects will commence in July 2005.

The above are in addition to the 4 other ongoing projects run by the project leaders: Alex Remennikov (Structural), Tara Chandra/David Nolan (Materials), Richard Dwight (Mechanical), and Indraratna/Khabbaz (Geotechnical). These ongoing projects will complete in 2006.
Professor Buddhima Indraratna has been invited to deliver one of the Keynote Papers at the first Post-tsunami Reconstruction and Rehabilitation Conference to be held in Bangkok, Thailand in December 2005. He will report on his current soil investigations and ground improvement practices in Sri Lanka, and the modern ways of reconstructing the badly affected rail tracks and other strategic infrastructure on coastal soils weakened and loosened by the ferocity of the waves. This Conference will be supported by the International Working Group on Natural Disaster Prevention and Rehabilitation, Institutions of Engineers in several Southeast Asian countries, and international organisations involved in post-tsunami reconstruction.

Professor John Bern of UOW and Professors Wes Pue (Law) and Arthur Ray (History) of UBC convened a workshop on the theme “Australia/Canada Comparative Research and Scholarship: Exploring the Prospects for University of British Columbia-University of Wollongong Collaboration” at UBC on 27 April. The workshop’s aim was to build on the existing relationships between UBC and UOW and explore other areas for fruitful comparative collaborative research, scholarship and teaching. The extent and the content of the collaboration were viewed as open, developmental and flexible. About twenty five academic staff from three UBC Faculties, four Research units and the First Nations House of Learning attended along with representatives from UBC International and UBC Go Global. UOW was represented by the Dean of Arts Andrew Wells, John Bern, Gerry Turcotte and Paul Sharrad.

The mood of the workshop was highly positive. The group discussed and identified key issues for focussing and developing the UBC/UOW collaboration. Staff and student exchanges (both undergraduate and postgraduate) and areas for joint curriculum development. Most attention was given to looking at the potential areas for collaborative research and research training and the means to advance these.

There was a significant engagement with collaborative research proposals in global education and fluvial geography. However, the bulk of the outcomes focussed on areas of principal interest to Arts and Law. Four main themes emerged for the development of future scholarly collaboration. These are: Governance, Citizenship and Democracy; Asia and the Pacific: Canadian and Australian perspectives; Indigenous issues as subject of study; indigenous education as a process of empowerment and identity; and Literature and Cultural studies: Diasporas; indigenous voices; gender; race.

The workshop put forward a number of proposals to further the development of inter-institutional collaboration. Over the next year these include joint colloquia, conference sessions and specialist workshops in: Bio Ethics; feminist scholarship in Law and Society; ‘Performing the Nation’; comparative Indigenous Land Claims; and by no means least a major event at UOW on Citizenship and Democracy.

The issue of developing an ongoing institutional framework for collaboration engaged the workshop in its final session. The investigation of possibilities and funding sources is currently under discussion.

The next issue of Research & Innovation News will be available on the web on 1 August 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, 17 July 2005.