MODELS FOR UNIVERSITY DEVELOPMENT

The transition has to be real—not a paper transformation

The Vice-Chancellors’ Committee has spelled out a series of models for the transformation of colleges of advanced education into universities. This follows its earlier comments on the Queensland Government’s decision to give university status to three institutions from 1993. The AVCC had expressed concern about the potential impact of this decision on the international standing of Australian universities.

The chairman of the AVCC, Professor Brian Wilson, said that the events of the past few months had shown that the concept of a university was becoming more diffuse in Australia. He said: ‘We are starting to see the development of a system where national coherence of philosophy and consistency of standards related to universities may be lost.

‘Obviously, universities have never been static: the university of today is very different in size, style and content from those of even 30 years ago. The AVCC’s recent attempts to redefine the university have been prompted by the more rapid changes following the Federal Government’s White Paper on Higher Education’.

Professor Wilson said that the current attempts to establish new models were a healthy development, so long as the central goal of the university — the education of postgraduates and undergraduates in a broad range of courses; the creation of new knowledge through research and scholarship; and the preservation of transmission of that knowledge — was not ignored.

‘The development of new universities takes time and care and, most importantly, can be assisted by the involvement of existing universities in the process,’ he said.

The AVCC was confident that the amalgamation of colleges with universities, if carefully handled, would protect the quality of existing universities without damaging the important characteristics of the former colleges.

Equally, there were some complex institutions, such as the big institutes of technology, which could be transformed into universities of technology with appropriate financial support.

The AVCC believed, however, that there was a number of other models which could be useful aids to further development of other colleges:

The University College: this method was used to establish universities such as the University of New England, the University of Newcastle and James Cook University.
Human Movement research into scrum safety

The Australian and New Zealand Rugby Unions have provided $14,000 for a further study into the biomechanics of rugby scrumming techniques to be completed under the direction of Dr Peter Milburn. This comes in the wake of a study which supported the adoption of law changes designed to increase scrum safety. Since the adoption of these changes, there have been no serious scrum injuries in games played under these laws.

The present study will examine shearing forces experienced by front-row players under a variety of different scrumming techniques. A series of piezo-electric force plates built into a scrum machine will detect the three orthogonal components of force experienced at engagements as well as the sustained forces on the hooker and props during the scrum.

It is anticipated that preliminary proposals regarding the safety of the scrum can be documented in time for the International Rugby Board's annual general meeting in April.

...and into training programs for netball players

Dr Karen Chad and Ms Julie Steele were recently awarded $12,500 to undertake a research project entitled 'The relationship between physical requirements and physiological responses to match play and training in elite netball players: the basis of a tailor-made training program.'

The study will involve an evaluation of the physical capacities of elite netball players as well as determination of the energy requirements of positional play during match conditions and training sessions. This will permit recommendations for individualised training programs, specific to netball, to be developed. The grant was awarded under the Applied Sports Research Program, funded by the Australian Sports Commission.

Models for university development

University. The institutions had begun life as university colleges affiliated with universities and after a period of development and assistance had been given independent status.

The network: the creation of a multi-campus network with more autonomy for the individual campuses than under the university college model but with overall responsibility exercised by the experienced governing body.

Sponsorship: this approach was being used in NSW where the University of Western Sydney was being established under the sponsorship of The University of Sydney. The Sydney Vice-Chancellor was also acting Vice-Chancellor of the new institution; five of the 18 members of the Board of Governors were from The University of Sydney; and two-fifths of the Academic Board would come from the University of Sydney until 1996.

Contractual arrangements: the Northern Territory University had been formed by the amalgamation of a university college and an institute of technology.

However the contractual arrangement which had existed between the university college and The University of Queensland would continue, with the Northern Territory University offering University of Queensland degrees in arts, sciences, economics and law. This would ensure the quality of the degrees until the Northern Territory University developed further.

Professor Wilson said these models had the advantage of giving colleges the assistance and oversight of established universities as they moved to diversify their offerings and develop their research base. The above models had been, and could continue to be, applied to colleges where development to university status was considered appropriate.

He said that the issue was not whether some colleges should become universities — many existing universities had started out as colleges — but how best to ensure that the transition was real rather than simply a paper transformation. This process would require time, money and informed advice if the current high standing of the title 'university' was to be maintained internationally.
areas of EEO and Disability. He is a member of the Equal Opportunity Tribunal of NSW. He also lectures and tutors within the Department of Legal Studies at The University of Wollongong. He is a member of several committees/working parties within the University associated with Affirmative Action and Disability.

Safety Management Workshop
Illawarra Technology Centre Conference Rooms.
Friday April 14, 9 am to 5 pm.
Three basic areas of the management of the Safety function will be covered:
1. Occupational hazards – identification and control.
2. Occupational health and safety legislation – corporate and individual responsibilities.
3. Induction of new staff – including job instruction.
4. Safety management – a review and overview.

This course will be conducted by Reg A. Whitton, ASTC, AFAIM, ASIA, MERG Soc. Mr Whitton has had wide experience in Workers Compensation litigation, advising insurance companies and legal representatives of litigants on safety aspects of the specific case, including expert opinion, under court conditions.

Registration forms from Wollongong Uniadvise Limited, The University of Wollongong, PO Box 1144, Wollongong, NSW 2500.
Inquiries: (042) 26 8888 or 27 0076.

May Graduation Ceremonies

Four graduation ceremonies will be held from May 10 to May 12 in the Sports Hall, Recreation and Sports Association building. Details are as follows:

Wednesday May 10 – 2.30 pm

Commerce: All Commerce and Management degrees and diplomas, including AssocDipAdmin, AssocDipCompApp, and Grad Dip Ed Stud (School Admin).

Speaker: Mr Gerry Freed, BLE Capital Limited, Fellow of the University.

Thursday May 11 – 9.45 am

Arts: All Arts and Creative Arts degrees and diplomas.

Speaker: Dr Marion Adams, Dean, Faculty of Arts and Head of Germanic Studies, The University of Melbourne.

Thursday May 11 – 2.30 pm

Education: BEd (external conversion courses only)
Science: Science, Human Movement and Nursing.

Speaker: Professor P. LeP Darvall, Dean, Faculty of Engineering, Monash University.

Friday May 12 – 9.45 am

Education: BEd (excluding external conversion courses), all other Education degrees and diplomas.
Engineering: All Engineering degrees and diplomas.

Speaker: Mr P. Songo, High Commissioner, Papua New Guinea High Commission in Australia.

Invitations to academic staff to attend the ceremonies will be sent out shortly.

Brilliant Wollongong PhD student to give recital at Performing Arts Centre

Currently enrolled in the Doctor of Creative Arts program at The University of Wollongong, brilliant Australian pianist Marilyn Meier will give a recital at the Illawarra Performing Arts Centre on Friday April 21 at 8 pm. She will perform works of Mozart, Chopin, Debussy, Cowell and Stravinsky.

On Australia Day, Marilyn Meier was honored as an Australian Achiever of 1988 – finalist for Young Australian of the Year – for outstanding achievements as a concert pianist.

Described by the eminent Bela Siki as one of the most talented pianists of her generation, Marilyn went to the USA at age 15, progressing through the University of Washington, Seattle, to the University of Cincinnati where she gained her Bachelor of Music (Hons) at 19, and the Artist Diploma. From 1985, she studied with Professor Hans Leygraf at the Mozarteum in Salzburg where, in May 1988, she was awarded the Performance Diploma.

Marilyn has performed throughout Australia, USA, Spain, West Germany, Austria and Switzerland. Her 1989 tour of Europe and the USA from May-July will include performances in Vienna, Salzburg, Zurich, Cincinnati and New York.

Bookings for the April 21 recital may be made at the Centre Box Office: (042) 26 3366; Nowra Music Studios, Nowra and Bevans Real Estate, Oak Flats. Tickets $22; concession $16; group bookings (ten or more) $18.
Furniture on Campus!

Further example of invention and imagination – another first?

In 1976 the Buildings and Grounds Maintenance Section started making furniture in a small workshop in the southwest corner of Building 6. The demand for this service grew and the Maintenance Section staff was encouraged to branch out into a production-type joinery, making furniture, mostly suitable for campus needs. There is now a superbly equipped workshop at Campus East.

The Maintenance Section found it was able to produce personalised furniture, designed for a specific area and use, at an acceptable cost. In some cases, items were manufactured and supplied in a shorter time than would have been needed by an outside company.

The range of furniture being produced includes desks for professors, general staff and students, workstations, conference room tables and cupboard furniture, bookshelves, glass-fronted noticeboards, pinboards, whiteboards, video trolleys, display and advertising stands, indoor garden boxes and settings, ergonomic furniture, computer furniture, pigeonhole units and essay boxes, personal locker units, filing units, drawer units, lollipop lights around the campus, floor-to-ceiling cupboard and shelving units, material covered room dividers.

Specialised items of furniture can be designed and manufactured using the eight trades including 25 permanent staff and 11 casual tradesmen and unskilled workers within the section. User equipment can also be installed and in some cases, equipment can be designed and manufactured. Any costs involved would be charged against the user’s account.

For further inquiries, as to service, maintenance and supply, contact Eric Young, Maintenance Supervisor, on ext 3995.
Joint University of Wollongong/Friends Celebration

Heritage Week begins on Monday

Jointly organised by The University of Wollongong and 'The Friends', Heritage Week begins on Monday April 17. The aim of the 'Week' is to commemorate Wollongong's past - something which will be done, for example, by a photographic display, at the Wollongong Historical Museum, illustrating the early elements of Wollongong.

Another public display will be staged by the ethnic community at the Mall on the Thursday evening and Saturday morning (in the event of bad weather at the Itsowel Centre, 21 Stewart Street, Wollongong).

The University's program is given below:

**Monday April 17**
- 10.30 am - Official opening of exhibition of Aboriginal artifacts and photographs by Deputy Vice-Chancellor Professor Rousch, Kemira Room, Union Building (refreshments provided).
- 11.30 am - 3.30 pm - Exhibition of paintings by Aboriginal artist, Ray Thomas, Creatives Arts Ground Level Foyer Area.
- 12.30 pm - The multicultural group Southern Crossings, duck pond lawn (Union Hall if wet).
- 1.30 pm - 2.30 pm - Lunchtime video Eora Corroboree (57 min), Aboriginal Education Unit, Demountable 10 (Building 49).

**Tuesday April 18**
- 10 am - 11 am - Demonstration of boomerang throwing by Laddie Timberey, lawn near the Greenery.
- Local Aboriginal artist, Reggie Ryan, will demonstrate his technique, Union Building ground level foyer area.
- 11.30 am - 3.30 pm - Exhibition of Aboriginal artifacts and photographs, Kemira Room, Union Building.
- Exhibition of paintings by Aboriginal artist, Ray Thomas, as above.
- 12.30 pm - Lunchtime forum: Education and Job Opportunities - An Ethnic Perspective, chaired by Professor Stephen Castles, Multi-Cultural Studies. Speakers: Goce Telechev from the Macedonian Welfare Association; Mary Kalantzis, Multi-Cultural Studies; Janice Wilson, Aboriginal Community; Students: Zoran Lozevski and Krishnakumar Seevaratnam. The Forum will be held on the duck pond lawn (in the Union Hall, if wet).
- 1.30 pm - 2.30 pm - Lunchtime video Boomalli (28 min) and It's A Long Way Back (12 min), Aboriginal Education Unit, Demountable 10 (building 49).

**Wednesday April 19**
- 10 am - 11 am - Boomerang throwing by Laddie Timberey, as above.
- Reggie Ryan, demonstration of Aboriginal art, as above.
- 11.30 am - 3.30 pm - Artifacts and photographs, as above.

12.30 pm - 1.30 pm - Lunchtime video The Secret Country (50 min) held in the Aboriginal Education Unit, Demountable 10 (building 49).
12.30 pm - Heritage film in the Union Hall (title to be announced).

**Thursday April 20**
- 11.30 am - 3.30 pm - Artifacts and photographs, as above.
- 12.30 - 1.30 pm - Traditional Aboriginal dancers will demonstrate several tribal dances, amphitheatre, opposite Administration Building, Western Campus.
- 1.30 pm - 2.50 pm - Lunchtime video Link-Up Diary (90 min) held in the Aboriginal Education Unit, Demountable 10 (building 49).

Food themes featured at lunchtime in the Union bistro, cafeteria and weigh-in (in the downstairs Eatery):
- Monday April 17 - Early Settlement
- Tuesday April 18 - Colonial Days
- Wednesday April 19 - Gold Rush!
- Thursday April 20 - Federation
- Friday April 21 - Modern Times

There will be an Historic Display in the Union Bistro during Heritage Week.

Convenor: Dr Winifred Mitchell
University Heritage Week Committee

Friends of the University

Encompassing-Graduate Group
Community Involvement Committee
Projects Committee
Bequests and Benefactions Committee

Calendar of events
April 12
Graduate Group meeting, 5 pm in Administration, room 303. All graduates welcome.

May 8
University Day Address and presentation of Ethel Hayton Trophy to individual or group having done most to foster university-community relations.

May 10, 11, 12
University Graduation days. Special bottling of graduation wine will be sold.

May 19
Friends of the University Annual General Meeting, 5 pm. There are over 1,000 members. Come and have your say on the future direction of the Friends.

A fine, still day in May should see the installation of the Hargrave memorial sculpture.

Further information on this from Muriel on 27 0073.
Research Funds

The sources of research funds given below are available to members of academic staff. Further information including application forms may be obtained from Kim Roser (ext 3201). Intending applicants are reminded that all research applications must be forwarded through the Office of Research and Postgraduate Studies.

National Energy Research, Development and Demonstration Project Grants
The National Energy Research, Development and Demonstration Council has invited applications for grants to conduct energy research, development and demonstration covering the whole range of energy technology areas.

Shale Oil Hydrotreating Research and Development Grants
The National Energy Research, Development and Demonstration Council specifically invites applications for grants to support research and development on the upgrading characteristics of selected tertiary shale liquids.

NERDDC Applications close with the University April 28.

Scholarships, Fellowships and Prizes

NH&MRC Visiting Postgraduate Research Scholarships in Australia
The NH&MRC have invited applications from overseas medical and dental graduates to gain full-time research experience and enrol for a higher degree in Australia. The scholarship is tenable for two years. Applications close with the University April 15.

Previously noted in Campus News

Australian Water Research Advisory Council
Grants and Awards
April 14

NH&MRC Public Health Development Grants
April 14

Rudi Lemberg Travelling Fellowship
April 16

German Language Scholarships
May 1

National Heart Foundation Grants
May 17

Clive and Vera Ramaciotti Foundation Grants
June 16

Rikkyo Fellowships
June 16

Matsumae Fellowship
August 17

AINSE Fellowships
August 17

AFUW (Qld) Fellowships
September 16

Health and Community Services Research Grants
Any time

...brings good news for women

You may be interested to hear that the disturbing judgement handed down by Mr Justice Einfeld, President of the Human Rights and Equal Opportunity Commission, not to award damages in a NSW sexual harassment case (Campus News for 30 August 1988) has been overturned by the Appeal Court.

The case concerned Dr Attalah Sheiban, who was before the Commission facing charges of sexual harassment against three women while they were employed by him as receptionists in 1985. Although Justice Einfeld found Dr Sheiban guilty he refused to award the receptionists compensation for loss of wages or injury to feelings.

The Appeal Court overturned this decision as well as declaring that the period of sexual harassment be extended to cover the time the three women were being interviewed for the position. Justice Einfeld had determined that since the women had been successful in obtaining the position, no detriment had occurred to them in the pre-employment period despite the fact that they were subjected to offensive questioning during the selection interviews. The Appeal Court has also ordered Dr Sheiban to pay compensation.

This is certainly good news for women in the workplace and in education. Our sex discrimination legislation is very important and a valuable asset that could easily have been undermined had Justice Einfeld's decision been allowed to stand.

Peg MacLeod
EEO Co-ordinator

Concerts, Exhibitions and Entertainment

Major Exhibitions at the Long Gallery
A major exhibition for Session 1 was opened on Friday March 10 at the Long Gallery in the School of Creative Arts. Featured were works of members of the Wollongong Ceramic Society; Works on Paper, presented by third-year students and the SCA Arts Bachelor of Creative Arts graduates, and finally there were the recent acquisitions for The University of Wollongong Permanent Collection. This section of the exhibition closed last Sunday.

A second exhibition, entitled Art and War, will feature Melanesian fighting and ceremonial dubs from the collection of Leo Fleischman and others. The opening ceremony will be carried out by Dr Harry Beran (by invitation) on Friday April 14 and the display will be open to the public from Sunday April 16 to Sunday May 14. A third exhibition, entitled A Celtic Dimension, will feature the work of Fine Art Students from Hiblin College of Art; ceramics by Robert Reid, formerly from Glasgow; and a harpsicord/dulcimer Celtic harp made by Don McDonald. The official opening (also by invitation) will be held on Thursday May 198 by Nick Vickers. Thereafter the displays will be open to the public from Friday May 19 until Sunday June 11.

The Long Gallery is open to the general public as well as to University staff and students Monday to Friday from 9.30 am to 12.30 pm and from 1.30 pm to 3.30 pm; and on Sunday from 1.30 to 3.30 pm.

During these times a sales area will be open.
Union Entertainment
The Battle of the Bands Talent Quest begins with Heat 1 on
Thursday April 13, with further heats on Thursday May 4 and
May 25. The final will take place on June 1.
Further information at the University Tavern Bar.
The Graduation Ball will be held on Friday May 12. Tables
may be organised now. The seating plan will be finalised on
Monday May 8.

The Tempest
The School of Creative Arts is to produce a season of The Tempest, a musical adaptation of Shakespeare's play, at the Bruce Gordon
Theatre, Wollongong Performing Arts Centre, beginning on May 12.
Visiting artists Lynne Williams and Stephen Edwards have
been brought from London to direct this exciting project.
Lynne is well-known in Wollongong for her previous
innovative productions, particularly such shows as West Side
Story and Jesus Christ Superstar with the Conservatorium Theatre
Company. She has been working in London and Europe for the past
four years as director, librettist, broadcaster, and performer.
Stephen is at the forefront of new music in London, both as a
composer and director. He is at present working with Sir
Peter Hall at the National Theatre and in London’s West End. His
latest work is about to open on Broadway.
This project is a continuation of their commitment to
generating new works for the musical theatre.
The School is also fortunate in having Jose Aerts from Holland
working as a visiting lecturer in Sculpture. She has a background
in theatre design and performance work, and has been appointed
to direct the design team for the production.
For your reservations: Wollongong Performing Arts Centre
(042) 26 3366.
Admission $16, concession $10 (pensioners and students);
school party members $6.
Performance dates are May 12, 13, 17, 18, 19, 20 – 8.15 pm; May
15, 16 – 11 am (senior school performance); May 13 and 20 – 2 pm
matinees.
The Tempest is on the HSC English list for 1989, so there are
two school performances and two matinees.

Scott Joplin Concert
A performance of music by Scott Joplin, orchestrated by Wal
Gregory, will be given at the Illawarra Performing Arts Centre on
Friday May 12 at 8 pm.
Performances include The Palm Court Orchestra with pianist
Nadia Kokot. Soprano Vera Troitsky will sing arias from Joplin’s
rattme opera Treemonisha.
Admission charges are $12 and $8 (concession). Phone
bookings: (042) 26 3366.

The Art of Lunch
The Art of Lunch started in 1988 as a showcase of weekly
performances for School of Creative Arts’ activities. It features staff, students and visitors to the School in a diversity of arts
activities. This season’s program features an exciting mixture of
cabaret, concerts of Baroque, contemporary and popular music,
writers reading from their own work, short plays, and visual arts
events. All performances are free and open to the public and are
held weekly on a Thursday (during session lunchtimes from 12.35
to 1.25) in the Music Centre, Building 24, on the western side of the
campus. The School of Creative Arts is a unique and extraordinary
department. The Art of Lunch is the School’s gift to the University
and the community at large.
April 13: Playwright Alex Buzo is writer-in-residence at the School
of Creative Arts in 1989 and will read from recent work.
Venue: Theatre.
April 20: John Stender presents a recital of Baroque music for
April 27: Theatrical things including mime, juggling and
satirical sketches as Short Back and Sides presents Hall a Pound of
May 4: Third-year Bachelor of Creative Arts music students
Kathleen Brennan (soprano) and Scott Saunders (baritone) present
May 11: Staff and students from the School of Creative Arts
present readings of new prose and poetry. Venue: Theatre.
May 18: New scripts #1: Head of Theatre at the School of
Creative Arts, Jeff Kevin, leads third-year directing students in
the first of two programs of new work. Venue: Theatre.

May 25: Final-year Bachelor of Creative Arts students Sue-
Ellen Lynch (flute) and Nicole St. Iln (viola) are joined by
Vanessa Lucas (violin) in Beethoven’s Serenade Op. 25. The
program will also feature the first performance of Andrew Ford’s
June 8: Wipe away the end of session blues with a Cabaret
performance by Music Theatre students lead by Wayne Dixon.
Venue: Music Auditorium.
Inquiries: (042) 27 0987 or (042) 27 0996. Parking: enter by
Western Entrance, Northfields Avenue. Admission: free.
Convenor: Andrew Schultz.

Wanted! — Audience to Attend Free Recitals
The Psychology Department of the University of Wollongong and
the Conservatorium of Music invite interested members of the
community to form an audience committed to attend, free of charge,
three 1hr 15min recitals to be given in the University Music
Auditorium (ex-Teachers College Auditorium) at 7:30 pm on
Friday(s) April 28 and June 9.
The recitals will involve 15 advanced student performers
participating in a research project centred on Psychology of
Performance.
It would be desirable if those wishing to take part commit
themselves to attending all three recitals, and provide an
anonymous rating of the performance by each artist according to a
single scale outlined in the program.
Intending participants should register their interest by phoning the Conservatorium on 28 1122 or 27 0533.

Advertisements

SALE BY TENDER
The University has a Metrotech underground pipe-and-cable
locating machine available for sale by tender. For inspection
contact Keiran Shepherd, Buildings and Grounds, on ext 3994.
Tenders should be placed in a sealed envelope addressed to
Business Services, the University of Wollongong, PO Box 1144,
Wollongong 2500, and noted on the outside front Tender for pipe
and cable locator. Tenders close 11.30 am April 21.

Also for sale by tender is an Apple Macintosh 512K Computer
with 800K internal drive, 400K external drive, ImageWriter 2
printer, manuals and software. Excellent condition. No guarantee
is offered on either of these items. Terms of sale are cash or bank
cheque. Sold as complete set. For information contact R. Lilley
(042) 27 0431. Tenders close 11.30 am April 14. Tenders should be
placed in a sealed envelope addressed to Business Services, The
University of Wollongong, PO Box 1144, Wollongong 2500, and
noted on the outside front Tender for Apple Computer.

WANTED
Visiting lecturer requires furnished accommodation for three
people from July 1989 onwards. Contact M. Atkins, ext 3759 (29
5740 ah) or the Department of Information Systems, ext 3958.

TO LET
Two-bedroom penthouse, 2 bathrooms, 3 open balconies, lock-up
garage, close to Wollongong hospital. Phone 27 0081 before 2 pm
or 28 8609 after 2 pm.

HOUSE EXCHANGE, Cambridge UK/Wollongong
Cambridge: Family home overlooking fields, on the edge of a
pretty village 8 miles NE of Cambridge (15 mins by car, regular bus
service used by University members). Converted, end two cottages
of a terrace, brick-built 1906, private drive, garage. Five bedrooms
Exchange for similar accommodation for family (six members)
in or near Wollongong for the same period or January-April 1990.
Contact Associate Professor Tony Hubert, Biology, ext 3437.

FOR SALE
Macintosh 512 Computer plus MacWrite Software, $1850. Phone
ext 3023 or 67 1037.
School of Learning Studies – Session 1
All sessions are on Wednesdays at 12.30 pm in Room 21.104. Coffee and tea provided.
Date: April 12
Speaker: Dr Michael Wilson.
Date: April 19
Panel: Dr Ted Booth, A/Prof Brian Cambourne, Dr Anne Cranny-Francis.
Inquiries to Bill Winser, ext 3963.

Department of Electrical and Computer Engineering
Topic: Research in Electric Drives at Wollongong University.
Speaker: Dr D. Platt.
Date and Time: Monday April 17, 3.30 – 4.30 pm.
Venue: Room 20.5.

Department of Psychology
Topic: Neural grafts and restoration of memory: Implications for Alzheimer’s disease.
Speaker: Associate Professor Nigel Bond, School of Behavioural Sciences, Macquarie University.
Date and time: Tuesday April 18, 12.30 pm.
Venue: Social Sciences Building, 19.1056.

Special Biomedical Seminar
Sponsored by STS and Department of Biology.
Title: Comments on Discrepant Findings on Phenoxy Herbicide Exposure and Cancer.
Speaker: Associate Professor Lennart Hardell, Department of Oncology, University Hospital, Umea, Sweden.
Date and time: Tuesday April 18, 12.30 – 1.30 pm.
Venue: Building 35, G19.

Department of Chemistry
Date and time: Friday April 14, 11.30 am.
Topic: Antibodies, chemistry and working out how the brain works.
Speaker: Dr Anthony Hodgson, Uniladvice.
Venue: Room 18.206.
Date and time: Friday April 21, 11.30 am.
Topic: Biomass burning – a source for atmospheric trace gases.
Speaker: Mr Jurgen Lobert, Max Planck Institute of Chemistry, Air Chemistry Department, Mainz, W. Germany.
Venue: Room 18.206.

Department of Physics
Date and time: Monday April 17, 12.30 pm.
Topic: Quark and Gluon Jets: trails of colour in a colourless world.
Speaker: Professor L.M. Jonos, University of Illinois at Urbana – Champaign.
Venue: Room 18.118.

Department of Computing Science
Date: Friday April 14, 1.30 pm.
Venue: Room 15.206A.
Topic: The Design and Simulation of Microprocessor Control Systems.
Speaker: Dr Ian Gorton, Lecturer, Department of Computing Science, The University of Wollongong.
Visitors parking on University grounds will be charged a parking fee of $1. This fee will be reimbursed by the department.
Alex Zelinsky
Convenor

Department of Philosophy
Date: Friday April 14, 10.30 am
Venue: Department of Philosophy Seminar Room, North Wing, Social Sciences Building, The University of Wollongong.
Speaker: David Braddon-Mitchell, The University of Wollongong.
Topic: For Causal Reductionism.
Inquiries to Ms S. Uniacke, (042) 27 0604.
All welcome.

Department of Accountancy
Seminars have been scheduled for March and April of this session. All seminars are held in the Social Sciences Building, Room 2001.
Date: Friday April 14
Presenter: Dr H. Wijewaradna, Department of Accountancy.
Everyone interested is cordially welcome. Inquiries to Hai Yap Teoh, tel. 27 0625.

Biology Seminars Session 1
Biology Department, Building 35 G19, 12.30 pm.
Tuesday April 18 – Dr E.J. Steele, Department of Biology, The University of Wollongong, Herbicide exposure and birth abnormalities: re-evaluation of some key published data considered by the Esatt Royal Commission.
Tuesday May 9 – Dr John Andrews, Research School of Biological Science, ANU, Subunit interaction and mechanism of Rubisco.
Tuesday May 16 – Dr Steve Handell, Rutgers University (visiting the School of Biological Science, Macquarie University), Plant population structure and pollination dynamics.
Tuesday May 23 – Dr Karen Chad, School of Health Sciences, The University of Wollongong, Metabolic rate: mechanisms and physiological significance in the prevention and treatment of mild obesity.
Tuesday May 30 – Dr Andy Davis, Department of Biology, The University of Wollongong, Title to be announced.
Tuesday July 4 – Dr Roger Truscott, Department of Chemistry, The University of Wollongong, How to stop rats getting cataracts.

Department of Civil and Mining Engineering
Research Series – Session 1
Venue for the seminars will be Room 138 Building 4, Photogrammetry Laboratory. Morning tea will begin half an hour before each session. All postgraduate students of the Department are expected to attend; all others are welcome.
Date and time: April 14, 12.30 to 1.30 pm.
Speaker: Professor R.W. Upfold.
Topic: Fires, Explosions and Risk.
Date and time: April 21, 11.30 to 12.30 pm.
Speaker: Professor A. Samarin.
Topic: New Cements and Concretes
Date and time: April 28, 12.30 to 1.30 pm.
Speaker: Mr T. Mobray.
Date and time: May 5, 11.30 to 12.30 pm.
Speaker: Professor A. Hargraves.
Date and time: May 12, 12.30 to 1.30 pm.
Speaker: Dr L.U. Nguyen.
Topic: Updating Expert Knowledge.
Date and time: May 19, 12.30 to 1.30 pm.
Speaker: Professor Y.C. Loo.
Topic: Integrated Design of Multi-Storey Reinforced Concrete Flat Plates on Personal Computer.
Date and time: May 26, 12.30 to 1.30 pm.
Speaker: Dr M. Sivakumar.
Date and time: June 2, 11.30 to 12.30 pm.
Speaker: Professor C. Gerrard.
Topic: Strength and Deformability of Rock Joints.
Date and time: June 9, 11.30 to 12.30 pm.
Speaker: Professor D. Carmichael.
For further information contact the Secretary, Department of Civil and Mining Engineering, The University of Wollongong, NSW 2500. Tel: (02) 27 0040, Fax (02) 26 0238.