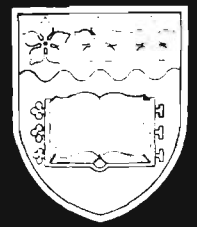


THE UNIVERSITY OF WOLLONGONG CAMPUS NEWS



14 August 1990

Professor Gerard Sutton appointed Deputy Vice-Chancellor

PROFESSOR Gerard Sutton — Pro Vice-Chancellor at the University of Technology, Sydney — has been appointed Deputy Vice-Chancellor at the University of Wollongong.

The appointment follows the resignation of Deputy Vice-Chancellor Professor Ian Chubb to take up the position of Chair of the Higher Education Council in Canberra.

At UTS Professor Sutton was responsible for research, computing services, international programs and continuing education, and he gained a reputation for his managerial and leadership qualities.

He was particularly successful in rais-

ing the profile and quality of research at UTS and in attracting significant research funding.

Professor Sutton holds qualifications in engineering from the University of NSW and a PhD from the Catholic University of America in Washington.

Professor Sutton said the University of Wollongong is well placed to seize the new opportunities created by the current challenges in tertiary education.

He saw that his role was to work with the Vice-Chancellor to ensure that the dynamism of the University is maintained and its full potential realised. He will take up his new position at the end of October.



Professor Gerard Sutton

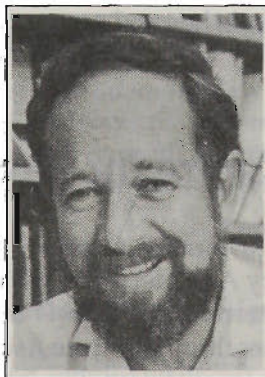
National Centre for Research Policy at Wollongong

THE Minister for Higher Education and Employment Services, Mr Peter Baldwin, has announced the establishment of a National Centre for Research Policy, to be headed by Professors Stephen Hill and Ron Johnston at the University of Wollongong.

The centre, to be funded initially at the level of \$1.2 million over three years, aims to more effectively support and manage the national research effort.

It will focus on ways of strengthening Australia's considerable research capabilities and making Australia more economically competitive, while safeguarding and strengthening environmental and social resources.

The centre will determine the direction Australia should take in developing research, technology and education strategies in order to achieve the goal of becoming a 'clever country'.



Professor Hill



Professor Johnston

The centre has developed out of the highly successful contract research Centre for Technology and Social Change (TASC) established by Professors Johnston and Hill in 1985.

TASC provides advice, consulting, research and training on science policy, innovation and technology strategy and management to a wide range of public

and private sector clients. TASC's turnover in 1989/90 exceeded \$1 million.

Professor Johnston, who has an international reputation in science and technology policy, has contributed significantly to the establishment of research policy as an important areas of inquiry in Australia, and to recognition of the important role of research. He is a member of the Australian Science and Technology Council which

advises the Prime Minister.

Professor Hill is an internationally recognised expert in the sociological analysis of scientific and technological development at the organisation and national level.

He is Chairman of the UN Science and

Continued Page 2

Intelligent materials research expands overseas connections

PROFESSOR Gordon Wallace has recently returned from a short visit to Chulalongkorn University in Bangkok.

Chulalongkorn and the University of Wollongong signed an exchange agreement last January and the purpose of this visit was to lay the groundwork for some collaborative research and training activities in Bangkok.

Professor Wallace lectured to post-graduate students from various disciplines and more than 50 scientists attended his one-day seminar on 'In Pursuit of Intelligent Materials'.

The scientists came from various disciplines from engineering to medical researchers and industrialists interested in solving practical problems. In an extension of activities in the South-East Asia region Professor Wallace will co-ordinate a training school on sensors and instrumentation for overseas research fellows.

This will be held at the University of Wollongong next month and sponsored by International Development Program (IDP).

IDP also will sponsor a workshop on a similar theme in Singapore in November.

Professor Wallace and three of his staff in collaboration with Dr Hari Gunusingham (NUS) and his staff will run the three-day workshop.

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Stephanie Short on top-level research committee

DEPARTMENT of Sociology lecturer Stephanie Short (pictured right) has been appointed to a top-level research committee by the Minister for Community Services and Health, Mr Howe.

Ms Short was invited to join the National Health and Medical Research Council's Public Health Research and Development Committee which provides grants to support and encourage the development of multi-disciplinary public health research in Australia.



Law Faculty appoints Canadian specialist in Energy Law

Ms SHEILA McALLISTER, a Canadian specialist in energy law, has accepted the position of Professor in the Faculty of Law at the University of Wollongong.

Ms McAllister is General Counsel with the Alberta Petroleum Marketing Commission, the largest marketer of crude oil in Canada.

The commission also regulates the natural gas industry under various statutes and regulations which Ms McAllister is involved in preparing, interpreting and implementing.

She has also had experience with a private corporation, Consolidated Companies, in securities law, pipelines, industry contracts and general corporate law, and has taught in both the Faculty of Law and the Department of Political Science at the University of Calgary.

She is a graduate in law and economics from the University of Calgary and has

been described as being one of that university's highest quality and most successful graduates.

She also has a Master of Education (English) from the University of Maine and a Diploma in Education (Accounting) from the University of Western Ontario.

She has combined a very successful professional career with scholarly and teaching interests.

Ms McAllister's specific experience in natural resources and mining law and her extensive practical understanding of the industry makes her an appropriate and valuable addition to Wollongong University's Faculty of Law.

The Faculty intends to develop several areas of specialisation including natural resources and mining law and court policy and administration. She will take up her appointment later this year.

National Centre for Research Policy at Wollongong

Continued from Page 1

Technology Policy Asia Network, which is developing international R & D and policy programmes throughout the Asian region.

The commitment of Commonwealth funds to the establishment of the National Centre for Research Policy at the University of Wollongong reflects the growing reputation of the University and its commitment to innovation and leading edge research.

Professor Johnston has just completed a paper on the transformation of in-house research into new products.

The paper, released by the Industry, Technology and Commerce Department, evolved from a survey of 128 companies in the communications and food processing industry.

The paper showed that companies with substantial investment in research and development tend to show a strong rate of growth in turnover.

The paper said the mark of a successful technology-based firm was a focus on a few related markets and products together with a high level of research and development.

ITS Group takes over computer support

THE Information Technology Services (ITS) Group has taken over the University's computer support function.

The group's formation rationalises the previous situation where support was provided by the Computer Services Unit, the Apple Consortium and the ADP Unit within Administration.

Each organisation had its own separate charter and reporting structure.

The ITS Group will provide a more integrated structure to address the needs of a diverse set of users around campus.

The structure and function of the ITS Group have been designed to provide a strong emphasis on support of basic computing services, an infrastructure to support the spread of the Campus Area Network and its use and support for users of PC applications.

The group will have four units: User Services, Business Development, Facilities and Technical Services and Systems Support.

The User Services Unit

(Gary Kelly, Manager Campus Personal Computing)

This unit will provide the campus with an over-the-counter first point of contact for services and information relating to ITS facilities. Where assistance is not based locally in the unit, it will refer problems to the appropriate support personnel within the ITS group.

The unit will also run the University's



ITS Group management (from left): Gary Kelly, Geoff Hamer, ITS director Greg Naimo and Jim McKee

retail personal computing outlet, selling Apple Macintosh computers, IBM-compatible PCs and software products.

The unit will be located in the former Apple Consortium Offices within the Library and provide first-line support for users of PC-based desktop applications. User Services will co-operate with the Centre for Staff Development (CSD) in the preparation of user training courses and educational materials and provide the ITS group with its publications, group newsletter and bulletin production services.

Facilities and Technical Services Unit (Manager: Jim McKee)

This unit has the responsibility of managing the University's central computer equipment and facilities and many of the

decentralised PC teaching laboratories.

It has responsibility for the Campus Area Network, with its high-speed fibre-optic backbone and Ethernet extension, being the major data communications resource of the University.

In conjunction with the User Services Unit, the unit operates the Central Response Centre for the reporting, tracking and resolution of service failure incidents.

The unit is involved in technical evaluations for the new campus telephone PABX system and its interaction with the campus network. The Computer Trainee Scheme is administered within this unit.

System Support Unit

(Manager to be appointed)

This unit provides the group with the specialist technical support for central software components such as operating systems, telecommunications systems, database products, security components and major applications like the Library on-line PALS system.

It is available to supply specialist consulting to campus users and provide solutions requiring a higher level of integration of facilities and software products.

Business Development Unit

(Manager: Geoff Hamer)

This unit solicits and develops business opportunities that will generate external revenue while not compromising service to internal University users.

On successful engagement with a client, the unit manages and co-ordinates their needs with the rest of the ITS group.

The unit also handles special projects such as the Computer Literacy Program and co-ordinated tendering and request for proposals for teaching laboratories.

Minimum fee for postgraduate award courses doubles

THE Australian Vice-Chancellors' Committee has condemned new Government directions that will double the cost of many postgraduate award courses from next year.

Courses offered for \$1800 a year for the past two years will rise to at least \$3300 a year. Students part-way through a two-year program or who are studying part-time will be hardest hit.

The universities are asking for a sunset clause to exempt these students if the Government proceeds with its unpopular ruling.

Programs affected are full-fee postgraduate award courses designed for professional upgrading or extension purposes.

The new Minister for Higher Education and Employment, Mr Baldwin, raised the minimum fee to one 'equal to or greater than double the discounted Higher Education Contribution Scheme charge'.

Students who pay the HECS charge up-front gain a discount. Next year's full HECS charge is expected to be \$1960 or \$1670 discounted.

Acting Executive Director of the Australian Vice-Chancellors' Committee, Mr John Mullarvey, said the about-turn in Government policy would deter many from upgrading their professional skills.

'The Minister's decision to double the cost of most courses must surely fly in the face of encouraging people to upgrade their skills,' he said.

'More importantly it is a breach of faith with students who are already enrolled.'

Open Day is shaping up to be spectacular

THE University's annual Open Day, to be held on Sunday August 26, will be a major promotion for the University.

Prospective students will be given information about courses, applications, prerequisites, accommodation, careers and how to approach tertiary studies.

Visitors with an ear for music will be entertained at a recital of Chopin works, performed by students from the Conservatorium.

A Spanish dancing display is also planned for the day. There will also be buskers, clowns, puppeteers, bands and associated activities.

For the second consecutive year, Planning and Marketing will conduct a survey by means of a questionnaire contained in the program. By completing the form visitors will have the chance of winning an Apple Mac Plus personal computer valued at more than \$4000.

The public forum this year will have the economy as its theme.

Speakers will be:

- Senator Bob McMullen, Secretary to the Treasurer;
- Senator Bronwyn Bishop, Secretary to the Opposition Economics and Business Task Force; and
- Chairman, Associate Professor John Steinke.

The Army will again report for duty, undertaking recruiting activities on campus during Open Day and during the following week on behalf of the University of NSW Regiment, University of Wollongong Company.

In the past the University has relied on student volunteers to assist with the day.

The Union's Secretary Manager, Noel Diffey, invited the University's clubs and societies to volunteer to help for the day.

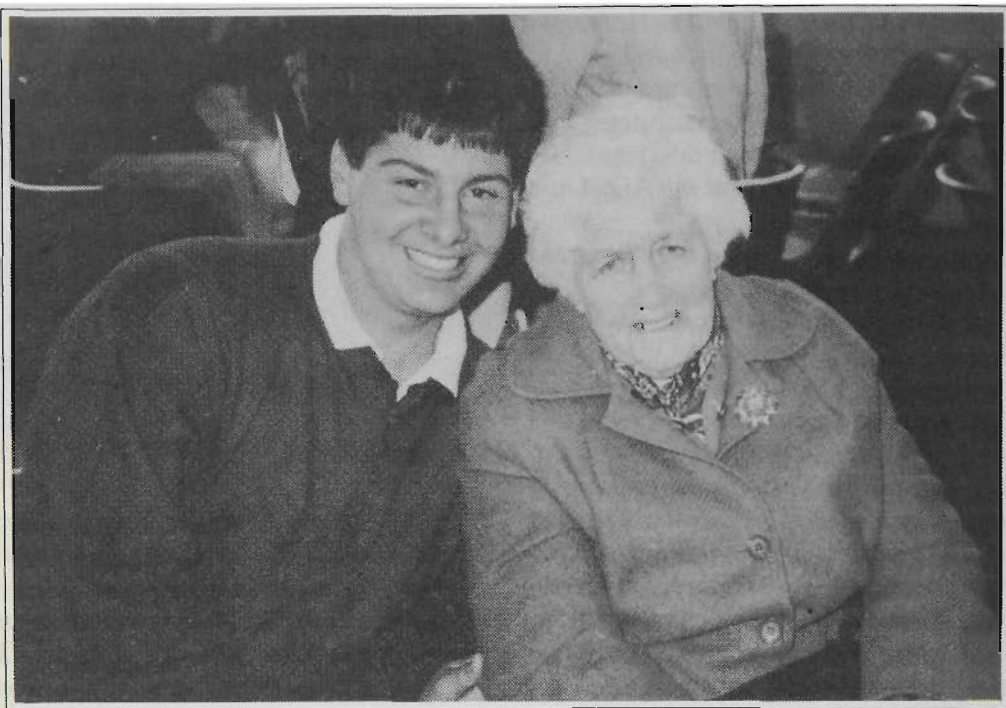
'This is an ideal opportunity to put something back into the University which has given you so much,' he said.

Volunteers are required to distribute leaflets in shopping centres on the Thursday night before Open Day and to assist with the distribution of brochures at University entrances on August 26.

It is anticipated that no one will be asked to give any more than two hours.'

Mr Diffey said any interested people should contact Ms Lorna Koetz in the Union Office who will arrange rosters.

Students taste great success



Jason Montgomery with Mrs Isobel O'Connor

INTERACTION with healthy elderly people is a focus of the Gerontic Nursing Program in the Diploma of Nursing course.

Culmination of the program was a social function at Bulli Hospital on July 6 to which students invited their mentors. One hundred and thirty people attended.

Physics student wins astronomy's

ROBERT REINFRANK, a 1989 Physics graduate, has been awarded the prestigious Bok Prize for astronomy.

Each year the Astronomical Society of Australia and Australian Academy of Science jointly sponsor the prize to encourage interest in astronomy among undergraduate students.

The Prize commemorates the energetic work of Bart Jan Bok in promoting undergraduate and graduate astro-

nomy during his term as Director of Mount Stromlo Observatory.

It is awarded to the senior undergraduate student submitting the best research report or substantial essay on an astronomical topic.

Reinfrank received the prize for work conducted as part of his Honours thesis — 'A CCD Survey of the Brightest Southern Galaxies'.

He conducted this survey on the Physics

Energy efficiency grant for Wollongong

THE Department of Electrical and Computer Engineering has received a grant of \$150,000 from the NSW State Energy Research and Development Fund to develop an energy-efficient electric drive.

The project will build on expertise in the department and the campus-based Electricity Commission Centre for Energy Efficiency.

An electric drive consists of a motor, a set of power electronics to regulate the power to it and a control system. In this project, a novel motor will use powerful neodymium magnets and new control strategies will be incorporated into the power electronics. It is expected that the efficiency can be improved by about 14 per cent.

The chief investigator for the project is Dr Don Platt.

From Wollongong Uni to Goa, India

SECOND-year Bachelor of Commerce student, Miss Delaina Tanner, has been selected as one of ten business students Australia-wide to attend the Asia Pacific Leadership Development Seminars in Goa, India from August 14 to September 3.

The seminars will be attended by 13 member nations of the Asia Pacific region and is organised by AIESEC International.

AIESEC (pronounced eye-sec) is a French acronym for the International Association of Economics and Management Students and has been operating in Australia for 25 years — boasting 22 local committees and 4,000 members on campuses throughout Australia.

Wollongong is the newest addition to AIESEC Australia and already claims the largest membership base.

The organisation is responsible for Higher School Certificate seminars, annual national business breakfasts and also runs one of the largest graduate exchange programs in the world.

The international conference aims to foster and develop managerial and leadership skills; analyse Australia's position in the Asia Pacific region; provide a fo-

rum for the transfer of ideas and information between neighbours and trading partners and travel, listen and learn about different cultures and foster internationalism.

More information from Miss Delaina Tanner at AIESEC, Tel. (042) 834319, (042) 291486, fax (042) 270477 att. AIESEC after 4 pm.

Pre-doctoral scholarship to Harvard

POSTGRADUATE Physics student Vincent McIntyre has been awarded a pre-doctoral scholarship to Harvard.

The scholarship will allow Vincent to spend one year at the Smithsonian Astrophysical Observatory while working on his thesis. It is expected that he will then return to Wollongong to complete his PhD.

Vincent is working in the Physics Department with Dr W Zealey on an astronomical project relating to starburst galaxies.

These galaxies appear to be undergoing unusually energetic bursts of star formation over extended regions.

It is to be expected that such galaxies will have a high incidence of supernova explosions.

Over the past year he has obtained radio and optical observations of a selection of such galaxies in an attempt to identify the most active sources. These will later be included in a supernova monitoring program which will begin using the Department's 40cm telescope.

Bok Prize

Department's 40cm telescope using the recently-acquired electronic CCD camera.

During this work he laid the basis for a continuing supernova search by obtaining images of several hundred Milky Way systems in the southern sky.

The presentation was made at the ASA General Meeting on July 18 by Dr D Allen, the Deputy Director of the Anglo-Australian Observatory.

Six receive honorary awards from Council

AT ITS July meeting the University Council approved the awarding of four Fellowships of the University and an Honorary Doctor of Science degree to be confirmed at the October graduation ceremonies.

An Emeritus Professorship was also awarded.

Four recipients of honorary awards — Mr and Mrs Efrem Bonacina, Mr Fernando Lelli and Mr Franco Belgiono-Nettis — share an Italian heritage with many of the University's staff, students and friends.

By their individual achievements, the four recipients were also seen as models of commitment and initiative to members of their community and members of the University.

Fellows of the University

Efrem and Giulia Bonacina received Fellowships for their 'outstanding service to the Illawarra community and support of the University'. They are both Life Members of the Friends of the University and take an active part in supporting the University in the community.

Mr Fernando (Nando) Lelli, one of the region's most prominent union leaders over the last 20 years, was also honoured with a Fellowship for 'services to the trade union movement and commitment to the people of the University's surrounding community'.

Mr Bert Flugelman received his fellowship 'for services to the arts and to the University campus and its students'. Mr Flugelman, a prominent artist and sculptor, has been a Lecturer and Senior Lecturer in Creative Arts since 1984.

Honorary Degree

The honorary award of Doctor of Science was awarded to *Mr Franco Belgiono-Nettis*, CBE, AM, BSc 'for his achievements in engineering, his support for the arts and his management and development of Transfield Ltd., a company of importance to the Illawarra'.

Emeritus Professorship

As reported in the last issue of *Campus News*, *Professor Ian Chubb* was awarded an Emeritus Professorship 'for his significant contribution to the University's academic development'. Professor Chubb leaves the University next month to take up appointment as Chair of the Higher Education Council of the National Board of Employment, Education and Training in Canberra.

Council approves academic promotions

COUNCIL, at its meeting on July 27 approved the recommendations of the Academic Promotions and Continuing Appointments Committee that:

- The following staff have their appointments converted to continuing status: Mr A. Avery, Ms J.J. Fares, Mr W. Funnell, Ms L. Jeneid, Mr M. Morrissey, Ms T. McDonald, Dr P. Sharrad, Dr C. Woodroffe and Dr P. Wypych; and

- The following staff be promoted to Senior Lecturer with effect from 1 January 1991: Ms T. McDonald, Dr C. Woodroffe and Dr P. Wypych.

Women's Issues Group

Dr MacLeod talks on catastrophic illness

Dr. PEG MacLEOD entertained and informed those who attended the Women's Issues Group meeting on July 24 in the boardroom of the Union Building.

Dr MacLeod spoke on 'Coping with Catastrophic Illness' and attitudinal healing.

She explained how the support groups are organised, how they all started and talked about the beneficial effects which have resulted.

Head gardener at the Botanic Gardens Steve Popple later spoke to the meeting on how to compost in a small garden and he also tried to sort out gardening problems that were put to him in the question-and-answer session.

The next meeting has been arranged for Tuesday August 28 at 7.30pm.

The first speaker will be journalist Robyn Slater whose talk is called 'Life with Robyn'. Barbara Lee will follow with 'Living with 32 Men'.

Everybody is welcome. Cost: \$2.50 per head. Enquiries to Moira Bowman Tel. 843741.

EEO news....

\$500 prize for Illawarra AIDS project

THE ILLAWARRA AIDS Taskforce will award a prize of \$500 to the University of Wollongong student or students submitting the best 1990 term project on AIDS.

Projects completed in the first session are acceptable.

Deadline for submissions is October 31. Contest application forms are available from the University's EEO Unit, Building 36.

The prizewinner will be announced on December 1, International AIDS Day.

This year's focus is on Woman and AIDS, but any AIDS-related topic is acceptable for the prize.

EEO News will keep you informed of the progress of this contest and the winning entries.

— PEG MacLEOD,
EEO Co-ordinator

Radio survey with CSIRO

MEMBERS of the Astronomy and Astrophysics Group in the Department of Physics have increased their involvement in radio astronomy in the last year.

This has in part been stimulated by the recent commissioning of the Australia Telescope operated by CSIRO and their moves to encourage collaborative projects with the universities.

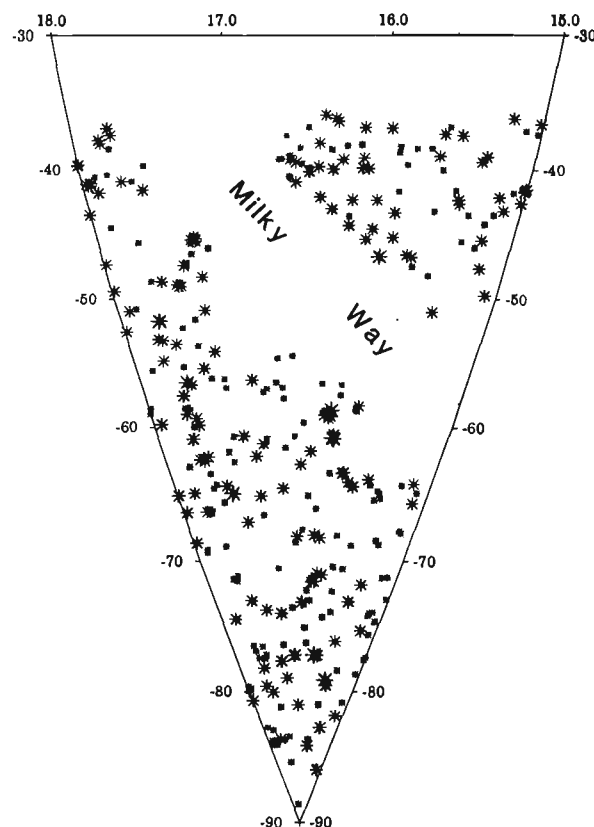
The involvement is a logical extension of our existing research in multi-spectral observations of star forming regions both in our own Milky Way and in other star-burst galaxies.

The collaboration resulted in M Suters, P Randall, V McIntyre and Dr W Zealey taking part in the CSIRO-MIT-NRAO 6cm Survey, carried out in May/June using the 64-metre Parkes radio telescope.

For 16 days the 1000-tonne telescope continuously scanned the sky, closely monitored by CSIRO staff, university students and academic staff.

The exercise provided a unique experience for the postgraduate students involved.

Any reward lies in obtaining first



An early plot of a small region of sky toward the galactic centre mapped as part of the survey. The blank area running top left to bottom right represents the Milky Way, an area where the sources are too densely packed to be identified in a 'first-look'.

access to the catalogue of tens of thousands of objects, many of them previously unknown at radio wavelengths.

The work of establishing infra-red and optical identifications will be aided considerably by the computer image processing experience.

Participation in the International Astronomical Union meeting

THREE members of the Physics Department presented papers at the International Astronomical Union Asian-Pacific regional meeting at the University of NSW.

The IAU allows the development of astronomy in all of its aspects through international co-operation.

Dr W Zealey offered two papers on 'Astronomy and Astrophysics at the University of Wollongong: A Targeted Approach' and 'Star Formation and Outflows'.

Mr V McIntyre and Mr M Suters contributed papers on 'Starbursts in Ring and Irregular Galaxies' and 'IRAS Colours of Young Stellar Objects'.

The regional meeting was preceded by a symposium on the magellanic clouds. The Physics Department's Mr G K G Moore presented a paper entitled 'Long Period Variables in the Small Magellanic Cloud' at the symposium.

A highlight of the meeting for the Physics Department was the presentation of the Bok Prize for Astronomy to Mr R Reinfrank who graduated from the Department in 1989.

What's on

Union annual dinner

THE UNIVERSITY Union's 25th Annual Dinner will be held on Friday August 31.

Guest speaker will be Dr Karl Kruszelinicki, with music by *Cassy and the Bossabeats*.

Tickets are on sale at Union reception office. Members \$22, guests \$28.

Reddington exhibition

THE ARTIST in Residence at the School of Creative Arts, Charles Reddington, is holding an exhibition of paintings in the Long Gallery from August 16 to 26.

Hours of the exhibit are Monday to Friday 9am to 12.30pm and 1.30pm to 4pm and Sunday from 1.30pm to 4pm.

A preview will be held on Wednesday August 15 from 7pm to 8.30pm and will be opened by Dr Peter Shepherd.

Zoo visit

THE ILLAWARRA Committee for Overseas Students has organised a visit to Taronga Zoo on Saturday September 1.

Details and tickets are available from the committee office in the Union Building next to the Careers and Appointments Service, on Tuesdays, Thursdays and Fridays from 9am to 2pm. Tel. (042) 270158 or ext. 3158.

Theatre space

THE STANWELL Park Amateur Theatre and the Wollongong University Singers are performing Henry Purcell's *Dido and Aeneas* at the University's Performance Space on Saturday and Sunday at 8pm.

Tickets are available from Marie Sorenson. Tel. (042) 941207.

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 Lyndal Manton (ext. 3201). Intending applicants are reminded that all research applications must be forwarded through the Office of Postgraduate Studies.

Illawarra Area Health Service Research Grants

Applications are being called for small research projects or to initiate research likely to attract funding from elsewhere.

The University closing date is 21 September.

Australian Research Council (ARC)

Australian Postgraduate Course Awards 1991

Forms are now available for scholarships to study Masters and PhD degrees by course work.

The University closing date is 28 September.

The British Council

Academic Link and Interchange Scheme (ALIS)

ALIS Travel Grants from the British Council are continuously available. Bias is towards applicants in Science, Technology and Engineering.

The University closing date is anytime.

French Government Postgraduate Scholarships 1991/92

Scholarships are available in the fields of French literature, linguistics and teaching French as a foreign language.

The University closing date is 21 September.

Swiss Government Postgraduate Scholarships 1991/92

A scholarship is to be offered for one year's study in a Swiss university. A sufficient knowledge of French or German is required and a language test will be given.

The University closing date is 14 September.

Visiting Fellowships

Dept of Employment, Education & Training (DEET) is calling for nominations for Visiting Fellowships for the 1991-92 academic years. There are three types of awards: Commonwealth Scholarship & Fellowship Plan for fellows from Commonwealth nations, Australian European Awards - fellows from European countries and Australian Greek awards - for fellows from Greece.

The University closing date is 24 August.

Previously Advertised Closing Date

Laporte Centenary Scholarship	August 17
NHMRC Program Grants	August 17
Australian Rotary Health Research Fund	August 17
Fenner Conference on the Environment	August 17
St John's College, Cambridge, Benians Fellowship	August 18
Nuffield Foundation Fellowship	August 31
Harkness Fellowships	August 31
AINSE Research Grants	August 31
CSIRO Postdoctoral Awards	September 7
ARFI's	September 14
Columbian Scholarships	September 14
Corpus Christi College Visiting Fellowship	September 14
1991 Fulbright Awards	September 21
Australian Academy of Science Medals	September 21
Sir Harry Gibbs Prize (Forensic Science)	September 28
OPRA Awards	September 29
Menzies Scholarships	September 31
Robert McNamara Fellowship	October 12
Maxwell Jacobs Forestry Fund	October 19
Gowrie Research Scholarship	October 19
Rebecca Cooper Research Foundation	October 26
APRA Awards	October 31
UPRA Awards	October 31
Lady Davis Fellowships	November 16

School of Creative Arts Diary

Tuesday August 14: Music and performance special project by Trevor Brown, Performance Space, 8 pm.

Wednesday August 15: Artist in Residence Charles Reddington, *Preview*, the Long Gallery, 7 pm.

Thursday August 16, Artist in Residence Charles Reddington, *The Art of Lunch*, Music Auditorium, 12.35 pm.

Saturday and Sunday August 18 and 19, Spats and University Singers present Purcell's opera *Dido and Aeneas*, Conducted by Rod Lander, in the Performance Space, 8 pm.

Thursday August 23, Composer in

Residence Anthony Gilbert, *The Art of Lunch*, Music Auditorium, 12.35 pm.

Thursday August 23, Paintings and drawings by Belinda Arnold, *Preview* Art Arena Gallery to September 2.

Saturday August 25, City of Wollongong Symphony Orchestra, *1990 Subscription Concert*, Lisa Moore, piano, Wayne Dixon, Conductor, Illawarra Performing Arts Centre, IMB Theatre, 8 pm.

Sunday August 26, Open Day.

Monday August 27, *Arts in the bar*, a Monday evening of reading / music / performance, common room, Student Union, 8 pm.

Seminars

Australian Institute of Management

August 16: Mr Nando Lelli, president of the South Coast Trades and Labor Council, *Industrial Relations in the Illawarra—Major Lessons from the Past and Prospects for the Future*. To be held at Cleo's 16 Burelli St, Wollongong, from 5.30pm. Cost \$8.

August 25, 26: Louise Meyrick, BA DipEd. To be held at Oasis Conference Centre, 146 Wingang Road, Primbee. Cost \$350, \$335 for Institute member company, \$320 for personal Institute member.

Contact the Institute (042) 27 0075 for bookings or more information.

Department of Biology

Seminars are held in Building 35.G19, on Tuesdays at 12.30 pm.

August 21: Dr Ron Brilansky, University of Florida, USA, *Decline diseases of citrus*.

August 28: Ms Lesley Hughes, Biological Sciences, Macquarie University, *Seed dispersal by ants*.

Further information from Dr Rob Whelan, tel. (042) 27 0442 and Associate Professor Ross Lilley, tel. (042) 27 0431.

Department of Business Systems

Thursday August 23 at 12.30 pm in Pentagon 5: David Nash, Telecom, *How competitive is Telecom?*

Department of Chemistry

Seminars are held in Chemistry Lecture Theatre (Building 18.206)

Thursday August 16 at 11.30 am: Dr Peter Schwerdtfeger, Research School of Chemistry, Australian National University, *Relativity and heavy element chemistry*.

Thursday August 23 at 11.30 am: Dr Mary Garson, Department of Chemistry, University of Queensland, *Marine sponge chemistry becomes a work of art*.

Thursday August 30 at 11.30 am: Dr Dale Hurst, Department of Chemistry, University of Wollongong, *Tropospheric carbon monoxide*.

Department of Economics

Seminars are held on Thursdays from 11.30 am to 12.30 pm in Building 19.1056.

August 16: A D Ratna, University of Colombo and School of Business and Technology, University of Western Sydney, *Dilemma of an open island economy*.

August 23: J C Baldry, Department of Economics, University of New England, *The production of illicit commodities in the shadow economy*.

Enquiries to the Convenor, Associate Professor Tran Van Hoa, Office 19.2069, fax (042) 27 0477, tel. (042) 27 0659.

Department of Electrical and Computer Engineering

August 20: Professor Hugh Bradlow, Director of the Nortel Technology Centre, *Back to The Future: The Whys and Hows of Intelligent Networks*.

Equity in Education program

Meetings will be held in Building 21.104 at 4.30 pm.

Thursday August 23: Noeline Kyle, Ron King

and Michael Stone, *Interdisciplinary approaches to telling lives*.

Enquiries to Associate Professor Noeline Kyle, tel. (042) 27 0374 or Ms Jan James (042) 27 0078. Coffee/tea provided.

Department of Geography

Seminars are held in Building 19.G026 from 12.30 to 1.30 pm and are open to all who would like to attend.

Wednesday August 15: Dr I Hay, Department of Geography, University of Wollongong, *Medical malpractice insurance and the restructuring of US tort law*

Monday August 20: Professor E G Purdy, Esso Distinguished Lecturer, *The Coral Reef problem*.

Wednesday August 29: Associate Professor G C Nanson, Department of Geography, University of Wollongong, *Quaternary environmental change in Australia. 300,000 years B.P. to the present*.

School of Learning Studies

Seminars are held on Wednesdays at 12.30 pm in Building 21.104

August 15: Michael Stone, *Author consciousness in JM Barrie's Peter Pan*.

August 29: B Tapp, *Schools-Industry Links in the South Coast region*.

Enquiries to Bill Winsor, Co-ordinator, School of Learning Studies, ext. 3963

Gender and Education Unit

Seminars are held in Building 21.104 at 4.30pm on Fridays (unless otherwise indicated).

August 17*: Associate Professor Noeline Kyle, Co-ordinator, Equity in Education Program, *Telling the lives of 'ordinary women': the case of women teachers*.

Tea/coffee provided at all seminars. Enquiries to Associate Professor Noeline Kyle, tel. (042) 27 0374 or Ms Jan James (042) 27 0078.

Department of Management

Friday August 17 at 12.30 pm in Building 19.1003: Paul Patterson, *Expectations and perceived product performance as determinants of customer satisfaction for a high-involvement purchase*.

Friday August 24 at 12.30 pm in Building 19.1003: Professor Julian Lowe, *Problems of non-response in business research*.

Friday August 31 at 12.30 pm in Building 19.1003: Dr Philip L Dawes, *Personal (informal) communication networks for industrial technological purchase decisions*.

Department of Materials Engineering

Seminars to be held jointly with the Wollongong University Student Chapter of the Metallurgical Society on Tuesdays from 4.30 to 5.30 pm in Building 1.134 (unless otherwise specified). Enquiries to Associate Professor D. Dunne, tel. (042) 27 0014.

August 14: Dr K. Snowden (ANSTO), *Creep and fatigue at elevated temperatures*.

August 28: Dr Aibing (UW), *Particle size segregation*.

Department of Mathematics

Thursday August 16 at 1.30 pm in Building 15.204 (Austin Keane Building): Dr Joan Cleary, Department of Mathematics, University of Wollongong, *Hilbert Cubes, Cantor Cubes and Locally Compact Groups*.

Friday August 24 from 4-5pm in Room 20.5 (Pentagon Building): Dr Neville de Mestre,

Associate Professor of Mathematics, Bond University, *Computer Ecology: With Chaos*.

Visitors wishing to park on the University grounds will be charged as \$1 parking fee. This will be reimbursed by the department.

Department of Physics

Wednesday August 15 at 7.30pm in Pentagon 3: Dr MA Dopita, Mt Stromlo and Siding Spring Observatories, Australian National University, *The Hubble Space Telescope*.

Thursday August 16 at 12.30pm in Physics Lecture Theatre: Mr M Gal, School of Physics, University of NSW, a Colloquim: *Optical Bistability in Semiconductors*.

Wednesday August 29 at 7.30 in Pentagon 3: Dr B Allen, Biomedicine and Health Program, ANSTO, *Neutron Capture Therapy — A Physicist's Incursion into Medicine*

Department of Psychology

Staff and postgraduate series

Seminars are held on Tuesdays from 12.30 to 1.30pm in the Department of Psychology, Room 19/1056.

August 14: Lee Di Milia, Department of Psychology, the University of Wollongong, *Twelve-hour shift-working, performance and individual differences*.

Barry McNamara, Department of Psychology, the University of Wollongong, *Aspects of employer assistance programmes*.

August 21: Dr Linda Cupples, Department of Psychology, the University of Wollongong, *Some aphasic patients understand more than they know — a study of sentence interpretation*.

August 28: Associate Professor Linda Viney, Department of Psychology, the University of Wollongong, from 5.30 to 6.30pm in Room 19.1064, *The psychosocial functioning of people with AIDS and AIDS carers: A report from the Wollongong AIDS project*.

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