

# Australian Research Council grants almost doubled for '92

THE University has significantly improved its performance in the Australian Research Council Grant Scheme when the 1992 results are compared with the 1991 round.

The results of the 1992 round were announced on October 22.

Large Grants totalling \$1,137,000, an Equipment Grant of \$200,000, a Research Fellowship of \$40,000, a Small Grant fund of \$315,000, together with ARC funds attracted by recent appointees to the University who will be taking up their positions in 1992, means that the University will almost double its funding from the ARC in 1992.

A delighted Dean of the Graduate Faculty, Professor Bill Lovegrove, said the result is a credit to the hard work put into the ARC applications this year by the applicants, with help from Research Program Coordinators and members of the Graduate Faculty.

The number of successful initial Large Grant applications rose from seven to 14, plus the Equipment Grant.

Professor Lovegrove said the University's performance in the Large Grant round has a major effect on other research funding available to the University.

This includes the Small Grant allocation (based on performance in the ARC Large and Equipment Grants) and the Mechanism A Infrastructure funds (based on performance in ARC, NH and MRC and other Federal Government funded research schemes).

The improved performance will mean extra funds will be available to the University from these other sources in 1992.

The announcement of the result of the 1992 round heralds the fact that the 1993 round is about to start.



Professor Bill Lovegrove

In fact, staff have already been invited, through the Research Program Coordinators, to start drawing up draft applications for submission by the end of November to members of the Graduate Faculty and to Program Coordinators for comment.

As well, an information session is to be conducted by Peter Wood, Manager of the Academic Services Branch, at 9.30am on Friday November 29 in Building 14.

Peter will pass on information obtained about the 1993 round from a Workshop for Research Administrators being conducted by the ARC in the week preceding the information session.

Successful initial applicants were:

- Associate Professor Hulbert (Biology): \$60,000 (plus \$45,000 for each of the next two years);
- Dr Ayre, Associate Professor Whelan and Dr Davis (Biology): \$102,500 (plus \$100,000 in 1993 and \$101,000 in 1994);

- Dr Pyne (Chemistry): \$30,000;
- Dr Fergusson and Dr Carr (Geology): \$35,000;
- Dr Hutton (Geology) and Dr French: \$36,000 (plus \$36,000 in 1993 and \$32,000 in 1994);
- Associate Professor Richards (STS): \$25,000;
- Professor Broadbridge and Professor Hill (Mathematics): \$46,000 (plus \$45,000 in 1993 and \$46,000 in 1994);
- Dr Williams (Management): \$17,000 (plus \$21,000 in 1993);
- Associate Professor Dunne and Dr Delamore (Materials Engineering): \$25,000 (plus \$25,000 in each of 1993 and 1994);
- Associate Professor Loo (Civil & Mining Engineering): \$33,500 (plus \$27,500 in 1993 and \$25,500 in 1994);
- Dr Delamore (Materials Engineering): \$46,000 (plus \$46,000 in 1993);
- Ms Nightingale (Materials Engineering): \$44,000;
- Dr Griffith (Chemistry): \$25,000;
- Dr Metwally (Economics): \$45,000;
- Dr Sheil (Chemistry): \$200,000 (Large Equipment Grant).

Recent appointments include Professor Seberry (Computer Science) who is involved in three grants totalling nearly \$200,000; Professor Bremmer (Chemistry) who received a \$66,000 grant; and Professor Bern (Sociology): \$32,000.

Renewals for 1992 are as follows (Chief Investigator only named):

- Professor Kane-Maguire (Chemistry): \$51,000;
- Dr Griffith (Chemistry): \$56,900;
- Associate Professor Nanson (Geography): \$105,000;
- Professor Moloney (Modern Languages): \$25,000;
- Dr Duff (Physics): \$75,000;

Continued page two

THE marketing group within the Department of Management organised a highly successful Marketing Careers Day on October 22.

The aim of the day was to provide undergraduate and postgraduate marketing major students with the opportunity to learn about career paths in marketing.

Prominent guest speakers from major companies included the General Manager Marketing of the State Bank of NSW, Ian McDonald, Marketing Manager of the AMP Society, Genevieve Vignes, and the President of the Australian Direct Marketing Association, Greg Baker.

Career advisers from Illawarra schools also attended and appreciated the opportunity to hear about trends in marketing careers.

THE invisible college is flourishing on AARNET and there are discussion groups related to most disciplines.

Participation gives access to scholars throughout the world and provides opportunities to access the latest developments before they appear in print.

The Library has obtained a copy of the complete Directory of Scholarly Electronic Conferences which is available for consultation at the Information Desk, or on request, relevant subject sections can be transferred to a department via e-mail.

Listings in the directory give a brief outline of the group and address details.

Subscription instructions are also listed in the directory.

For further information contact Pam Epe, ext. 4176.

NOMINATIONS close today (Nov 6) for the election for one of the two academic staff members of the University Council.

Nomination forms may be obtained from the Academic Services Branch.

THE Students' Representative Council is offering for the first time three undergraduate and one postgraduate awards for students at the University of Wollongong.

The Merit Equity Scholarship Awards to be presented on March 1, 1992 represent a unique opportunity for units to reward students who have performed well in their chosen

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**Editor and Media Contact:**

Gillian Curtis

Telephone (042) 21 3110

**Editorial Production**

Kevin McDonald

**Photography**

Vic Wood

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## Brief News

field despite equity barriers that might reasonably have been expected to impede this achievement.

In defining equity the Government's six equity targets would be a good starting point.

Staff or students can nominate an individual.

Each award will consist of a non-redeemable book voucher at the University of Wollongong Union Bookshop to the value of \$200 as well as a cash prize of \$50.

Nominations close on November 11. The results will be announced on March 1, 1992. For further information contact Craig Wallace, Vice-President, SRC, tel: 28 9144.

UNIVERSITY personnel are advised that the cashier's office will be open from 9.30 am to 4.30 pm on all normal working days with the exception of Tuesday December 24.

The office will close at noon on December 24.

All creditors' cheques must be collected before noon.

Uncollected casual salary cheques for the period ending December 20 will be posted on Monday December 23.

THE Children's Christmas Party will be held on Saturday November 30 from 11am on the field west of the Recreation and Sports Centre.

There will be plenty of entertainment, rides and surprises. The cost per child is \$8.

The usual Christmas Hamper Raffle will be drawn on the day, but the organising committee needs donations to fill the hamper.

THE Australian Consortium for Social and Political Research Incorporated, which promotes the use of machine-readable social science data, annually runs a summer program in social research methods.

The next program will be held at the University of NSW from February 2-14.

Courses range from those suitable for lecturers wanting to introduce research methods into their programs to those dealing with state-of-the-art techniques for experienced researchers. The closing date for applications is November 22.

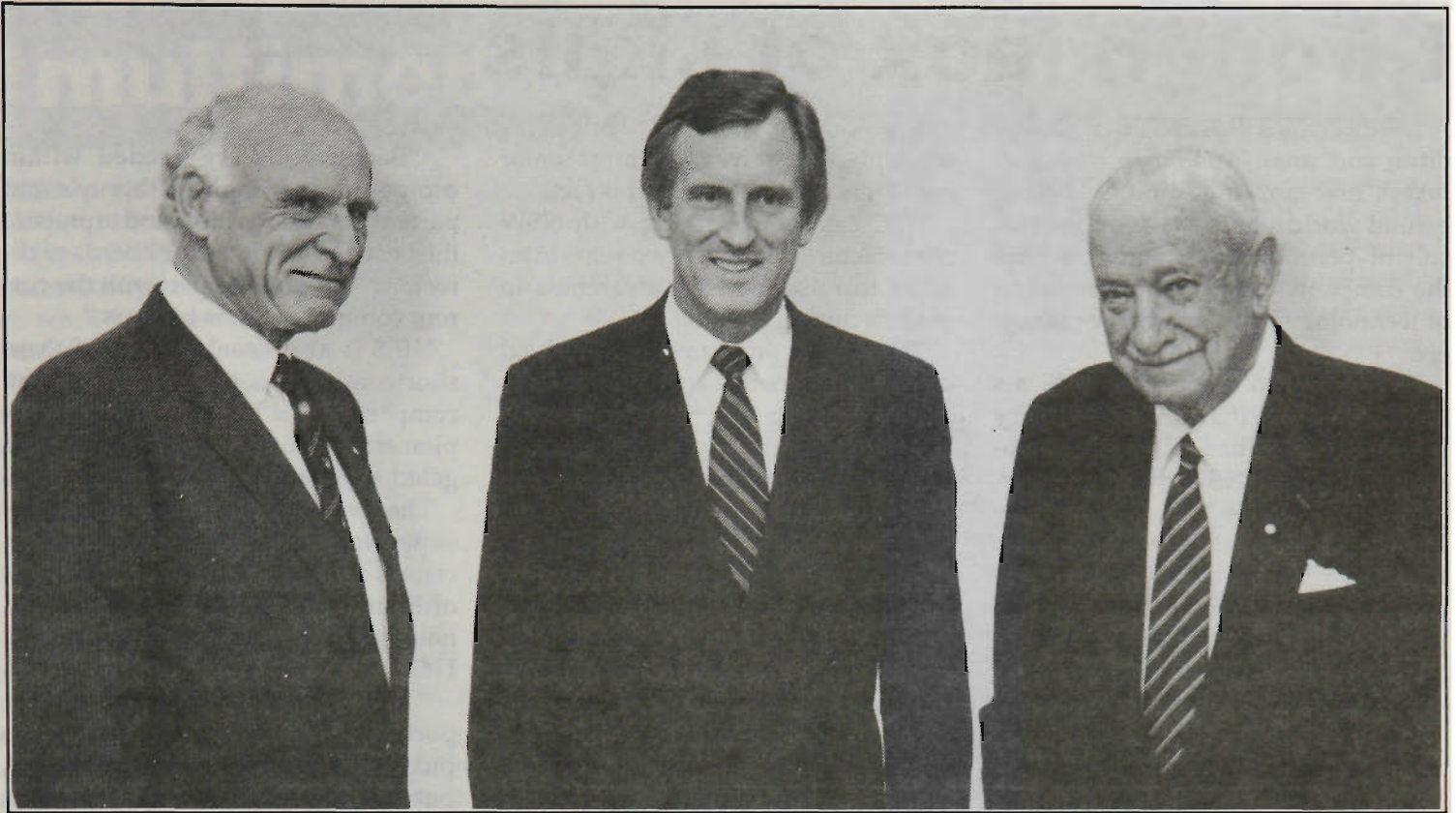
Further information and application details are available from: The Executive Officer, ACSPRI, Social Science Data Archives, Australian National University, GPO Box 4, Canberra ACT 2601, or tel. (06) 249 4400 or 2200.

## ARC grants up for '92

*From page one*

- Professor Lewis (Economics): \$33,100;
- Professor Lovegrove (Psychology) - two grants: \$25,900 and \$32,000;
- Associate Professor Dunne (Materials Engineering): \$30,000;
- Dr Kohoutek (Civil & Mining Engineering): \$25,000;
- Professor Schmidt (Civil and Mining Engineering) - two grants: \$26,000 and \$31,000;
- Professor Wallace (Chemistry): \$35,000.

# Dr Hewson presents Kirby lecture



Chancellor, the Hon. RM Hope, Dr Hewson and Sir Richard Kirby

Dr JOHN Hewson, Leader of the Opposition presented the 1991 Sir Richard Kirby Lecture on Tuesday, October 22, in the Hope Theatre.

An audience of about 400 attended the lecture.

The Sir Richard Kirby Lecture series began in the 1970s. It is an opportunity for the introductory industrial relations students at the University of Wollongong and members of the public to hear first-hand the views of an outstanding Australian practitioner, commentator or policy maker in Industrial Relations.

Sir Richard Kirby, who was President of the Arbitration Commission until 1973, now lives in Cudmirrah in retirement with Lady Kirby. Sir Richard Kirby has a long association with the University of Wollongong.

The topic of the 1991 Sir Richard Kirby lecture given by Dr Hewson was *Reforming Australia's Industrial Relations*.

A group of about 100 demonstrators from the South Coast Labour Council attended, but the occasion was notable in that the University provided a forum in which opposing views were



Professor Ed Davis, a member of the executive committee of the Industrial Relations Society, who, with Sir Richard, presented the prizes



Prizewinners Barbara Dean (above) and Yasmin Rittau

expressed in a non-disruptive manner.

During the evening the 1991 Industrial Relations Prizes were awarded as follows:

■ Barbara Dean – I.R.S. Prize for top student in Introductory Industrial Relations in 1990 and Eric Derra Young Prize.

■ Yasmin Rittau – Hilda Kirby Prize for best essay on 1990 Kirby Lecture.



# Manufacturers miss the boat through lack of skills

A CONSIDERABLE majority of medium and small Australian manufacturers are marking time or falling behind world standards as a direct result of poor communications within the companies and poor appreciation of technology by many senior managers.

These are two of the key problems identified by the Illawarra Technology Corporation Limited (ITC) after a two-year study with NSW manufacturers, conducted for the National Industry Extension Service (NIES), according to Mr. Paul Howlett, a General Manager at ITC responsible for transfer and implementation of advanced manufacturing technologies into manufacturing operations.

"In the first instance, technology is misinterpreted to mean only hard systems such as machines, automation and production tools," Mr Howlett said.

"When really, technology involves both hard and soft issues. By soft issues, I mean systems and organisations, change, people programs, training, and how manufacturers go about their business.

"These are just as essential to make

new production machines work as the machines themselves, and most senior managers are unaware of this fact."

"ITC has been working with NSW manufacturers for over two years in an effort to raise industry awareness in manufacturing technology.

"The NIES program has involved over 2000 companies and clearly shows we're delaying any revitalisation of manufacturing or any hope of tapping into export markets - simply because we don't have internal systems and people able to facilitate change and take advantage of the opportunities which are before us.

"This is despite the opportunities offered by a host of excellent government incentive schemes which are woefully under-utilised by Australian manufacturers."

Mr Howlett maintains that internal communications between technical and financial departments is also a key factor in our failure to kick-start new manufacturing projects and developments.

"The production engineers usually know what is needed to get things going, but the economic rationalists who control the finances won't be easily

swayed," he said.

"Better skills are needed within companies to bring together relevant parts of the organisation, and to prepare the best possible case for boards of directors. It won't happen with the current communications barriers."

NIES is also keenly aware of these shortcomings in our manufacturing companies, and have asked ITC to implement a "kick-start" program targeted specifically at these issues.

The program will be financially supported by NIES and involve specialists from the Australian Chamber of Manufactures, University of Technology Sydney, Mitsubishi Electric, and ITC.

"This program is an excellent opportunity for NSW manufacturers to pick up their game and, in the process, put themselves in a favourable position to participate in other schemes of funding provided through NIES and the Department of Industry, Technology and Commerce," Mr Howlett said.

Further details of the NIES study and the new kick-start program can be obtained by contacting Paul Howlett, tel. (042) 26-8999 or fax (042) 27-2171.

## Health for All Fair in the Illawarra

THE collaborative approach to primary health care and health promotion involving practical working links between the University of Wollongong, Illawarra Area Health Service, Healthy Cities Illawarra and the Illawarra Public Health Unit has won special recognition.

As part of the evaluation of the National Better Health Program conducted by the National Centre for Epidemiology and Population Health, the centre's interim report includes several case studies under the title Excellence in Australian Practice from around Australia.

The report's authors call these studies "exemplary practice in primary health care and health promotion as it presently exists".

The Illawarra gets a special mention among the 27 case studies.

Director of the Illawarra Public Health Unit, Dr David Jeffs, said: "Key members of the above organisations have been working together for several years.

"It is heartening to see our efforts being recognised at a national level and held up as examples of good practice.

"Our practice is based on the principles set out in the Ottawa Charter for Health Promotion and supported by the National Better Health Program in Australia."

Dr Jeffs said Health for All is an abstract concept that does not mean much to many people.

"In order to give this approach a

higher profile locally, we are organising a Health for All fair," he said.

"This will be held by the Duckpond/Union Building at the University of Wollongong on Thursday December 5 from 5-9pm.

"As well as giving recognition to our many successes using a Health for All approach, we will be promoting the theme that health can be fun."

The keynote speaker will be Professor Don Nutbeam, the Professor of Health Promotion at the University of Sydney.

Professor Nutbeam was responsible for the Heartbeat Wales Program in the UK, which saw a marked reduction in heart disease in all social groups. For more details, tel. (042) 26 5000.

# ETF funds development of multimedia training course

A NEW project being funded by the NSW Education and Training Foundation Pty Ltd (ETF) shows how Government, industry and the education sector can work together towards making Australia the clever country.

The objective of this joint project, between the University's Information Technology Services, A W Tyree Transformers of Mittagong and ETF, is to build multimedia training modules for all the tasks that are involved in the manufacture of electrical transformers.

The resultant training courses will be delivered on a standard IBM-compatible personal computer reinforced with hands-on instruction and practice as required.

The computer will need to be equipped with color monitor, graphics card, sound card and speakers to deliver the full range of media being incorporated into the lessons.

Project coordinator Geoff Hamers said that the people taking the computer-based courses are not likely to be impressed by "silent movies" or lots of text without pictures.

"We need to make the presentations

at least as interesting as an average TV quiz show," he said.

The actual material for each course module - script, including questions and answers, photographs and engineering drawings - will be provided by Tyree's Quality and Training Manager, Alan Balla.

From these a structured computer lesson will be designed and programmed by a small, enthusiastic team led by Helen Carter of the University's Information Technology Services Department.

Helen sees the main challenge as finding the right mix of screen text, picture, sketch, animation and voice-over to maximise the trainee's interest without overdoing the gee-whiz factor.

Presentation standards are being developed during the early days of the project; one of the first is to present the trainee with a set of multiple choice "keep awake" questions at least every three screens, in order to make sure that he or she understands the material being presented.

Any wrong answers will cause the

relevant material to be re-presented in more detail.

Managing Director of A W Tyree Transformers Pty Ltd, Paul Toshack, said he has felt the need for multimedia-based interactive training programs for the electrical industry for some time.

He said they would be firstly a tool to improve and maintain quality, safety and efficiency in the manufacturing process and secondly as an integral part of achieving and maintaining Tyree's quality assurance accreditation licence (AS 3901) and, thirdly, as an effective aid towards introducing restructuring and multi-skilling in the workforce.

He sees the partnership with the University as an ideal one for the development of multimedia-based training programs for Australian industry. This is the fourth engineering-oriented University project being sponsored by the NSW Education and Training Foundation.

The other projects involve the development of computer-based training and simulation techniques for the coal mining and materials handling industries.

They are being supervised by Professor Bill Upfold and Dr Dennis Montgomery of the Department of Civil and Mining Engineering.

The University's Pro Vice-Chancellor, Professor Lauchlan Chipman, said that he was delighted with the ETF sponsorship of these projects.

He added that the University of Wollongong had a particular interest in the application of information technology to the learning process - both in industry and in formal education - and is working towards the establishment of a million dollar Multimedia Open Learning Laboratory (MOLAB) - to research, develop and implement computer based teaching methods.

He was particularly pleased that members of staff were demonstrating the initiative to get such projects off the ground, pending the availability of MOLAB.

## Pedestrian cycleway and bridge over F6 Freeway delayed

THE following advice has been received from the Minister for Roads regarding our expectations that we would soon have a pedestrian and cycle bridge over the F6 Freeway between the TAFE College and the University.

"I refer to your letter concerning the allocation of funds for a pedestrian/cycle bridge over the F6 Southern Freeway between the University of Wollongong and the Wollongong TAFE College at Gwynneville.

"The desirability of completing the project as early as possible is fully appreciated.

"The position is that, NSW like the rest of Australia is in a recession and, as the Premier had previously indicated, there will be no new capital works commenced this financial year.

"As outlined in the State Budget, all available funds are being directed to maintenance and rehabilitation works and to the completion of current projects.

"Whilst there are no funds available for a commencement of the bridge in question this financial year, design of the pedestrian/cycle facility is being finalised.

"This will ensure that when funds do become available tenders can be invited and work commenced promptly.

"In the circumstances, I am sorry that I am unable to be of assistance on this occasion."

# Centre for Staff Development workshops

**November 6:** Liz Ellis, CSD. Subject and Course Design - 9.30am-4.30pm.

This workshop is designed to assist academic staff to design subjects and courses in accordance with requirements outlined by the Undergraduate Studies Committee.

**November 7 and 8:** Jan James, CSD. Selection Techniques for Academics 9.30am-4.30pm.

This workshop offers academic staff the opportunity to develop an awareness of the official procedures for staff selection in the University and the skills required to ensure proper applications of these procedures.

**November 8 and 15:** Dr Robyn Iredale, CMS. Cross-Cultural Communication 10am-1pm

This workshop will emphasise the development of skills for operating in a culturally diverse environment.

**November 11 and 12:** Dr Max Gillett, CSD. The Lecture Method - 9.30am-12.30pm.

This workshop will deal with preparing, giving and evaluating lectures with a view to improving personal performance.

**November 13:** Barry Russell, ACS. Small Group Teaching 9.30am-12.30pm.

Participants will experience a range of small group techniques and will consider the theoretical underpinnings and purposes of the method.

**November 14:** Dr John Panter, CSD. An Introduction to Problem-Based Learning 1.30-4.30pm.

Problem-based learning is grounded in the belief that learning is most effective when students learn in the context where the knowledge is to be used. This implies a way of shaping the learning program. This course will involve exposition and discussion and should lead to trial course modules for particular discipline groups.

**November 14:** Lynette Simons, On-

the-Spot Productions. Introductory Media Training 9.30am-4.30pm.

This workshop is designed to teach staff how to communicate clearly and effectively with the media. It will involve writing press releases, conducting radio and television interviews and evaluating personal performance in these exercises.

**November 15:** Lynette Simons, On-the-Spot Productions. Advanced Media Training 9.30am-4.30pm.

Only staff who have completed the Introductory Media Training workshop or who have had equivalent experiences should enrol in Advanced Media Training as the course consolidates previously acquired skills. Participants will practise mounting publicity campaigns and holding prolonged interviews. They also will investigate ethical questions in journalism.

Enquiries: Dr Max Gillett, ext. 4101, or Jan James, ext. 3946.

## Centre for Advanced Manufacturing and Industrial Automation

**November 8 and 15:** Dr Peter Gibson and Paul Bryant, *Accreditation (Quality Standards)*.

**November 14:** Dr Yixin Yao, *Condition Monitoring in Manufacturing*.

**November 27 and 28:** Professor G. Arndt, Ross Kennedy, Rex Honey, *Total Productive Maintenance*.

**December 2:** Dr Des Tedford, *Industrial Ergonomics Today*.

**December 3:** Dr J.D. Tedford, *Project Planning and Control*.

**December 4, 5 and 6:** Professor G. Arndt, Dr P. Gibson, *Advanced Quality Techniques*.

**December 10:** Dr S. Ghahreman, Dr C. Gulati, *Introduction to Statistical Process Control*.

All of the seminars will take place at the Wollongong Surf Leisure Resort Conference Centre, Pioneer Road, Fairy Meadow starting at 9am.

## Centre for Research Policy

**November 12:** Professor Lauchlan Chipman, *Research in the Humanities in Australian Universities*, 10.30am.

## Seminars

**November 19:** Associate Professor Gill Bottomley, Macquarie University, *Legitimate Knowledge: an attempt to introduce the work of Pierre Bourdieu into an analysis of the Australian knowledge system*, 10.30 am.

Seminars will be held at the Centre for Research Policy, Building 29. Enquiries Dr Tim Turpin ext. 3270.

## Department of Biology

**November 12:** Associate Professor Tony Hulbert, *Oils ain't oils - why cats eat meat*

**November 19:** Associate Professor Ted Steele, *Somatic hypermutation in antibody V-genes*

**November 26:** Dr Glenda Sullivan-Tailyour - to be announced

**December 3:** Associate Professor Rob Whelan - to be announced  
Location: Lecture Theatre 35.G19 at 12.30pm - 1.30pm.

## Department of Economics

**November 6:** Richard Bryan, Department of Economics, University of Sydney, *Coal Mine Closures*.

All seminars 11.30am-pm. Room 40.224 (unless otherwise stated).

Enquiries: Associate Professor Tran Van Hoa. Office: 40.207, Fax: (042) 21 3725, Ph: (042) 21 3659.

## Department of Mechanical Engineering

**November 6:** Professor Colin Andrew:

Seminar one, 2 pm; "Education in manufacturing at Cambridge"

Seminar two, 3.15pm: Flexible processes for sheet metal.

Seminar Room, Department of Mechanical Engineering, Building Eight level one.

## Education Policy Program

**November 14:** Ian Brown, *Introduction of design education: Implication of educational policy*.

**November 15:** Associate Professor John Hedberg, *Information technology and education organisation*.

All seminars will be held in building 21, room 101 at 12.30pm.

**Australian International Development Assistance Bureau**  
*Aboriginal and Torres Strait Island Scholarship*

Applications are invited from people of Aboriginal and Torres Strait Islander origin to fund their final year of tertiary study. The external closing date is 15 November.

**Department of Employment, Education and Training**

*Australian-Greek Travel Awards 1992/93*

Applications are called for people wishing to further their study or professional experience in Greece for up to six months. Preference is given to applicants with basic competency in Greek. The University closing date is 31 January 1992.

**Grape and Wine Research and Development Corporation**

*Project Grants 1992/93*

Preliminary applications are called for research projects in any area re-

**Advertisements**

Due to the increased demand for this section, in future it will be available only to staff and present students. Anyone wishing to advertise must complete a form in Planning and Marketing, Administration Building. This advertisement will be run once. For a repeat it will be necessary to complete another form.

**FOUND**

Found on campus, one pendant on gold chain. Contact Elizabeth Cuthbert, ext. 3202.

**FOR SALE**

Lounge suite \$120, single bed \$120, pine desk \$90, entertainment unit \$70, pine chairs \$40 each. Phone Elaine ext. 3491.

**WANTED TO BUY**

Back pack. 80-85 litre capacity, central zip. Tel 28 6705 (ah).

**WANTED TO RENT**

Publisher, doctor and baby are looking for a house to rent in the Wollongong area from late January 1992 for 6-12 months. We need a 3br house with a studio or large study area and are happy to housemind a partially or fully-furnished house. If interested write to: Mrs J Player, 441 Balmain Road, Lilyfield, 2040.

**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 Graduate Office.*

lating to the grape and wine industries. The University closing date is 22 November.

**Australian Federation of University Women**

*South Australia Inc. Trust Fund Bursaries 1992*

Applications are called for three bursaries available in 1992 for women undertaking postgraduate degrees (Masters or PhDs) at any Australian tertiary institution. The external closing date is 29 February 1992.

**Association of Rhodes Scholars in Australia**

*1992 Postgraduate Scholarship*

Applications are called from overseas Commonwealth university graduates wishing to undertake postgraduate study in Australia. The scholarship is tenable for two years with a possible extension of one year. The external closing date is 15 December.

**Previously Advertised Closing Date**

The British Council Travel

Grants Any Time

Australian Academy of

Humanities (Publication

Subsidies) Any Time

Clive and Vera Ramaciotti Travel

Grants Any Time

Criminology Research

Grants Any Time

Japanese Science and Technology

Awards Any Time

National Teaching Company

Scheme Any Time

Korean Government Scholarships

1992 November 8

Wool R and D Corp New

Grants 1992/93 November 15

General Practice Evaluation

Program November 22

Pig R and D Corp Project Awards

1992 November 22

ATERB Project Grants

1992 November 22

Netherlands Government

Scholarships 1992 November 29

NSW Coal Preparation Scholarship

1992 November 30

Canadian International Postdoctoral

Fellowship December 1

Coopers and Lybrand Accounting

Grants December 20

AINSE P/Grad Research Awards

1992 December 20

BTR/FCO Oxford/Cambridge

Scholarships December 31

CBI Scholarship (Aust. Britain

Society) December 31

Cotton R and D Project

Awards 1992 January 31

**Grants Received**

Carver, Dr J, Dept of Chemistry, National Health and Medical Research Council, Mechanism of Human Cortical Contact, \$37,000 approx pa for three years.

Truscott, Dr R, Dept of Chemistry, National Health and Medical Research Council, Silicon Graphics Computer, \$15,000

**Publications Received at the Graduate Office**

1991 Australian Research Council Grants and Fellowships Listing.

A LIMITED number of SAS manuals are available for sale at the prices shown below:

Copies	Title	Price
1	SAS/ETS User's Guide V.5	\$45
3	SAS/OR User's Guide V.6	\$45
2	SAS/GRAPH User's Guide V.6.03	\$45
2	SAS/Technical Report-Producing Macintosh Graphics from SAS/GRAPH Output	\$5.50
4	SAS/FSP User's Guide V.6.03	\$36
1	SAS/QC User's Guide V.5	\$45

Call in to ITS Reception, Ground Floor, Building 15, or ring ext. 3850.

■ Toshiba Information Systems Division is holding seminars and demonstrations on their range of notebooks and laptops on November 6. The day starts at 11am in Kemira Rooms 1, 2 and 3 in the Union Building. Seminars include: Windows to the future, Technology now and in the future, and Get connected. . . .technologically speaking. All staff and students are welcome. Toshiba machines will be on display all day. Contact Karolyn Wilson, ext. 4116, or Allen Chang, ext. 3831, for more information.

■ The popular Bridge Recitals of music, food and wine conclude for 1991 on November 10 with Australia's internationally acclaimed classic-folk ensemble, Sirocco. The four members of Sirocco play a dazzling array of instruments, including the didgeridu, the bagpipes and the Mongolian lute. Along with gourmet 'finger food' and the excellent music, the afternoon's entertainment will cost \$28 (\$18 concession). Bookings can be made with Margaret Sharrad on 28 1843 or Bridge Theatre, 29 6144.

## What's On

■ A three-hour workshop – Effective Planning of Study Leave – will be offered by Professor Lauchlan Chipman and Ross Walker (Personnel) on Friday November 15 in the staff training room at 9.30am. If you wish to enrol please contact Max Gillett on E-mail – ITS PO – or ext. 4101 or Val Roberts on ext. 3618.

■ David Millar is presenting a lecture, An Evening with Mozart, on Friday November 15 at Level 7, Illawarra Electricity, Bridge Street, Coniston from 7pm. The lecture will last for two hours with a break for a chicken and champagne supper. Tickets are \$20 and \$15 for students. All proceeds to the Shepherd Centre for Deaf Children at Figtree.

■ The City of Wollongong Symphony Orchestra is holding its fourth and final subscription concert for 1991 at the IMB Theatre, Illawarra Performing Arts

Centre, on November 23. Bass singer Keith Hempton and soprano Danielle Everett will perform arias and duets on stage, with some acting and costuming, in the roles of Figaro and Dr Bartolo, Cherubino and Susanna. Keith Hempton is Lecturer-in-Charge of the Wollongong Conservatorium. Danielle Everett is completing her Bachelor of Creative Arts studies at the University of Wollongong.

■ Upcoming events for the Illawarra Committee for Overseas Students are: November 30: Australia Wonderland \$15 and \$10. Persons participating in ICOS activities are responsible for themselves in case of injury or accident. Tickets and details are available from the ICOS office in the Union Building next to the Careers and Appointments Service, Tuesday, Wednesday and Friday 9.30am-2pm. Tel. 21 3158 or ext. 3158.

■ Agenda deadlines for meetings of the University's ethics committees are: Human Experimentation Ethics Committee: December 7.

# Open Day at Conservatorium

THE University of Wollongong Conservatorium of Music Open Day will be held at Gleniffer Brae on November 10 from 11am-4pm.

The day will feature:

- Performances and studio recitals;
- A courtyard concert from noon-1.30pm;
- Demonstrations of the Childhood Music Education

Program;

- Rehearsals of the BHP Youth Orchestra and Wind Ensemble and the Junior String Orchestra;
- Friends Music Stall and Shop.

Enquiries to the Conservatorium on (042) 28 1122 and 21 3533.

# New hockey centre available for play

THE University's new Hockey Centre, which features Illawarra's first synthetic grass playing field, will be well used during the warmer months.

Summertime Sevens soccer and Summertime Sevens hockey are being played each week.

Men's and women's sevens soccer are on each Thursday under lights from 6-10pm.

Hockey features junior sevens (ages 14-16) for girls (Mondays 5.30-8.30pm) and boys (Tuesdays 5.30-8.30pm).

Fridays are the nights for veterans sevens (35-50 years). Men and women will play from 7.30-10.30pm. On Sundays the competition is mixed from 6-9pm.

For more information contact Mark Shepherd, tel. 28 1266.

## Stop Press

### BLUE FOLDERS MISSING

Blue folders containing the annual subject file updates distributed to Departmental Heads were due back to Management Information and Planning by November 1.

Only 50 per cent have been returned. Please return as soon as possible.