

THE UNIVERSITY OF WOLLONGONG

CAMPUS NEWS



5 June 1990

DIABETES AND SHIFTWORK

Education Centre Register established for those affected

EACH HOUR in Australia four new cases of diabetes mellitus are diagnosed. There are 500,000 people in Australia who have been diagnosed as suffering with diabetes mellitus and this number increases by about 42,000 cases each year.

Medical science has been unable to find a cure for diabetes. The best that can be offered to these people is a combination of diet, exercise, and in some cases drugs, to maintain them in optimal health. The management regimens developed for individuals are most effective when followed in a consistent and routine manner. Any disruption to this routine can

cause problems for people with diabetes.

Many people living in the Illawarra are employed in shiftwork or working schedules that require them to work outside the usual 7 - 9 am to 3 - 5 pm 'business hours'. At the best of times this situation is disruptive to individual and family functioning. The disruption caused by shiftwork to people with diabetes effects not only their lifestyle but may also affect their health.

Researchers from the University of Wollongong and the Diabetes Education Centre are attempting to learn more about the effects of shiftwork upon diabetes

control and also to identify ways individuals cope with this situation. To complete this project successfully, it is necessary for these researchers to contact people with diabetes who are required to work shifts or unusual hours, or have done so in the past. All information will be treated with strict confidentiality and participants will be known only to the researchers.

The researchers are appealing to people with diabetes who are employed in a shiftwork situation to register with the Diabetes Education Centre by telephoning 20 1301.



University visit by Italian envoy

Australia's new Italian Ambassador, Dr Francesco Cardi, visited Wollongong and the University on May 25.

Also in Dr Cardi's Illawarra itinerary were the steelworks and the Italian Nursery Village at Unanderra. He is seen here standing to the right of Professor Brian Moloney of the Department of Languages. Italian is one of Professor Moloney's specialities. During his career he has edited the prestigious journal, Italian Studies

Marine science research grant to Biology student

Ms ALISON HUNT, a PhD student in Biology, has received a grant for \$1,230 from the Victorian Institute of Marine Science. This funding will allow her to extend the geographic range of her study of the genetic connections between populations of two common species of Australian starfish. Samples will now be collected from several areas of the Victorian coast. Data from this and other projects, within the Australian Flora and Fauna Studies Program, are contributing to the understanding of the reproductive strategies and dispersal patterns of some eastern Australian marine invertebrates.

Reminder

Noon this Friday, June 8, is the copy deadline for the June 19 issue of *Campus News*

Foundation Law Librarian

JOHN BAHRIJ, appointed as the foundation Law Librarian, started work yesterday. John has held several managerial positions with TAFE library services, his latest was as regional librarian for the Orana Region based at Dubbo. Previously, he worked at the University of NSW and Macquarie University law libraries.

John will be responsible for continuing the development of the law collection which will be used to support courses beginning in 1991. The Law Library will be located in the main library until alternative accommodation is available. By January 1991 the general monograph collection will have been relocated to occupy more of the new section of the Library.

The Law Collection will be available to all University personnel and will include a separate reserve room, reference desk and Library staff work area. Based on current trends, the area will be sufficient for three years' collection growth. Arrangements have been made to acquire the basic law reports and primary materials which are essential to professional legal study. The Chancellor, the Honourable R.M. Hope AO CMG QC, has donated a large amount of material. Approaches have been made to the major legal publishers and most have offered assistance in the form of considerable discounts on purchases.

During the next six months, newly acquired law materials which are not required for current teaching will be catalogued and kept in closed access. This is necessary as the law collection will use a

different classification system to the Dewey system used in the general collection. Once the Law Library shelving has been installed, selected materials from the existing serial and monograph collections will be recatalogued and relocated. All law material will be included in the PALS catalogue.

Staff remuneration

STAFF will be aware that in December 1989 the Council endorsed the development of a Remuneration Package. The Package, if implemented, offered financial advantages to participating staff. This was, in effect, recognition of the erosion of salaries in the tertiary sector and was seen as a way for the University to offer a financial benefit to staff without it being a significant impost on the recurrent budget.

The package that was developed is not revolutionary: it is based on an increasingly common approach used to augment income without additional cost to the employer. It is based on an employee electing to have a financial commitment paid by the University before the deduction of income tax, with the cost of the commitment and the cost of Fringe Benefits Tax charged to the staff member. The financial benefit to the staff member accrues, at no extra cost to the University,

because income tax is deducted from a salary made lower by the earlier payment of the employee's financial commitments (plus Fringe Benefits Tax). Should a staff member elect to participate in the Package, the base is naturally at least the salary specified under the relevant award.

Council, in endorsing the Package, recognised that implementation could be phased in over time so that, eventually, it could be made available to most staff. Staff may be aware that the University has now begun the implementation of the policy by offering the arrangement to Deans, for whom there is no award provision. An extended implementation on a wider basis would then have followed.

Whether the University can now extend the offer beyond Deans will remain unclear for some time. It appears that if the University were to extend the offer to other staff it could be liable to a retrospective claim by a staff member for the difference between taxed income and the award salary; an employer apparently has a legal obligation to pay the award rate specifically as salary.

Because of the obvious financial benefit to staff, the University began negotiations; first with FAUSA, to determine whether the Association would join with the University to have an award variation certified by the Industrial Relations Commission, or even to reach an agreement with us to support the University should any staff member raise what would be, in essence, a spurious claim albeit one with a legal basis. Regrettably, no agreement has been reached, nor is one likely, so the University is now considering its options.

Graduate Faculty to be established

IN LIGHT of its endorsement by the Academic Senate on Wednesday May 23, the University will, subject to Council approval, move to establish a Graduate Faculty with responsibility for the development of Postgraduate Programs and Graduate Schools as well as Research Programs and research students. The Graduate Faculty will be headed by a Dean (Postgraduate).

In the first instance, if there is a suitable candidate, the University will probably make an internal appointment to this position. It will also be possible initially for the Dean to hold another office (for example Head of Department) simultaneously.

Accordingly, the University invites expressions of interest from senior academic staff for the post of Dean (Postgraduate). Details of the requirements of the post, and the conditions including salary which apply, may be obtained from the Manager, Personnel Services.

Applications, together with a full curriculum vitae, should be lodged with the Manager, Personnel Services, by 5 pm Friday June 8. A Selection Committee chaired by the Vice-Chancellor will confirm an appointment if the Council endorses the recommendation of the Academic Senate to establish the Faculty.

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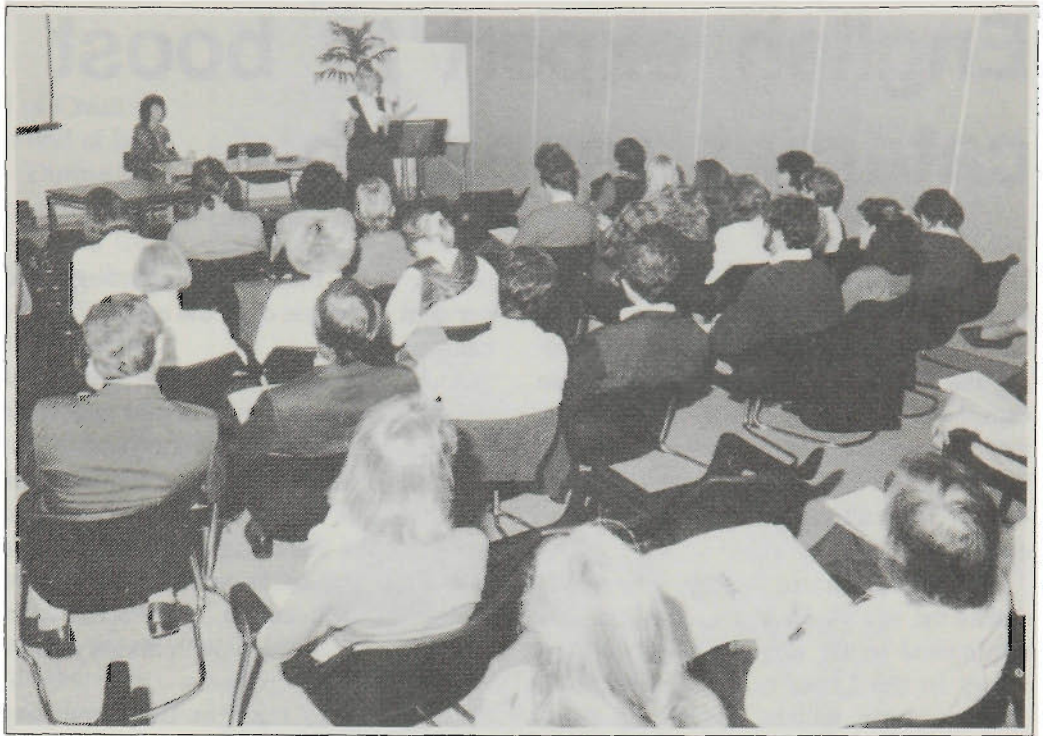
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Computer Assisted Learning (CAL) in Libraries

A SUCCESSFUL seminar on computer-assisted learning was held on May 18 in the University's Kemira Room. The idea for the seminar originated from the Library's development of CAL (computer assisted learning), programs and was taken up by the Library's Staff Training and Development Committee.

The seminar was organised by Craig Grimison (Information Services Librarian), Petra Carpenter and Fiona McGregor (Acquisitions staff). Technical assistance was provided by Neil Cairns (Technology Development Librarian), who was also a speaker. Other speakers included Joan Phillips from the Library and Rob MacGregor from the Department of Information Systems who were both involved in the development of the Library's packages. Other experts who presented papers and demonstrated programs were Rosemary Bunnage, Deputy Law Librarian, Monash University, Lee Di Milia, BHP's Training and Development Officer and John Messing, Senior Lecturer in Computing at Charles Sturt University.

Seminar participants represented a cross-section of libraries. Delegates were particularly interested in the demonstrations of various CAL programs provided by the speakers. The University Library's own PC-based packages include a tour of the Library, an on-line catalogue simulation and a guide to Library Services. The latter is also available using Hypercard. These appear to be in the forefront of developments in libraries. A lively panel session on the pros and cons of CAL was chaired by Craig Grimison and concluded a successful and informative seminar.



Above, Felicity McGregory, seminar co-ordinator, seated facing audience with Rosemary Bunnage, Deputy Law Librarian, Monash University, addressing the well-attended seminar; lower picture, Rosemary Bunnage in close up

geological mapping, marine research and demographic studies.

The course succeeded in its aims and gave everyone a thorough understanding of the capabilities of SPANS and how it may be used both as a tool in individual research projects and in teaching students about the potential capabilities of a GIS in modelling complex geographical information. Eight people from the Department attended and included academic and technical staff – Geoff Black (Technical Officer), Ted Bryant (Senior Lecturer and Acting Head Geography Department), Axel von Krusensteirna (postgraduate student), John Marthick (Professional Officer), John Nott (postgraduate student), Toni O'Neill (Lecturer), Hilary Winchester (Lecturer) and Ann Young (Lecturer).

SPANS facility in Wollongong

A SPANS (SPatial ANalysis System) Training Course, organised by CSIRO Division of Wildlife and Ecology staff, Paul Walker and Chris Parvey, was held at the Department of Geography in March.

The object of the course was to introduce users to the concepts of geographic information systems (GIS) and provide SPANS instruction to a level which would enable users to develop spatial databases

and undertake a range of spatial modelling exercises.

SPANS is a geographic information system bought by the Department for teaching and research purposes. It integrates raster (satellite data, photographs etc), vector (roads, rivers etc) and point data (census data, soil data etc) along with attributes. It can be used for a wide range of applications including land use planning, resource mapping, soil and

1990 Jamieson Prize for Arts

THE COMMITTEE of the Australian Federation of University Women - NSW has awarded the 1990 Jamieson Prize for Arts to Wollongong University history student, Heather Spence.

The Jamieson Prize is awarded to outstanding women students from universities within New South Wales. The award is open to women completing Final or Honours years.

Heather has also been awarded a Postgraduate Research Award from the Australia Research Council to undertake the degree of Doctor of Philosophy. Her PhD thesis relates to Anglo-Tibetan Relations, circa 1903 to 1959.

English expert to boost cataract research

DR JULIA MARCANTONIO, from the Norwich Eye Group at the University of East Anglia, Norwich, England, is visiting the University. Dr Marcantonio is an expert on the so-called 'organ culture' of intact lenses. This is a technique in which intact animal lenses can be kept alive in the test tube after their removal from the eye.

This organ culture facility, which will enable the study of human lenses, is being established in Dr Roger Truscott's laboratory in the Department of Chemistry. Human lenses will be obtained through the NSW Eye Bank from donor eyes used for corneal grafting.

Dr Marcantonio has been brought to Australia by Dr Truscott as part of an Australia/UK co-operative research program funded by DITAC (Department of Industry, Technology and Commerce) in order to help supervise the establishment of the lens organ culture laboratory.

The establishment of this resource is particularly important for cataract research', Dr Truscott said, 'this will be the only one in Australia and the lens is ideally suited for this approach since, in the eye, it has no direct nerve or blood supply. It is one of the very few means we have for studying intact human organs'.

Although some animal models for cataract do exist, the Wollongong team believes that it is important to study human lenses.

Andrew Wood, a postgraduate student in Dr Truscott's laboratory, is being funded by Wellcome (Aust) Ltd to study aspects of human lens metabolism using the intact lens organ culture facility.

The lens normally acts to focus light on to the retina. A change in the shape of the lens allows us to alter our focus from near objects to those at a distance. In cataract the normally transparent lens becomes opaque (cloudy) light is thus impeded on its way to the retina and the image becomes blurred. In advanced cases the disruption of light caused by the cloudy lens can become so severe that the person becomes blind.

In fact cataract is the major cause of blindness in the world. It is estimated that 28 million of the total 40 million blind people in the world are blind as a result of cataract. Senile cataract associated with

old age is the most common; roughly 50 per cent of people over the age of 75 have cataracts.

At present, the cure for cataract involves surgical removal of the lens from the patient's eye. In recent years it has become common for plastic lenses to be implanted in the place of the diseased lens. Despite this being a relatively simple operation the costs to the Health care system are substantial, quite apart from the trauma associated with surgery especially for elderly patients.

Dr Truscott's team in the Chemistry Department are trying to discover the cause of senile cataract. This is the only research group in Australia devoted to

the study of the mechanism of human senile cataract. 'We treat cataract as being a potentially preventable disease', said Dr Truscott.

Currently there are a total of 12 post-graduate and post-doctoral researchers working on different aspects of cataract ranging from clinical investigations on cataract patients to detailed studies on the protein biochemistry and chemistry of the lens.

Dr Truscott's research team has attracted funds from a number of sources including the Government Employees Assistance to Medical Research Fund, Wellcome (Aust) Ltd, DITAC and NHMRC.

Plans are under way to establish an Australian Cataract Research Foundation at the University of Wollongong which will involve other researchers from Departments within the University and which will provide a focus for Australian research into this common human disease.

Service at the gallop

THE YEAR is galloping along for those working in the Careers and Appointments Service.

Patricia Webster, the Careers and Appointments Officer, spent the first six weeks of the year (January/February) in Dayton Ohio. During this time she visited/worked for two or three days each week in the Careers Placement Centre of the Wright State University. She met and talked with many people involved with careers work both in the University and the USA. She also visited Dayton University and the University of Hawaii.

Carmelle Scott was appointed in April as an Administrative Officer, full-time, to the Careers and Appointments office. Her employment extends the time and type of work she has been doing with the Service since soon after its establishment in September 1987.

Barbara Kane-Maguire was employed in March as a casual assistant for three to five hours a day to cope with the increasing general inquiries, the increasing supply of resources and to maintain the important distribution of information on the noticeboards.

Jim Rayment was employed in April for one day a week on a casual basis to assist students with the preliminary or-

ganisation of their résumés, job search and interview skills. This operates by both appointment and drop-in each Friday.

Employer Campus Interviews

The programs of visits from employers to interview students for jobs in 1991 are again being organised over six visiting weeks in 1990.

The first of the two-week periods for Accountancy students was held from April 30 to May 11; 115 Accountancy students took part in this program and 23 employers visited the University.

The second session of employer visits started yesterday and will continue until June 15; the employers for this period will include Government Departments and the second week will be a program for those recruiting graduates to be placed in computer-related positions; 185 students have registered for this program and 32 employers for 60 visits are expected.

The final program in September has 16 employers registered for attendance at this time with approximately 22 visits, but it is expected that this number will increase to approximately 20-22 employers with 28 visits.

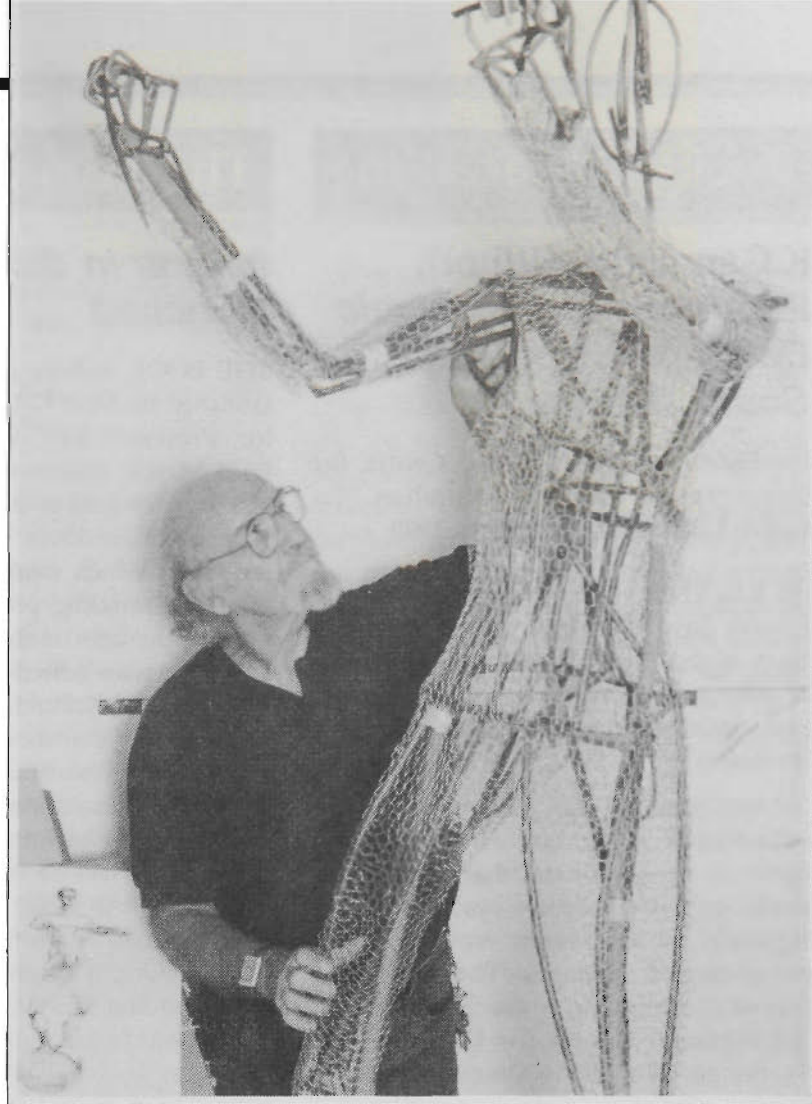
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Artist's residency ends

Clifford Frith, Artist in Residence in the School of Creative Arts until the completion of his residency at the end of last month, worked in the Sculpture Department. During his residency Clifford shaped a figurative sculptural piece which included the use of neon lighting and with the students enrolled in sculpture, helping them with their technical or artistic problems.

A major exhibition of his work has just been shown at the Irving Gallery in Sydney where his use of natural materials including slate, granite and stone was counterbalanced with neon lights. The piece of sculpture he is presently working on is a follow-on from this work. A major concern in his work is the idea of balance and juxtaposing relationships between light and heavy, where 'light' can refer to both meanings of the word. The present piece is also a reference to earlier work where the artist created kinetic figures out of neon. If successful, the sculptural piece which Clifford is creating will be exhibited at the Melbourne Art Fair on the Irving Sculpture stand.

Clifford is now living in South Australia where he has been a Senior Lecturer at the South Australian School of Art and the South Australian College of Advanced Education since 1972. His other academic appointments have included the Ahmadu Bello University, Nigeria, where he was The Head of Fine Art (1959 - 62), and Croydon College of Fine Art, England, as the Head of Fine Art (1962 - 72). Following this appointment he came to Australia to take up residency at Wollongong.



Clifford Frith with a sculptural exhibit created during his residency

Overseas Students Graduate Employment

Representatives of employers from Singapore wishing to recruit overseas students from Asia will attend a Careers Show in Sydney in August. Special efforts are being made to inform our students of this event. Contact is being maintained with the group in Singapore and information brochures and leaflets have been distributed. Further information is being received for overseas students from Hong Kong and Indonesia.

A video showing was arranged for overseas students to assist them in preparing résumés and further seminars will be conducted. Overseas students may also attend the workshops conducted for the Campus Interview Program.

National Association of Graduate Careers Advisers

The Annual conference of the National Association of Graduates Careers Advisers (NAGCA) will be held at the University of Wollongong in December. The Conference attracts graduate careers advisers and employer representatives from all over Australia. It also has international guests attending from Careers Services in the UK and the USA.

Patricia Webster, The University of Wollongong's Careers and Appointments Officer, is the Conference Convener and attracted the Conference to Wollongong in a time of competing interest.

Careers News

Environmental Scientists will be in demand in the next ten years in the USA. At least 18,000 positions will need to be filled. Universities and colleges are unlikely to meet this need in that time as only 138 students received undergraduate degrees in this field in 1989. The demand will be supplemented by civil, mechanical and chemical engineers.

Awareness of the 'sickness' in our environment and the need to prevent and clean up hazardous waste will place increased pressure on governments and private industry to employ graduates with environmental engineering and science degrees.

At present the demand is low in Australia – and the first job opportunities for students determined to pursue a career in this area of work may well be in overseas positions. This experience would be of significant value on return to Australia when our demand and awareness reaches a level which will adequately absorb our

graduates with studies in environmental science.

According to the Executive Director of the American Academy of Environmental Engineers, Mr Bill Anderson, 'This field has unlimited potential'.

New terms in/out of employment – American grown

Boomerang generation: Working-age children who live in their parents' homes.

Early-out programs: Incentives provided by employers to employees to retire earlier than normal retirement age, in return for better retirement pay/benefits.

Golden-collar workers: Employees whose special expertise is in short supply.

Right-sizing: Periodic review of resource deployment to ensure the most efficient use of those resources.

Sandwich generation: People who are raising children while caring for elderly or ill patients.

Skill-based pay/pay-for-knowledge: Compensation for developing specific skills or knowledge.

Work/family policy: Employer policy dealing with the issues arising from conflicts that employees experience in balancing demands of work and family.

Books and Reading

K. Gannicott (editor), *Education for Economic Development in the South Pacific*

Published by the National Centre for Development Studies, Australian National University, Canberra, 1990

IN RECENT years rates of economic growth have been low in the island nations of the South Pacific, and shortages of educated labour have been an important contributor to poor economic performance.

Ken Gannicott has just published an edited book of studies whose unifying theme is the investment that needs to be made in the education systems of the region if those systems are to remedy persistent skill shortages. The book forms part of a continuing research program at the National Centre for Development Studies to identify investment options in human resources development for aid donors in the South Pacific.

Specific problems differ among the countries. Polynesian countries, such as Western Samoa and Tonga which long ago achieved virtually one hundred per cent literacy, are in a different category from the Solomon Islands or Vanuatu which are still some way from the attainment of universal primary schooling. Fiji raises yet another set of issues, with its differential ethnic educational attainment and the special problems following the coups. Cutting across these specific differences are the educational policy issues common to all the small island countries: the generally high costs of education when population is scattered and schools are small; the perceived low quality of schooling in the region; the provision of post-secondary education in countries too small to sustain viable tertiary institutions; and the perennial question of academic or general schooling versus a vocational curriculum.

In the book Ken Gannicott has written an overview of these issues, as well as contributing specific country studies of Fiji, Western Samoa, Tonga, and the Solomon Islands. Fellow contributors have provided chapters on education in Vanuatu, and on the role that Australian aid can play in financing increased educational investment in the region.

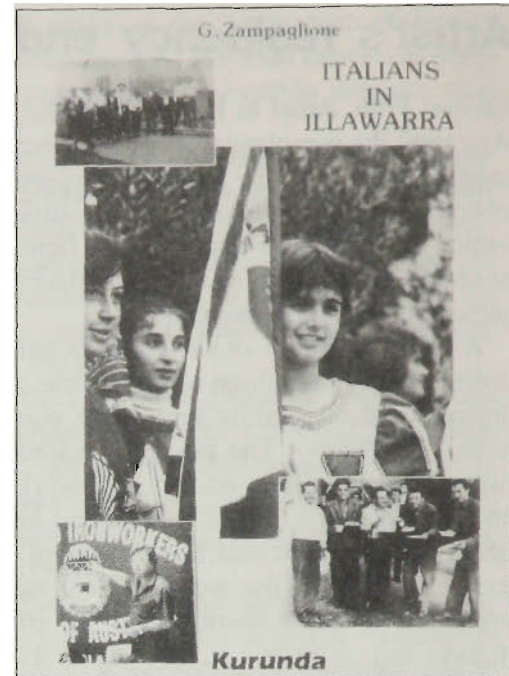
The Friends

Italians in the Illawarra launched

THE BOOK *Italians in the Illawarra* was launched on May 17 by the Vice-Chancellor, Professor Ken McKinnon, and the Lord Mayor, Alderman Frank Arkell MP, at a function held at the Fraternity Club in Fairy Meadow. Over 100 people attended the event which marked the completion of a long-standing project of the Friends. Other speakers included Dr Winifred Mitchell, who edited the book, and Mr Pino Bosi, of Kurunda Publications, who spoke of the enormous significance of a work of this historical nature in terms of recording information which would otherwise be lost to future generations.

The book will be reviewed in a future issue of *Campus News*. Mr Efreim and Mrs Giulia Bonacina, from the Italian Social Welfare Organisation, must be thanked for organising this event and for toiling so hard towards the publication of the work.

Italians in the Illawarra costs \$20 and copies may be obtained either through the Italian Social Welfare Organisation (21 Stewart Street, Wollongong) or through the Friends of the University.



Enquiries to Juliet Richardson, telephone 27 0249 or ext. 3249.

Friends' new Administrative Assistant

Karen Chisholm has been appointed Admin. Assistant in the Planning and Marketing Branch. Karen's role will be to support staff in the Marketing Section, including the Friends' organisation. On behalf of the Friends, a warm welcome is extended to Karen in her new position.

Conferences

Stress, nurses and nursing practice

THE ILLAWARRA Nurses' Research Interest Group which was formed in 1987 with the aim of fostering nursing research in the Illawarra and south coast area will hold its second research presentation on Thursday June 21 at 9 am. The hypothesis will be that stress is a contributing factor for nurses in their working environment, and the conference aim will be to provide an opportunity for nurses to share their clinical research projects and problems, ideas and experiences with their colleagues.

The morning conference session with the theme *Stress: wider perspectives* will have Ms Marjorie Cuthbert, Ms Laurel Harris, Mr Patrick Turbitt and Mr Bill Janes as speakers and will be chaired by Ms Jan Pincombe. In the afternoon, two panels will consider the theme *Personal reflections on stress* and the session will be chaired by Dr Sandra Speedy. Applications for membership will be available to delegates on conference day.

Registrations close June 15. Fee: \$25, includes food, refreshment, parking and conference papers. The conference will be held at the Department of Nursing, (building 38), the University of Wollongong. Further information and bookings (042) 27 0767.

Australian Institute of Management

Executive Communication, June 19
A one-day course to be held at the Oasis Conference Centre, 146 Windang Road, Primbee, for those who need to improve their interpersonal communication skills, with emphasis on making personal presentations, speaking to large groups and media liaison.

Information from AIM (042) 27 0075.

Illawarra Committee for Overseas Students

ICOS has organised two coach trips to the Snowy Mountains for overseas students in July. Details and tickets are available at ICOS office in the Union Building next to Careers and Appointment Service on Tuesday, Thursday and Friday from 9.30 am to 2 pm.

Conservatorium of Music

One-Day Vocal-choral Workshop for Primary-Secondary Teachers and Educators

JUDITH CLINGAN, AM, BA (ANU), Dip-MusEd (Kodaly Institute, Hungary)
Sunday, June 10, Auditorium, Gleniffer Brae, Murphys Avenue, Keiraville
Two Sessions: 9 am to 12.30 pm (lunch from 12.30 to 1.30 pm) and the afternoon session from 1.30 to 4 pm
Registration Fee: \$25

Judith Clingan is an Australian composer of choral and music theatre pieces, often for young people. She has also been involved in music education at all levels.

Miss Clingan has taught choral singing, sight reading through the Kodaly-based methodology (ie, moveable sol-fa). And she has taught early, mediaeval and renaissance music and composition.

Her own performance areas include voice, wind instruments and conducting.

Choral Society and Mozart's Requiem

THE ILLAWARRA Choral Society's performance of Mozart's *Requiem* in the Illawarra Performing Arts Centre on May 17 broke new ground.

Mozart wrote *Requiem* for orchestral accompaniment by 30 to 35 musicians, and even without access to that sort of orchestral force, a choir would generally perform the work to the accompaniment of a pipe organ in a church.

But the conductor (Robert Smith BMusEd, lecturer in Music Education in the Faculty of Education) put the musical accompaniment of this performance into the hands of internationally acclaimed keyboard artist Ray Thornley BSc from Melbourne and a Yamaha HX-1 Electone supplied by Jurjens Keyboards, Wollongong.

Ray Thornley has been recording for the past 15 years and has been a concert artist and demonstrator for Yamaha (Aust) for the past 12 years, performing regularly in Australia, New Zealand and Singapore. In that time he has watched the development of the Electone and the synthesis it gives. Today with digital synthesis and sampling these multi-level multi-timbral synthesisers (we used to call them electronic organs) can nearly approximate the sounds of a full orchestra.

At present Miss Clingan is Artistic Director of *Gaudeamus*, a community-based music organisation in Canberra offering regular weekly tuition to people of all ages. The organisation also mounts productions of choral and music theatre works.

This year Miss Clingan is Composer-in-Residence in Canberra.

Workshop Outline

Session 1: Content and methodology suitable for teachers of music in Primary Schools (a) Technique – voice as an instrument how to use one's voice (b) Sight singing – how to help people sing from notation and (c) Repertoire.

Session 2: Content and methodology suitable for Secondary Schools, community situations such as Church choirs and amateur adult situations, (a) Technique; (b) Sight singing and (c) Repertoire.

Enquiries and application forms for this workshop may be obtained by phoning the Secretary, Conservatorium of Music, (042) 28 1122 or (042) 27 0533.

As well as accompanying the choir in its 55 minute performance of *Requiem*, Mr Thornley performed three solo pieces on the Electone.

In addition, first year BEd (Primary) student Karen Weir, presented a Bach Prelude and Fugue, Beethoven Sonata and Chopin Valse Brillante on piano.

Featured soloists in the *Requiem* were Patricia Worley-Smith (BCA graduate) Barbara Rixon (AssDipCA graduate) Rod Lander and Roy Jackson (singing tutor with Wollongong Conservatorium and University of NSW St George Campus).

The choir numbering about 45 sang *Requiem* in its original Latin.

Research Funds

Nuffield Foundation Fellowship Awards 1991

Four fellowships for three months stay in the United Kingdom for participation in teaching and demonstrating in the Commonwealth Institute's Education Program.

The University closing date is August 31.

Arthritis Foundation of Australia

Applications for all the Foundation's research awards are being called for. This includes all Fellowships, Scholarships and other forms of grants funded by various bequests to the Foundation.

The University closing date is July 20.

What's on

The City of Wollongong Symphony Orchestra will present its second 1990 subscription concert at the IMB Theatre, Illawarra Performing Arts Centre on Saturday June 16. The concert's guest artist will be the English flautist Sally Stocks who will play two concertos with the orchestra, the G-major Op.29 by the eighteenth century composer Carl Stamitz, and the short Concerto for flute and strings Op.45 by the contemporary Englishman, Malcolm Arnold. The latter is best known for his film scores to 'Inn of the Sixth Happiness', 'Bridge on the River Kwai' and others and for his writing in an accessible, melodious style.

Other pieces on the program are the 'Philosopher' Symphony by Haydn, so-called because of its repetitious horn-figure in the first movement, and a charming *Divertimento* in D, K251 by Mozart.

Sally Stocks is now resident again in the United Kingdom after spending some years teaching in Australia, most recently at the Newcastle Conservatorium of Music. She continues to pursue a concert career world-wide.

Tickets for the concert are available from the Performing Arts Centre booking office. Prices are: Adults \$16, Concession \$12, Family (up to four) \$44.

Enquiries should be directed to the Booking Office Tel. (042) 26 3366.

Women's Issues Group

THE FIRST MEETING of WIG was held on Tuesday May 22 in the Kemira Room and it was an unqualified success.

Ms Rebecca Albury gave an informative talk and slide show on ways in which the media manipulate our thinking on the emotive subject of IVF and frozen embryos, a topic of importance to us all. This was followed by a talk by Ms Sue Uniacke, in which she eloquently laid before us many thought-provoking facts on the moral issues of IVF and embryo experimentation. After a short break Ms Tristan Hunnington treated us to a scarf-tying demonstration which was fun, and Kay McKinnon won the raffle prize of a scarf. We were fortunate to have such interesting and stimulating speakers to start what is hoped to be the first of many such evenings.

The next meeting is scheduled for Tuesday June 26 at 7.30 pm. Details will be published in *Campus News*. For further information contact Moira Bowman on 84 3741.

Seminars

Land transport – an urgent discussion

Wollongong academic to speak

A seminar to discuss the urgent need for a coherent land transport policy in New South Wales will be held at Sydney University on June 18 and 19.

The organisers have brought together senior ministerial, professional and community speakers to present papers on crucial rail, road and waterfront transport issues. Dr Philip Laird, Senior Lecturer, Department of Mathematics at the University of Wollongong, will address the seminar on *Railways in Australia: unfulfilled federalism*.

It is increasingly obvious that only a co-ordinated approach will deliver a more efficient, safer land transport system. This two-day, bipartisan seminar will provide a point from which government, industry and the community may develop a co-ordinated strategy.

Department of Biology

Seminars are held from 12.30 to 1.30 pm in Building 35, Lecture Theatre G19, on Tuesdays.

June 5: Professor B. McNab, Department of Zoology, University of Florida, Gainesville, USA, *Animal Physiology*

Department of Chemistry

Seminars, except where indicated, are held on Fridays in room 18/206 at 11.30 am.

June 8: Dr Peter Lay, School of Chemistry, University of Sydney, *The chemistry, biochemistry and toxicology of Cr(V) and Cr(VI)*

Education Policy Program

Seminars are held in the School of Policy and Technology Lab (21.101).

Friday June 8 at 12.30 pm: Professor Russell Linke, *Performance indicators in higher education*

Enquiries to Ian Brown – Co-ordinator, ext. 3590.

Equity in Education program

Meetings will be held in room 12.104 at 4.30 pm.

The Equity in Education Program is holding a regular set of meetings which will include reports from research projects. These reports will focus on the research process (specific problems, research design and so on) and aim to provide a forum for sharing research experiences and exchanging ideas. They will not be

formal presentations – the emphasis will be on interaction and discussion with colleagues. Researchers outside the program are invited to attend to foster interdisciplinary research and scholarship as well as to facilitate information exchange. The regular Equity in Education Program meeting is scheduled for 4 pm on each of these days and members/associate members are asked to be in attendance at this time.

Friday June 1: Russell Linke, *SES and HSC levels*

Department of History and Politics

Seminars are held on Wednesdays at 5.30 pm in room 19.2043

June 6: J. Hagan and K. Turner, *Trade Unions and the Labor Party in NSW 1911-1941*

School of Learning Studies

Gender and Education Unit

Seminars are held in Building 21, room 104 at 4.15 pm on Fridays (unless otherwise indicated)

June 15*, B. Pamphilon, Lecturer, Canberra CAE, MEd Hons student, SLS, *200 years of schooling for adult women: a work in progress report*

* Seminar offered jointly by the Gender and Education Unit and the NSW Branch of the Australian and New Zealand History of Education Society.

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

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 Room 1.134 (unless otherwise specified).

June 5: Dr R. Hutchings (ANSTO), *Ion implantation*

Enquiries to Associate Professor D. Dunne 27 0014.

Centre for Multicultural Studies

Friday June 8, 2 to 3.30 pm in Building 19, room 2102: Professor Masami Sekine, Department of Political Science, Keio University, Tokyo, currently Special Adviser Embassy of Japan, Canberra, *Foreign workers in Japan – an end to ethnic homogeneity?* Further details from the Centre for Multicultural Studies (042) 27 0780.

Department of Physics

Thursday June 7, 12.30 pm in Physics Lecture Theatre (18.118): Dr S.B. Poole, Technical Director, Optical Fibre Technology Centre, University of Sydney, *Rare-earth doped fibre lasers*

Department of Public Health and Nutrition

Seminars are held in 5.G03 between 12.30 and 1.30 pm on the dates given. Anyone who is interested is cordially invited.

Tuesday June 5: Mr Eric Meadows *The international market*

Enquiries to Ms Linda Tapsell, Lecturer, Department of Public Health and Nutrition (042)27 0152 or ext. 3152.

Social and Psychological Health Research Program

All seminars are held on Tuesdays in room 19/1056 from 12.30 to 1.30 pm.

June 12: Dennis Calvert, *Public health in the Illawarra*

Subjects needed

for a MSc (Hons) thesis on
the structure and function of abdominal muscles during pregnancy

Ideally, the subject would be pregnant with her first baby and less than 20 weeks gestation. Please contact Wendy Gilleard on ext. 3881, Human Movement Science.

Advertisements

SALE BY TENDER

The University has several items of obsolete equipment available for sale by tender. All are offered in an 'as is' condition. No guarantee is offered on any item. Terms of sale are cash or bank cheque. For information contact Peter Costigan on 042/270418.

Item	Quantity
IIT Teletype	2
BWD 539A Oscilloscopes – long persistence screen	8
Tektronix CRO – 564 (storage)	1
Tektronix CRO – 564B (storage)	1
Tektronix CRO – 561B	1
Tektronix CRO – 565 (dual beam)	1
Plug-in amplifiers and time bases to suit above	various
H.P. 85 computer system	1
AIM 65 computers with cassette recorder	12
Apple IIe computer	1
B150 terminals	9
Nova 1200 Computer system and spares	1 lot
Micro Nova Computer System	1 lot
Zeta series 100 Plotter	1
I.B.M. Golfball Typewriter – older style	1

Tenders close 11.30 am on June 11. Tenders should be placed in a sealed envelope addressed to Office Services, The University of Wollongong, PO Box 1144, Wollongong 2500 and noted on the outside front 'Tender for Electrical Equipment'.

FREE FIREWOOD

To warm your home in winter. Enquiries to Printery, ext. 3974 or 3096.

FOR SALE

Range hood 'Robinhood 900', large, double size in excellent condition. \$80; and G.E.C. bench top oven with rotisserie, stove and grill. Clean and in excellent condition. \$160. Tel 71 2310 or apply 18 Williamson Street, Berkeley.

FOR SALE

Northern Suburbs on tidal lagoon. Modern two-bedroom townhouse in block of three facing reserve area and bicycle track. Professionally decorated. Reduced to \$105,000 for quick sale. Call Peg MacLeod on ext 3917 or 84 7095.