Excellent Teachers
Alumni Successes, News and Reunions
Research into Dyslexia, Flooding and Quolls
Making Waves in Asia

Autumn/Winter 1992
ALUMNI ASSOCIATION TO BE LAUNCHED

A review from the Alumni Officer

ALL UNIVERSITY of Wollongong alumni are warmly invited to attend the official launching of the Alumni Association on Wednesday 24 June. The venue is the Council Room in the University’s Administration Building and the meeting will begin at 5.30pm. Light refreshments will be served after the formal proceedings.

The Vice-Chancellor hopes to attend the inaugural meeting and the Pro Vice-Chancellor, Professor Lauchlan Chipman, has agreed to chair the proceedings. We hope that many Outlook readers, especially graduates and former staff, will be able to join us. Members of the Graduates Group within the Friends of the University will also be especially welcome.

The main purpose of the Association’s inaugural meeting is to submit the constitution, which has already been approved in principle by the University Council to you, the alumni, for ratification.

Inaugural meeting

You will see that the constitution automatically allows all alumni (as defined in paragraph 3.1) to be members of the Association. There is also a Financial Membership category which entitles alumni to voting rights within the Association. In addition it is proposed that Financial Members will be entitled to receive any benefits and discounts negotiated on their behalf.

This process has already begun with the University Union Bookshop offering a discount of 15 per cent to Financial Members of the Association. The Alumni Office is negotiating a number of other benefits for alumni and would be interested to receive any suggestions. A full list of the benefits which have been negotiated will be available on 24 June.

The subscription rates for Financial Membership will be set by the Board of Management, which will be elected at the inaugural meeting.

So the opportunity of real involvement with the University and with your fellow alumni is open to you. Please come along on 24 June and have your say. There will be no postal ballot and no proxy voting, so it is important that you attend.

If you are unable to attend, but are interested in becoming involved, please let me know.

Other news from the Alumni Office

As part of a reallocation of senior executive responsibilities in the University, the Alumni Officer now reports directly to the Pro Vice-Chancellor. This brings the Alumni Office in line with the Friends of the University and the Foundation whose Executive Officers also report to Professor Lauchlan Chipman.

The purpose of this new grouping is to create an effective team to strengthen the University’s capacity to attract community goodwill and support from alumni, other individuals and the corporate sector. A location on campus for this new team is currently being investigated. It is therefore highly appropriate that the Pro Vice-Chancellor will, ex-officio, be a member of the Board of Management of the Alumni Association.

Two chapters of the Alumni Association have been established this year. The International House Alumni Association was formed in January at a weekend reunion and the Engineering Alumni Association is progressing well thanks to the efforts of a willing group of alumni and staff from the Faculty (see reports on page 11).

Finally, a word of thanks to all of you who responded to our call for help in locating ‘lost’ alumni in the previous issue of Outlook. With your help nearly 500 alumni have been reinstated on the database and the occasional letter or fax still comes in. Do remember to let us know whenever you change your address...

I look forward to seeing many of you on 24 June. Please contact me should you want to discuss any aspect of the alumni operation.

Juliet Richardson
Tel. (042) 21 3249; Fax (042) 21 3128
New Dean of Students
Josie Castle – first woman in this important leadership role

Making Waves in Asia
Stephen Hill and the Centre for Research Policy active in developing science and technology in the region

Monitoring the Tiger Quoll
Debbie Andrew researches an elusive marsupial in the Illawarra and other parts of NSW

Excellence in Teaching Awards
Graduate Profiles
Alumni Reunions
University Team’s Success in Law Competition
Visual Difficulties and Developmental Dyslexia
Computer Software Fighting the Flood
A Campus for the Future

Remember to complete the alumni response form on page 10

Front cover: Rob Spence at the Rocks in Sydney; see page 6
VICE-CHANCELLOR'S AWARDS FOR EXCELLENCE IN TEACHING

THE AWARD scheme to encourage and reward outstanding performance in teaching by academic staff of the University was introduced in 1991. Up to four awards each valued at $2,000 may be made in any one year. For this year's awards, there were 13 nominations representing all faculties. Award winners (in alphabetical order) are Dr Michael Boyd, Mr John Scott, Ms Roslyn Westbrook, and Associate Professor Bob Wheway.

Dr Michael Boyd, Senior Lecturer, Department of Civil and Mining Engineering, Faculty of Engineering

MICHAEL BOYD joined the staff of the then Wollongong University College in the last year before the establishment of the autonomous University of Wollongong. In his 18 years of continuous service he has been instrumental in the development, virtually single-handed, of nearly all the hydraulics subjects offered by the Department. He has also been at the forefront of the imaginative introduction of computer-assisted learning into Civil and Mining Engineering subjects. His contributions in this area are now acknowledged internationally as well as throughout Australia.

Dr Boyd's personal teaching philosophy is to provide each student with a sound knowledge of the relevant parts of basic engineering sciences, together with a rich variety of practical examples and exercises which will develop the student as a skilled professional. He believes he has an obligation to treat every student with respect, and this is reflected in the excellent rapport he enjoys with them, and the fact that alumni of many years' professional standing still return to seek his advice on professional matters.

Mr John Scott, Lecturer in Writing, School of Creative Arts, Faculty of Arts

JOHN SCOTT has been with the University for just under three years, during which brief period he has achieved a remarkable reputation for his capacity to engage students. His lectures are renowned not only for the wide-ranging knowledge of contemporary writing Mr Scott displays, but for their energy, passion, and wit – qualities which lead his students to describe his lectures as inspiring.

Mr Scott describes his personal teaching philosophy as one which begins by discovering the individual student's strengths in personal writing, and assisting to build on those strengths.

His long-term goal is to maximise the potential within all students. This involves subjecting them to honest criticism when appropriate, and ensuring that each one is introduced to an individually tailored reading program, exposing them to the full range of available writing in their genre.

Mr Scott regards every class as a learning experience for all participants. After each, he asks not only how much the students have learned, but also how much he has learned from that class.

Ms Roslyn Westbrook, Lecturer in Physical and Health Education, Faculty of Education

ROSLYN WESTBROOK has been with the University of Wollongong for just over ten years, having joined during a period of leave without pay from the NSW Education Department. She has been described by her colleagues as a perfect role model for the future primary and secondary school teachers in Physical and Health Education who make up the bulk of her classes – enthusiastic, stimulating, adaptable, and always open to new ideas.

Ms Westbrook's dedication is shown in her willingness to provide students with as much individual assistance and extension work as they need. She sees her role as assisting in the development of all students, whatever their ability, to the full extent of their capacity. She does not regard this as doing extra but as an integral part of her professional involvement.

Ms Westbrook's philosophy of teaching is that students learn most effectively when they participate actively in the design and development of their own learning processes. She sees the development of future teachers as not merely giving them knowledge, but assisting in forming their attitudes and values in ways that build on the experience of the individual.
A NEW DEAN OF STUDENTS

Challenging role for Josie Castle, former senior lecturer and author of the History of the University

The new Dean of Students is Josie Castle, formerly Senior Lecturer in the Department of History and Politics. She succeeds Professor Murray Wilson, the founding Dean, who was appointed in 1986. Josie Castle arrived in Wollongong in 1969 in time to participate in the campaign for autonomy from the University of New South Wales and at a time when there were no student support services apart from those provided informally by staff. The University College as it then was had only 1000 students and ties were close between students and staff as they worked together to build a new University.

Josie Castle teaches social history with a strong emphasis on workers, especially nurses and female factory employees, and she has published both in Australia and overseas on the development of tertiary education. She recently completed a history of this University written in the context of developments in Australian government policy on tertiary education since 1945. The work contains a large section on students, traditionally neglected in accounts of other universities, although logically they should be the focus of any history. Writing this history grew out of a long-standing research interest in tertiary education.

Sub-Dean of Arts since the job was formally created in 1987, Ms Castle's involvement in this role began some years earlier. She will be well known to many arts students who have sought her academic advice and counsel over the years. She brings to the role of Dean long experience of student problems, both academic and social, and a long involvement in University affairs at several levels.

A major part of the role of the Dean of Students is to mediate between students and staff over perceived unfairness in academic and other matters. The Dean must provide leadership on the direction of the undergraduate curriculum, and on teaching and assessment – matters that receive increasing and controversial scrutiny from Canberra. For this reason the Dean of Students is Chair of the Undergraduate Studies Committee.

Associate Professor Bob Wheway, Department of Mechanical Engineering, Faculty of Engineering

BOB WHEWAY has been a member of the academic staff, originally of the Wollongong University College, since 1967. He has taken a leading role in the development of the curriculum for the degree in Mechanical Engineering. More recently he has developed a series of new subjects in Environmental Engineering and Design. To stimulate the interests of students he introduced, and continues to organise, the Department of Mechanical Engineering's First Year Creative Design Competition.

Associate Professor Wheway is recognised by his students, present and past, many now eminent in engineering, as a teacher who goes out of his way to provide all the help necessary to each student. Those on the point of achieving an honours degree and those whose degree is at risk are given equal time and equal care. He is a consistent innovator in instructional design, his aim being to stimulate even the least-motivated students, while providing opportunities for the keenest to extend themselves. He has pioneered the use of case-study techniques in experimental and environment-related subjects.

Bob Wheway shares as widely as possible his own ideas and experiences as an effective teacher. He has also contributed over 20 publications to the literature on university teaching. In the words of one of his senior colleagues, 'I am proud to call myself a colleague of Bob Wheway – he is an example to us all'.

Vice-Chancellor's Awards for Outstanding Service

AN AWARD scheme for general staff has been introduced this year. The Vice-Chancellor's Awards for Outstanding Service are intended to encourage outstanding or exceptional contributions to the operation of the University. Up to six awards, each valued at $1000, will be available each year with nominations coming from the campus community.

Like the Excellence in Teaching awards, these for outstanding service will be presented on University Day. There is to be one Outstanding Service award in 1992 and, as we close for press, the recipient has yet to be announced. A report will appear in the next issue of Outlook.
DESCRIBING himself as 'a reckless, destructive kid - the kind that was into everything', Rob Spence began his adventurous career as a child making other people laugh. A juggler, dancer, acrobat, mime artist, singer and musician - and a Wollongong graduate with a degree in Creative Arts - Rob is now successfully taking his unique blend of Australian comedy around the world.

At 16 Rob gave up the prospect of working on his father's sheep farm to train as a dancer. But his talent for comedy was discovered and he was asked to '...put on silly clothes and become a silent comedian for Australia's Wonderland'. The following year he was accepted into the Bachelor of Creative Arts degree, and studied acting, mime, directing and French.

While at university Rob developed his one-man show - a combination of mime, comedy sketches, juggling, acrobatics and more - and found time to tour comedy and performance festivals both in Australia and overseas. His one-man show was an instant success, and he twice won the Sydney Street Performers Festival.

After completing his BCA in 1989 Rob, by way of performing at Australia's Wonderland, the Whitsundays and on an Italian cruise ship, found himself in Switzerland. He missed his graduation ceremony, because, he says, he was 'Performing a sketch on a piazza somewhere in Europe. I was out to conquer the world with three juggling balls and a tube of white paint for my face.'

But foreign audiences proved difficult. Based in Switzerland, Rob found European attitudes 'confusing and demeaning', and because of language barriers, he was unable to work as an actor or tour his one-man shows. His only income was from his street performances; his often illegal choice of a stage, however, led to several unplanned visits to local police stations.

Moving to England and a more familiar culture, Rob immediately found work in comedy clubs, festivals and music halls. But, depressed by the English cities and weather, and missing Switzerland and his Swiss fiancée, he returned to his base determined to learn languages and culture. Six weeks later, 'still depressed', on a whim Rob sent a video of his work to a well-known talent scout. 'Suspense', featuring among its 12 sketches Rob as a car-fighting matador on a freeway, proved to be his ticket into the world-wide comedy and festival circuit.

Work followed in festivals, theatres and on television in Holland, Italy, France and Switzerland; Rob's one-man event featured at the world's biggest comedy gathering, Just for Laughs, in Montreal, and at the MTV mega-gala in America, where he shared the stage with world-renowned comedians.

Still based in Switzerland, Rob is thinking of returning to Australia. 'My wife and I both miss Oz, and the main bulk of the work here happens in the nine months when the temperature is below zero.' His busker's lifestyle leaves the opportunities open. 'Expectations complicate life. I live from day to day, give as much to each living minute, day and performance as I can. Fame and fortune aren't lying ahead, but life is one bag of surprises after another.'
DESPITE an injury early during a 10,000 mile (16,000 km) bike marathon through 15 countries, Anthony Iskra was determined to make the distance. Eleven months later and $15,000 poorer, Anthony completed his London to Sydney marathon for a cause he is dedicated to — research into AIDS.

Anthony graduated from the University in 1989 with a Bachelor of Education (Physical and Health Education), and the following year began teaching in London. He also worked as a fitness instructor for a London health club, and in 1990 formed his own corporation, ISFIT, which organises fitness coaching services.

Anthony first became interested in issues surrounding AIDS through his studies in health, becoming concerned by the lack of awareness about the disease and the need for further research. The idea of a solo bicycle marathon appealed as a way of raising awareness world-wide. 'I thought I could do it, it was unusual, and I would be able to raise money for organisations that were conducting research into AIDS."

The marathon also enabled him to contact AIDS research centres in countries he visited, gathering information he plans to use as a basis for research in the masters degree in public health which he is currently undertaking at the University.

Staying in hostels and sometimes pushed to find a meal, apart from regular checkpoints, Anthony travelled the marathon alone. The publicity for his ride did not always reach a country before he did; he could not get permission to ride through Burma as planned, and travelling through isolated regions of the Middle East he was 'like an alien', and more than once chased by frightened tribes or farmers.

As well as hoping to spread information about the disease, throughout the marathon Anthony was able to study attitudes to AIDS and AIDS prevention in different cultures and countries. He found 'no right approach, no rights and wrongs'. From conservatism in Britain, to the Zurich Needlepark in Switzerland (an IV needle exchange centre in a city park) to Iran, where they denied AIDS existed in the country until 1990. Making a video documentary of his travels, Anthony tried to expose the cultural problems associated with the disease. 'AIDS is becoming a disease of poverty, and a disease of poverty of knowledge and knowledge services. The issues infiltrate all social institutions.' He believes that education about the disease, research and prevention are the most important issues facing world health authorities today.

Although the ride was completed in February this year, Anthony is still busy with the paperwork. Pledges made around the world are being collected, and there is a possibility that he will write a book, based on his video footage and daily travel diary.

He sees the marathon as a personal achievement, but is something he would not like to do again. 'The physical hardship — crossing the desert in Iran, living on only a pocketful of money. It was interesting — and I'm glad it's over.'

Anthony would like to thank all those from the University of Wollongong who have supported him and his cause. To make a donation please send a cheque or postal money order to ISFIT Ltd, c/- 29 Grandview Pde, Lake Heights, NSW 2502.
KEITH JOHNS
BA (Hons) 1981, PhD 1987

KEITH Johns (PhD, MLitt, BA Hons, GradDipEd, FLCM, FTCL, LTCL) has obtained both his bachelor and doctoral degrees from the University of Wollongong and is currently on the piano staff of the Wollongong Conservatorium of Music. He also lectures in music at the Australian Catholic University in Sydney.

In 1991 Keith gave several recitals in Europe including the Franz Liszt Museum in Budapest, Friedrich-Schiller University in Jena, Bösendorfer-Saal in Vienna, Pragokoncert (the government concert agency in Prague), Hull University, Sussex University and the State Conservatorium of Music of Corinthia. He spent ten days as Guest-Professor at Moscow Conservatorium where he also gave lectures. Reviews were very supportive with the Wiener Zeitung, one of Vienna’s main newspapers, saying that his playing ‘...is virtuous, powerful, and enhanced by his sovereign personality’.

In 1992 Keith is on leave from his duties at Wollongong Conservatorium in order to take up a second fellowship from the Austrian Government and position as Guest-Professor in the Music Department of Vienna University. He has received invitations to give recitals and lectures during this time for Warsaw University, Trinity College Dublin, Cork University, Cork Orchestral Society, Augsburg University, Amsterdam University, Pragokoncert and the Sibelius Institute and University in Helsinki. He has also been invited, for the third consecutive time, to deliver a paper at the Symposium of the International Musicological Society, to be held in 1992 in Madrid.

Carrie Louise Sonneborn
MMgt 1986, BA 1990

IN 1983 Carrie Louise Sonneborn arrived in Wollongong, a US exchange student from the Trenton State College in New Jersey. She decided to stay, and so began an eight-year association with the University.

Carrie originally came to Wollongong to study towards her bachelor degree in mechanical engineering. She subsequently completed two degrees at the University of Wollongong: a Master of Management in 1986, followed by a BA majoring in psychology in 1990. In September of the same year she was offered a position with the Australian Conservation Foundation, and moved to Canberra to work with the Global Change Program. This program organises national campaigning on issues concerning ozone depletion and global warming, and Carrie’s diverse background has enabled her to be a part of many facets of the program, dealing in managerial, technological and social issues with industry and government groups.

Carrie believes that the opportunities she received in Australia, and particularly at the University, have been invaluable for her, her time in Wollongong shaping the future directions of her career. In addition to her degrees, Carrie plays the flute and writes and performs poetry, with many of her works being published in Australia and overseas. Her interest in conservation extends to a love of bushwalking, with her most recent experience being a two-month trek through the Everest region of Nepal.
1977

Greg Newton
BSc (Eng)

MORE than 15 years ago Greg studied civil engineering at Wollongong University through BHP’s cadetship program. As an undergraduate engineer in the Slab and Plate Products Division he was responsible for contract documentation and site supervision of various multi-discipline engineering projects. Greg is still employed by BHP today, having spent several years with the Engineering Division and then with BHP Engineering International.

His experience is wide, ranging from project and construction management of a railway line and coal mine in Queensland and an accommodation complex, generating plant and manganese treatment plant in the Northern Territory, to project and construction management of a coal stockpiling and loading system in Newcastle and an access road, exploration camp and drilling platforms for an oil exploration program in Papua New Guinea.

In the mid 1980s Greg worked with the State Rail Authority in the major electrification program for the Illawarra Railway Line. Following this he was involved in the development of the Slab Caster at Port Kembla and in 1987 he joined BHP Engineering International. He is now Business Development Manager responsible for all aspects of multi-discipline mineral resource and steel industry projects for Africa, Mexico and Central and South America. Before this he had similar responsibilities for India, Pakistan, Bangladesh, Nepal, Sri Lanka and Mexico.

Greg is also responsible for BHP Engineering involvement in bid submission to the Australian International Development Aid Bureau and World Bank for projects including mine restructuring and development, steelplant operations, environmental management and industrial training programs in developing economies.

Although Greg’s current position is based in the North Sydney office, he still lives in Wollongong and commutes by car.

In 1989 Leanne married Damien Clarke, also a graduate of Wollongong University, and they now have a daughter, Emma, born late last year.

1984

Leanne Clarke
DipTeach - Primary

WHEN she graduated in 1984 with a Diploma in Teaching, Leanne Clarke (née Perry) found there were no jobs in teaching immediately available in New South Wales. But there were in the Northern Territory, so Leanne moved to Darwin, to a position as primary school teacher. Over the nine years since then she has taught in a number of primary schools throughout Darwin, specialising in Early Childhood Education.

Leanne completed a Bachelor of Education through Northern Territory University in 1986, studying the influence of home life on learning skills of young children at school. In 1989 she was awarded the classification of ‘Teacher of Excellence’ by her peers, an incentive for teachers who show special proficiency in the classroom.

Her interest in the external problems faced by students has been further pursued through a Bachelor of Arts degree with Deakin University, in which she studied the social and cultural problems faced by Aboriginal children in modern society. Throughout her teaching career she has been continually involved in assisting her peers through promotional panels, acting as a model for teaching students, and working with urban Aboriginal children and children with special needs.

1978

Martin Benson
ME (Hons)

MARTIN Benson left Wollongong in 1978, planning to spend eighteen months assisting in curriculum development for the Mechanical Engineering Department at Lae Technical College in Papua New Guinea. Now Senior Lecturer at the Papua New Guinea University of Technology, Martin has made Papua New Guinea home.

After working on the curriculum, Martin was asked to lecture at the College, and
Graduates' Grapevine Profiles

this was followed by additional part-time lecturing at the nearby University of Technology. In 1984, when he and his wife again thought of returning to Australia, the then Head of the Mechanical Engineering Department at the University of Technology urged him to join his staff. It proved an offer too good to refuse, and Martin and his wife decided to stay for another few years.

In addition to his current position at the University, Martin is still involved with the Technical College, as Chairman of the Mechanical Engineering Board of Studies which is currently looking at upgrading and extending the course. The aim is to allow students who have not matriculated from a national high school to enter the University directly from the College. Martin is also completing his PhD in combustion research.

Martin plans to return to Australia soon. He and his wife will certainly be returning to Brisbane in mid-1992 for their eldest son's wedding. They have two sons, both of whom are studying at different universities in Brisbane.

Muhammad Akhyar Adnan
MBA 1991

Yat Chun Yau
BE 1986

YAT CHUN graduated over five years ago and since then he has been employed in Hong Kong as a quality control engineer, working in the maintenance division of Shui On Building Contractors Ltd. His job deals mainly with the quality control of materials and workmanship. Yat Chun says he has been married for three years and has a two-year old son. He and his family live in a flat in the Shatin area of Hong Kong.

Rod Milgate
PhD 1989

ROD obtained his PhD through the School of Creative Arts at Wollongong University and is currently Associate Professor and Head of the School of Studio Arts at the University of New South Wales College of Fine Arts. In 1991 he had a solo exhibition entitled Fourteen Stations of the Cross which consisted of 17 paintings and a published book of poetry on the same theme, recorded by Ron Haddrick and Dinah Shearing. The exhibition was held at the David Jones Art Gallery in Sydney and will tour selected regional centres in NSW during 1992.

Muhammad completed his MBA last year and returned to Indonesia where he taught for one semester in the Faculty of Economics at the Universitas Islam Indonesia at Yogyakarta. He says he was fortunate to find a new sponsor to support his PhD studies and he is now back in Wollongong doing a doctorate with the Department of Accountancy.

ALUMNI RESPONSE FORM

Tell us where you are, what you're doing... and please send a picture – black and white if possible and with good contrast.

Name (please print) ____________________________________________________________

Address ______________________________________________________________________

Postal code __________ Country __________________________________________________

Home phone __________ Work phone ______________________________________________

Degree(s) held ________________________________________________________________

Year(s) of Graduation __________________________________________________________

Notes and news __________________________________________________________________

(Please use extra paper)

I am happy for you to publish these details.

Please send to: Juliet Richardson, Alumni Officer University of Wollongong, Locked Bag 8844, South Coast Mail Centre, NSW 2521, Australia.

Signature __________________________ Date __________________

Juliet Richardson, Alumni Officer University of Wollongong, Locked Bag 8844, South Coast Mail Centre, NSW 2521, Australia.
Alumni Reunite

At the reunion, from left: Suzie Woods (88-89), Doug Lyme (88-89), Catherine Tirth (88-89), Jenny Roach (88-89), Keltini Liddiard (88-89), Stephanie Delaney, Joanne Delaney (85), Simone Knoll, Nick Wenban (87-90) and Brett Ludewig (87-89)

25 years on
FIRST INTERNATIONAL HOUSE REUNION

AFTER 25 years of operation, initially as a YMCA and then as the University's first hall of residence, International House held its first reunion weekend from January 17 to 19. Some 120 former residents attended. Formal activities were kept to a minimum to allow plenty of time for catching up with old friends. The International House Alumni Association was inaugurated on the Saturday at a meeting chaired by Pro Vice-Chancellor, Professor Lauchlan Chipman, and attended by the Chancellor, the Hon Dr R M Hope, and Deputy Vice-Chancellor, Professor Gerard Sutton.

Alumni Officer Juliet Richardson congratulated the group on being the Alumni Association's first formally constituted chapter. Elections were held and ten office bearers elected.

The meeting was followed by a dinner with entertainment by Don Harper's Jazz Band. Among those present were Cynthia Halloran, Head of International House, who organised the reunion, and former manager, Liz Hilton. Greetings from Hong Kong were sent by former warden, Professor Tony Ng. The International House Management Committee was represented by Professor Chris Cook. Other staff members present were Sandra Comerford, Vic and Joanna Cauduro, Jeanette Faulds and Joyce Lewis.

The reunion was so successful that another one is planned for early 1994.

ENGINEERS' ALUMNI GROUP GATHERS

PACE

THE FIRST reunion of alumni from the Faculty of Engineering was held in the Union Bistro last November. Hosted jointly by the Faculty of Engineering and the Alumni Office, the evening was enjoyed by over 70 graduates and their partners and several members of faculty staff. Since then a group of alumni interested in developing an Engineering Chapter of the Alumni Association has been meeting regularly. The next social event will be held on Friday June 19 in the Wollongong City Art Gallery. All engineering alumni are invited to attend the function, which will consist of dinner (at which the Faculty of Engineering Alumni Association will be inaugurated) followed by a tour of the Gallery with its Director, Mr Peter O'Neill.

The cost for the dinner and social evening will be $20 a head. A special rate of $10 for membership of the Engineering Alumni Association will also apply for those who join that evening.

At the reunion, from left, the Vice-Chancellor, Professor Ken McKinnon, Trent She (ME Hons), Emily Loe and Steve Pang (BE, Civil)
Senior Academic Appointments

The NEW PROFESSORS

John Bremner

PROFESSOR John Bremner has taken up his appointment as Professor of Organic Chemistry in the Department of Chemistry.

Professor Bremner's research and teaching interests include medicinal and heterocyclic chemistry and the chemistry of bio-active natural products, especially those from medicinal plants.

He is keen to extend the Department's collaborative links with outside bodies, particularly with the pharmaceutical industry and government agencies and research organisations.

Professor Bremner is 49. He is the author or co-author of many research publications. Among the academic positions he has held are: Research Fellow in Chemistry, Harvard University; Lecturer in Chemistry, University of Tasmania 1968 - 1973; Senior Lecturer in Chemistry, University of Tasmania, 1974 - 1980; Reader in Chemistry, University of Tasmania, 1981 - 1991; Head of Department, 1989, and October 1990 to December 1991.

Professor Bremner was also Head of the Centre for Pharmacology, Medicinal Chemistry and Toxicology at the University of Tasmania from 1990 - 1991.

Druce Dunne

THE CHAIR of Materials Engineering has been filled by the appointment of Professor Druce Dunne, a member of the Department of Materials Engineering since 1970. Professor Dunne has a distinguished international research record in the general area of physical metallurgy. His research work has been both pure and applied and includes optical and electron microscopy, phase transformations and restoration processes in metals, thermomechanical processing of micro-alloyed structural steels and arc welding of steels. These areas also represent the main thrust of his significant contributions to the teaching program of the Department of Materials Engineering.

Professor Dunne has been involved in 18 ARC large grants, two GIRD research projects and BHP-sponsored strategic research on thermomechanical processing of steels. In addition, he has been co-ordinator of the Advanced Materials and Surface Engineering Research Program since its inception in 1989. Professor Dunne also played a central role in the successful application for the Co-operative Research Centre in Materials Welding and Joining which links the University to the CSIRO, BHP, ANSTO, the University of Adelaide and the WTIA (Welding Technology Institute of Australia).

Don Lewis

PROFESSOR Don Lewis came to the University in 1976 as a lecturer in the Department of Economics. He was promoted to Senior Lecturer in 1980 and to Reader in 1988.

Professor Lewis has published widely in applied microeconomics while focusing on the economics of crime and the occupational segregation of women in the labour force. His recent publications have been on the economics of education and health care. He has co-authored two textbooks in quantitative methods which have been adopted in many universities throughout Australia and New Zealand.

He currently has research grants from the Australian Research Council, the Department of Community Services and Health and the Office of Education and Youth Affairs.

Last year Professor Lewis received one of the four Vice-Chancellor's Awards for Excellence in Teaching. Today he is Head of the Graduate School of Business.

Don Lewis has always taken a close interest in University activities. He was chairman of the University Open Day Committee in 1991 and is chairman again this year.
Carol Morse

In February this year Carol Morse took up the position of Professor and Head of the Department of Nursing.

Before coming to Wollongong, she was Senior Research Fellow in the Key Centre for Women's Health in Society at the University of Melbourne. She has an academic background both in psychology and health science with an honours degree in psychology, a master's degree in educational psychology and a doctorate in clinical psychology.

Professor Morse has been actively interested and engaged in clinical research of women's health problems for ten years, researching premenstrual syndrome, menopause, infertility and postnatal depression. In 1986 she was an Invited Research Scholar to the University of Leiden, Netherlands, to design a research program to evaluate psychosocial factors and stress effects in infertile couples entering IVF treatment. In 1989, she was Chief Investigator of a three-year National Health & Medical Research Council-funded study to evaluate endocrine responses to cognitive therapy in PMS sufferers and from 1990-1992 was project director of a longitudinal study of women's menopausal health and wellbeing.

For the past 17 years, she has been active in professional organisations in nursing, psychology and medicine and is a Past President of the Victorian Behaviour Modification Association.

John Morrison

John Morrison will take up the BHP-sponsored Chair in Environmental Science when he joins the University later this year. Since 1975 he has been Professor of Chemistry at the University of the South Pacific (USP), Suva, Fiji. From 1982 to 1986 he was Director of Natural Resources, the USP's research and consultancy arm. Before joining USP, he held academic positions in Belfast, Kampala (Uganda) and Nottingham.

His main research interests concern the impact of agriculture on the environment and in marine pollution in the South-West Pacific. He is currently Scientific Coordinator of the South Pacific Regional Marine Pollution Assessment and Control Program.

The majority of Professor Morrison's research students are involved in integrated watershed management studies, including nutrient transport via erosion and sediment movement. His other interests include quality assurance in environmental analytical chemistry, soil genesis and classification in the Pacific Islands and the increased utilisation of wastes in small island communities.

Gill Palmer

Professor Gill Palmer joined the University as Head of the Department of Management this year. She comes from seven years as Queensland University of Technology's first woman Professor, Deputy Head of the School of Management and Director of the Key Centre for Strategic Management. Previously she was for 12 years at London's City University Business School. She has also worked in business consultancy and in the British public sector.

Gill Palmer has broad interests in management education, although her academic research has focused on employment relations and organisation theory. She has published a book on British industrial relations, edited a book on Australian personnel management and has written articles on human resource management and industrial relations. Since coming to Wollongong she has put the finishing touches to Australian Employment Relations, written with Dr Margaret Gardner, of the Queensland University of Technology, to be published by Macmillan later this year.

The Department of Management has grown considerably in recent years; indeed, Professor Palmer is one of five new staff this year, and the Department now brings together experts from a broad range of management disciplines with experience in Australia, Asia, the USA, Africa and West and Eastern Europe.
Developing Lawyer/Client Relationships

INTERNATIONAL LAW COMPETITION COMES TO AUSTRALIA

Two University of Wollongong law students, Karina Gava and Daniel Hartley, recently travelled to America to represent Australia in the annual International Client Interviewing Competition held in Portland, Oregon, and they came a close third out of the five countries taking part. Wollongong solicitor Mr Peter Kelt personally provided the funds to enable Karina and Daniel to travel to Portland.

The University of Wollongong is the first Australian university to take part in this competition which originated in the United States about twenty years ago and also involves representatives from Canada, England and Scotland.

Professor Bruce Ziff, Visiting Professor from the University of Alberta in Canada, organised the first competition in Australia last year at the University of Wollongong. He has been involved in the Canadian program for several years and coached the team from the University of Alberta which won the 1990 International Competition. The aim of the competition is to develop skills in an important area: the lawyer/client relationship. Professor Ziff was delighted that Australia was involved in this year’s competition. ‘Instead of focusing on court, which is a very rare thing for lawyers, it focuses on interviewing and dealing with clients.’

The notion of a competition was borrowed from the conventional moot court exercises which for many years have been common in law schools in the United States and elsewhere. While moots are primarily designed to focus on appellate advocacy, a form of practice in which only a small element of the profession engages, the client interviewing competition is concerned with an activity which most practising lawyers undertake on a day-to-day basis.

The competition is designed to provide a forum for the development of interviewing and counselling models which can be carried into practice. In the competition, students, in teams of two, conduct a 30 minute interview. Several days before that interview, the team is given a short ‘office memorandum’, indicating the nature of the problem which will form the basis of the interview. Typically, the details are sketchy, although the team would know the general area of law to be involved (for example, a commercial contract dispute).

The team interviews a ‘client’, often an actor, who has been provided with a synopsis of the problem, sometimes with relevant documents, such as a contract or demand letter. The team has to define the nature of the problem, its possible legal and non-legal implications, and begin the process of structuring a solution to the client’s problem. After the interview, the team decides what follow-up work is required.

The judging criteria emphasise the team’s skill in building a good working relationship and examine the structure of the interview, the use of effective questioning, the ability to elicit relevant information efficiently, to ascertain the client’s goals and the ability to communicate clearly with the client.

At an inaugural Australian competition to be held later this year and hosted by the University, a team will be selected to compete in next year’s competition, which will be held in Calgary, Alberta. All Australian law schools will be invited to enter teams and 12 schools have already expressed an interest in taking part.

The International Committee of the Client Interviewing Competition said it was pleased to see Australia represented in this year’s event and has expressed interest in Australia acting as competition host in 1995.

Why don’t you ... advertise in Wollongong Outlook?

You can
• promote your business
and
• offer a service to fellow alumni

Contact Juliet Richardson, Alumni Officer, telephone (042) 21 3249; facsimile (042) 21 3128
ALUMNI ARE INVITED  
.  to attend the  
INAUGURAL MEETING  
of the  
UNIVERSITY OF WOLLONGONG ALUMNI ASSOCIATION  
to be held on  
Wednesday 24 June at 5.30pm in the  
Council Room, Administration Building, University of Wollongong  
A constitution for the Association has been prepared and approved in principle by the University Council — this is printed below and will be ratified at the meeting  
Nomination and election of office bearers will take place  
Come along and have your say!  
Light refreshments will be served after the formal proceedings

CONSTITUTION OF THE UNIVERSITY OF WOLLONGONG ALUMNI ASSOCIATION INC.

1.  PREAMBLE

There shall be a University of Wollongong Alumni Association Incorporated which shall be an integral part of the University of Wollongong, subject to its Act, Rules, By-laws and Resolutions of its Council.

2.  OBJECTS

2.1 To engender support for the interests, objectives and activities of the University of Wollongong from its alumni.

2.2 To encourage alumni to be involved in the affairs of the University through the Convocation representatives on Council and by providing the opportunity for interaction between alumni, current students and staff.

2.3 To inform alumni on a regular basis about developments at the University and about the achievements of fellow alumni.

2.4 To offer services and benefits to alumni.

3.  MEMBERSHIP

3.1 Members

The following persons are alumni and are Members of the Association:

(i) Graduates and diplomates of the University of Wollongong, the former Wollongong University College of the University of New South Wales, the
former Wollongong Division of the NSW University of Technology, the former Wollongong Institute of Education and the former Wollongong Teachers’ College; and any person who has completed the requirements for a degree or diploma course at any of these institutions;

(ii) Any person who has completed at least one semester of successful study at the University under either the Study Abroad or Exchange Programs;

(iii) Former academic and general staff of the University of Wollongong, and of the former associated institutions listed in (i), provided they were employed for at least six months on a full-time basis or equivalent;

(iv) Members of Convocation not already included in (i) and (iii), with the exception of current staff of the University.

Voting rights within the Association are restricted to Financial Members of the Association.

3.2 Financial Members

All persons listed in paragraph 3.1 as Members may also be Financial Members of the Association, provided they:

(i) make an annual donation to the University of a minimum amount as prescribed by the Board,

OR

(ii) make a donation to the University of a minimum amount, as prescribed by the Board, to cover a five-year period.

Individuals seeking Financial Membership of the Association shall apply to the Board for that membership.

3.3 Associate Members

The following persons may be Associate Members of the Association:

(i) Currently enrolled students (unless they are Members);

(ii) Current staff members (unless they are Members);

(iii) Any other persons considered appropriate by the Board.

Individuals seeking Associate Membership of the Association shall apply to the Board for that membership. Associate Membership may only be granted if a person is also a Financial Member.

3.4 Honorary Life Members

Admission to this membership category may be granted from time to time as agreed by the Board. Honorary Life Members are deemed to be Financial Members.

All Fellows of the University, all Emeritus Professors and all persons who receive honorary degrees from the University shall be Honorary Life Members.

3.5 General

(i) A register of Financial Members shall be kept by the Association showing the name, address and date of commencement of membership for each
Member. Provision for noting the date of cessation of membership shall also be contained in the register.

(ii) Financial Membership shall cease upon resignation, expulsion or failure to pay the prescribed sums payable within three months of the due date.

(iii) Financial Membership sums payable shall fall due on the first day of each financial year of the Association. The financial year of the Association shall run from 1 January to 31 December or such other period as is determined by the Board.

4. MEMBERS’ LIABILITY

The Members of the Association shall have no liability to contribute towards the payment of debts and liabilities of the Association or the costs, charges and expenses of the winding up of the Association except to the amount of any unpaid Financial Membership amounts.

5. DISCIPLINING OF MEMBERS

Anyone who wishes to appeal against a decision refusing Financial or Associate Membership, expelling them from such membership or otherwise disciplining them, may do so at the next general meeting of the Association.

6. BOARD OF MANAGEMENT

6.1 The Association shall have its affairs controlled and managed by the office bearers and other members known collectively as the Board of Management.

6.2 The Board of Management shall consist of:

(i) A President, Vice-President, Secretary and Treasurer elected by and from the Financial Members of the Association at the Annual General Meeting;

(ii) A Financial Member from an academic unit to be appointed annually by the Vice-Chancellor;

(iii) One of the four Convocation representatives on Council to be nominated annually by Council;

(iv) At least one representative nominated annually by each operational chapter of the Association;

(v) The Pro Vice-Chancellor ex officio of the University;

(vi) The Alumni Officer ex officio.

6.3 Any casual vacancy occurring on the Board shall be filled by a Financial Member appointed by the Board.

6.4 Each member of the Board shall hold office from the date of his or her election or appointment until the next Annual General Meeting.

6.5 Retiring Board members are eligible for re-election.
6.6 The Board shall meet as often as necessary to conduct the business of the Association and not less than four times a year.

6.7 The quorum for meetings of the Board shall be five members at least three of whom shall be elected office-bearers elected at the previous Annual General Meeting.

6.8 Notice of Board meetings shall be given at the previous Board meeting or by such other means as the Board may decide upon.

6.9 A member of the Board shall cease to hold office upon resignation in writing; removal as a Financial Member of the Association; or absence from three successive Board meetings without approval by the Board.

6.10 The Board may function validly provided its number is not reduced below the quorum. Should Board numbers fall below the quorum the remaining Board members may act only to appoint new Board members.

6.11 Questions arising at any meeting of the Board shall be decided by the majority of votes of those present. In case of an equality of votes the person appointed to chair the meeting shall have a second or casting vote.

6.12 If within half an hour of the time appointed for a Board meeting a quorum is not present the meeting shall be dissolved.

6.13 Additional meetings of the Board may be convened by the President or any two members of the Board.

7. POWERS OF THE BOARD OF MANAGEMENT

The Board shall have the power:

7.1 To make recommendations to the Council on the conditions under which Members, Associate Members and Financial Members may use the property, premises and facilities of the University.

7.2 To establish subcommittees of the Board, make regulations for their proceedings, and nominate either Board or any other Financial Members to those subcommittees. Recommendations of subcommittees shall be subject to ratification by the Board.

7.3 To make representations to the Council on any matters affecting the Association and its Members.

7.4 To approve membership applications for the Financial and Associate Membership categories.

7.5 To conduct elections as required.

7.6 To encourage, foster and develop the establishment of Alumni Chapters which will further the interests and relationships between Members, and between Members and the University.

8. GENERAL MEETINGS

8.1 An Annual General Meeting of the Association shall be held each year within six months from the end of the financial year of the Association (except the first
Annual General Meeting which shall be held within two months from the end of
the first financial year and within 18 months of incorporation).

8.2 The Board may, whenever it thinks fit, convene a special general meeting of the
Association. A special general meeting must be convened by the Board within
three months of receiving a written request to do so from at least five per cent of the
Financial Members of the Association.

8.3 At least 14 days' notice of all general meetings and notices of motion shall be given
to Members. In the case of general meetings where a special resolution is to be
proposed, notice of the resolution shall be given to Members at least 21 days before
the meeting.

8.4 In the case of the Annual General Meeting the following business shall be trans-
acted:

(i) confirmation of the minutes of the last Annual General Meeting and any
recent special general meeting;
(ii) receipt of the Board's report upon the activities of the Association in the last
financial year;
(iii) receipt and consideration of a statement from the Board which is not mis-
leading and gives a true and fair view for the last financial year of the
Association's:
• income and expenditure
• assets and liabilities
• mortgages, charges and other securities
• trust properties;
(iv) election of office bearers and other members of the Board.

8.5 The quorum for a general meeting shall be 12 Financial Members present in person.
If within half an hour of the time appointed for a general meeting a quorum is not
present the meeting shall be dissolved.

8.6 Voting at general meetings shall be by a show of hands by those eligible to vote
unless a secret ballot is requested by one quarter of those present and eligible to
vote. Decisions shall be made by a simple majority vote except for those matters
which must be decided by special resolution where a three-quarter majority of
those present and eligible to vote is required.

8.7 All votes shall be given personally and there shall be no voting by proxy.

8.8 In the case of an equality of votes the person chairing that part of the meeting shall
have a second or casting vote.

8.9 Nominations of candidates for election as office bearers or other Board members
may be made at the Annual General Meeting or in such other ways as may be
determined by the Association at a general meeting.

8.10 Written notice of all general meetings shall be given to Members either personally
or by post or by advertisements placed in appropriate newspapers.

9. OFFICE BEARERS

9.1 The President or, in the President's absence, the Vice-President, shall act as chair-
person at each general meeting and Board meeting of the Association.
9.2 If the President and Vice-President are absent from a meeting or unwilling to act, the members present at the meeting shall elect one of their number to act as chairperson.

9.3 The Secretary shall ensure that records of the business of the Association including the rules, register of Members, minutes of all general and Board meetings and a file of correspondence are kept. These records shall be available for inspection by any Member and shall be held in the custody of the Secretary.

9.4 With the exception of all bequests and endowments to the Alumni Association, which shall be transferred or paid to the University of Wollongong Foundation, the Treasurer shall ensure that all monies received by the Association are paid into an account in the Association’s name. Payments shall be made through a petty cash system or by cheque signed by any two of three signatories authorised by the Board. Major or unusual expenditures shall be authorised in advance by the Board or a general meeting.

9.5 The Treasurer shall ensure that correct books and accounts are kept showing the financial affairs of the Association. These records shall be available for inspection by any Member and shall be held in the custody of the Treasurer.

10. **SPECIAL RESOLUTIONS**

10.1 A special resolution must be passed by a general meeting of the Association to effect the following changes:

   (i) a change of the Association’s name;
   (ii) a change of the Association’s rules;
   (iii) a change of the Association’s objects;
   (iv) to voluntarily wind up the Association and distribute its property;
   (v) to apply for registration as a Company or a Co-operative.

10.2 A special resolution shall be passed in the following manner:

   (i) notice must be given to Members advising that a general meeting is to be held to consider a special resolution;
   (ii) the notice must give details of the proposed special resolution and give at least 21 days’ notice of the meeting;
   (iii) a quorum must be present at the meeting;
   (iv) at least three-quarters of those present and eligible to vote must vote in favour of the resolution;
   (v) in situations where it is not possible or practicable for a resolution to be passed as described above, a request may be made to the relevant NSW Government Department or Statutory Authority for permission to pass the resolution in some other way.

11. **PUBLIC OFFICER**

11.1 The Board shall ensure that a person is appointed as Public Officer.

11.2 The first Public Officer shall be the person who completed the application for incorporation of the Association.
11.3 The Board may at any time remove the Public Officer and appoint a new Public Officer provided the person appointed is 18 years of age or older and a resident of New South Wales.

11.4 The Public Officer shall be deemed to have vacated the position in the following circumstances:
(i) death;
(ii) resignation;
(iii) removal by the Board or at a general meeting;
(iv) bankruptcy or financial insolvency;
(v) mental illness;
(vi) residency outside New South Wales.

11.5 When a vacancy occurs in the position of Public Officer the Board shall within 14 days notify the relevant NSW Government Department or Statutory Authority by the prescribed form and appoint a new Public Officer.

11.6 The Public Officer is required to notify the relevant NSW Government Department or Statutory Authority by the prescribed form in the following circumstances:
(i) appointment (within 14 days);
(ii) a change of residential address (within 14 days);
(iii) a change in the Association's objects or rules (within one month);
(iv) a change in the membership of the Board (within 14 days);
(v) of the Association's financial affairs (within one month after the Annual General Meeting);
(vi) a change in the Association's name (within one month).

11.7 The Public Officer may be an office bearer, Board member, or any other person regarded as suitable for the position by the Board.

12. MISCELLANEOUS

12.1 The Association shall effect and maintain insurance as is required under the Associations Incorporation Act 1984 together with any other insurance which may be required by law or regarded as necessary by the Association.

12.2 The funds of the Association shall be derived from the sums payable by Members, donations, grants and such other sources approved by the Association.

12.3 The Common Seal of the Association shall be kept in the custody of the Secretary and shall only be affixed to a document with the approval of the Board. The stamping of the Common Seal shall be witnessed by the signatures of two members of the Board.

12.4 The Association may at any time pass a special resolution determining how any surplus property is to be distributed in the event that the Association should be wound up. The distribution of surplus property shall be in accordance with section 53 of the Associations Incorporation Act 1984.

12.5 Service of documents on the Association is effected by serving them on the Public Officer or by serving them personally on two members of the Board.

12.6 Notices sent by post shall be deemed to have been received two days after the date of posting.

12.7 The income and property of the Association shall be used only for promotion of the objects of the Association and shall not be paid or transferred to Members by way of dividend, bonus or profit.
MEMENTOS

The following items may be ordered by completing the form below and returning it with your cheque or postal money order to:

Alumni Officer, University of Wollongong
Locked Bag 8844, South Coast Mail Centre, NSW 2521
Telephone: (042) 213249 or (042) 213110; Facsimile: (042) 213128

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Price</th>
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<tr>
<td>Polyester tie (with navy blue background)</td>
<td>19.00</td>
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<tr>
<td>Silk tie (with navy blue background)</td>
<td>31.00</td>
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<td>Lapel pin</td>
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<td>Embroidered cloth badge</td>
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<td>Key ring (University crest on leather fob)</td>
<td>6.50</td>
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<tr>
<td>Wall Plaque * (15 x 18cms - Coat of Arms mounted on varnished wood)</td>
<td>48.00</td>
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<td>University of Wollongong: An Illustrated History, by Josie Castle</td>
<td>18.00</td>
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<td>Sheaffer ballpoint pen (gold laser engraved with University's name and crest)</td>
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<td>Teaspoon (Stuart): plain or flute (pls. specify)</td>
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<td>Letter opener</td>
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<td>Fridge magnet</td>
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<td>Thimble</td>
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<td>Bottle opener</td>
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<td>Coaster (single)</td>
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<td>Sweatshirt*: white/navy/royal blue/red</td>
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NB: Postage and packaging is included, but for those items marked with an asterisk (*) please add A$5.00 for overseas orders.

I enclose a cheque/postal money order (or if overseas, bank draft drawn on an Australian bank) payable to the University of Wollongong for A$................. for the items indicated above.

PLEASE PRINT CLEARLY

Name: ___________________________ Signature: ___________________________
Address: ___________________________ Postcode: ______ Country: ___________
Telephone: Work: ___________________________ Home: ___________________________
THE UNIVERSITY AND THE WORLD AROUND US

AFTER only a year of operation, the University's Centre for Research Policy (CRP) is making a significant impact on international science and technology policy. In concept and action it is an Australian National Centre, advised by a board consisting of the country's key research policy makers. The Centre's overall objective is to contribute, through research and educative activities, to the more effective planning and utilisation of the nation's scarce knowledge-generating and innovative resources.

Its reputation is enhanced by a major program completed in March. The Centre was asked to assist Indonesia in drafting its national technology and industry action plan. As part of the exercise, virtually the whole of Indonesia's science policy staff of 17 were flown to Wollongong for a fortnight. Funding was provided by Indonesia through a World Bank loan.

Professor Stephen Hill, Director of the Centre, said that the program linked into the role the Centre has been playing with the Australian government in establishing science and technology relationships throughout Asia. The Department of Industry, Technology and Commerce was heavily involved in the Wollongong program; the Department of Employment, Education and Training (DEET) and the Australian Science and Technology Council (ASTEC) also provided people and support.

'Indonesia is working towards implementing the plan from 1994. It involves a major new thrust to upgrade their technological capabilities and offers significant opportunities for Australia to collaborate.' This type of program is not unusual for the Centre. Dr Shantha Liyanage has been assisting Laos to develop its own plans and will return to Laos to finalise them.

The Centre is also directly involved in developing the science and technology plans, policies and programs of Malaysia, China and Thailand - in all cases in close association with the Australian Government. It has staged two other major international meetings since it was established last year: one for the United Nations Science and Technology Policy Asian Network (STEPAN) program and one for the Asia Pacific Economic Co-operation industrial technology program.

Ron King joins Higher Education Council

TOWARDS the end of 1991, negotiations with the Higher Education Council resulted in the appointment of Professor Ron King as a Counsellor on the Higher Education Council, one of the four constituent Councils of the National Board of Employment, Education and Training (NBEET). The appointment is for two years.

Professor King's research publications include works on education for migrants, special education policies, equity in education and business/industry education in schools. Foundation Professor of Education at the University, Professor King currently represents the Australian Vice-Chancellors' Committee (AVCC) on the National Committee for Competency Standards in Psychology, and has been a member of the AVCC Working Party on Transfer of Credit in 1985-86, and the Working Party to Review Teacher Education in 1978.

Outside his university activities Professor King has chaired the International Congress of Psychology and Editorial Board of the International Union of Psychological Science Congress Publications. He has been Convener of the NSW Vice-Chancellors' Committee Working Party on University Entrance Requirements, Councillor of The Australian Psychological Society and Chair of its Strategic Planning and Higher Education Policy Committee and a member of the National Innovations Committee of the Commonwealth Schools Commission.

Professor King replaces Professor Leo West who is to take up an appointment as Pro Vice-Chancellor at Monash University.
Reading Failure can be Devastating

Professor Bill Lovegrove in the following article discusses research being conducted by the Applied Cognitive Studies Group in the Department of Psychology at the University of Wollongong. Professor Lovegrove and Dr S Avons head the group, whose work has revealed interesting differences between dyslexic and normal readers in basic visual processing. They are currently investigating some exciting remedial implications. A large section of the world dyslexic research community is using their research as a model from which to investigate nervous system processing in dyslexics. Part of the research will be presented at a special conference organised by the New York Academy of Sciences, and to be held in New York in September.

Developmental dyslexia refers to children with normal or better intelligence with no known behavioural or organic disorders who, despite normal schooling and average progress in other subjects, have a reading disability of at least two years. Estimates of prevalence of dyslexia vary but in many countries it is between five and 15 per cent. This makes it one of the most widespread problems in children. The problem may be devastating for individuals and their families in several ways. First, many parents are not at all prepared for their children's reading failure, especially since until the child starts school there is often no sign of any problem. Second, it can lead to intense personal frustration because it involves extreme under-achievement in clever children. Third, what starts as a specific reading problem may soon become a much broader educational and emotional one given the importance of reading in schools.

The research has focused on the possible contribution to the difficulty of processing information presented visually. Lovegrove and Avon started their research by asking what the visual system has to do in reading.

What does the visual system have to do in reading?

The demands on the visual system in reading are extremely complex. When a person is reading, the eyes move through a series of rapid movements called saccades. These are separated by fixation intervals when the eyes are stationary. The average fixation duration is approximately 200-250 msec for normal readers; and it is during these stationary periods that information from the printed page is seen.

This fixation-eye movement sequence creates two problems for the visual system. The first results from the fact that when, for a brief period, we normally look at a stimulus, we continue to see the stimulus after it has actually been removed. This is the basis of television and movies where there is actually a gap between successive images. We do not see the gap as the visual system continues to respond throughout the gap period. If this were to occur throughout our eye movements in reading, what we would see in one fixation may be superimposed on the next fixation's input, resulting in an unclear visual input. Somehow, however, our visual system normally solves that problem. Much of the research has concerned 'how'.

The second problem concerns the mechanism by which our visual system combines the inputs from successive fixations. A special sub-system is involved in this task. Evidence has shown the researchers that the task of extracting information during fixations is done by a subsystem of the visual system called the sustained system. The task of combining information from successive fixations is performed by a second sub-system - designated the transient system. The existence of these systems has been demonstrated by psychological, physiological and anatomical research; in

The figure below shows the perceptual masking effects of temporal integration of persisting sustained activity from preceding fixation intervals with sustained activity generated in succeeding ones when the reading of a printed sentence requires one, two or three fixations. Here, the effects of transient-on-sustained inhibition have not been taken into account. From 'Unmasking Visual Masking: A look at the "Why" behind the Veil of the "How"' by B G Breitmeyer, Psychological Review, 1980, 82, 52-69. Copyright 1980 by the American Psychological Association.

<table>
<thead>
<tr>
<th>Normal Vision is Iconoclastic (Three fixations)</th>
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<td>Normal Vision is Normal Vision is Iconoclastic (Two fixations)</td>
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<td>Normal Vision is Iconoclastic (One fixation)</td>
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normal readers the transient system transmits its message to the brain before the sustained system.

**How do these two systems function in dyslexics?**

Bill Lovegrove says that the research has concentrated on the functioning of these two visual sub-systems in dyslexics and normal reading controls. On the basis of many studies it has been shown that these two groups do not differ in the way their sustained systems function (the system which extracts information while the eye is still). Rather, dyslexics have a weak transient system which is likely to lead to superimposition of one input on the next, and to create problems in combining information from successive fixations.

The major resulting problem concerns the relative timing of the messages from the two systems in dyslexics. The two messages arrive at the brain too close together in time. Based on psychological experiments, these conclusions have recently been confirmed by neurologists' anatomical studies on the brains of deceased dyslexics at Harvard.

**Can anything be done about this problem?**

The Wollongong researchers are currently pursuing two remedial implications of this work. The first involves varying the way in which print is presented on a page in order to reduce the demands made by reading on the transient system. Results so far show that it is possible significantly to improve reading in dyslexics. The second concerns devising ways of strengthening the transient system relative to the sustained system. This also involves correcting the relative timing of the systems. Collaborative research, at the University of New Orleans, is producing promising and exciting results.

Research from other laboratories is suggesting that the problem identified at Wollongong in the visual system in dyslexics may also be found in other senses, such as hearing. Research has just begun on this large question.

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**FIRST OFFSHORE DEGREE COURSES**

At the signing of the contract are, seated, from left: Ir Musdiono, Director Personnel, PT Krakatau Steel; Professor Ken McKinnon, Vice-Chancellor of the University of Wollongong and Mr Tarbin, Manager, Organisation Planning, PT Krakatau Steel. Standing: Associate Professor Noel Kennon, Head of the Department of Materials Engineering, left; Mr Hadait, Deputy Manager, Training Centre, PT Krakatau Steel, centre; and Professor Nick Standish, of the University's Department of Materials Engineering.

AGREEMENT has been reached between the University and PT Krakatau Steel, Indonesia, for the provision, to their engineers and metallurgists, of Postgraduate Diploma in Materials Engineering and Honours Master in Engineering by research.

The Diploma will be undertaken by the non-metallurgical engineers to equip them with the elements of the principal business of the company - the manufacture of steel from iron ore to the final product. As far as is known, this is the first time anywhere in the world that such an initiative has been taken by industry.

The Master's Course will be undertaken by the metallurgical engineers to equip them with specialist knowledge of the many processes involved in the production of the various steel products now taking place in the company's steelworks and subsidiaries, and those being planned for the future.

Also involved are the Illawarra Technology Corporation and the Faculty of Engineering of Universitas Tirtayasa, which will provide the necessary facilities and staff for the courses.
RESEARCH INTO FLOOD DETENTION BASINS

Computer software developed at the University is being used throughout Australia and overseas to combat flooding in urban areas. Developed by Dr. Michael Boyd of the Department of Civil and Mining Engineering, the software may be used to calculate flood flows in catchments and to design flood detention basins to reduce downstream flooding.

When a natural catchment is developed for urban residential or commercial use, it is accompanied by an increase in flood damage. The reasons are, first, development encroaches on to the floodplain, putting new houses at direct risk. Second, encroachment worsens the flood situation by reducing the cross-section area of the flood-flow area, leading to higher flood heights. Finally, development of the catchment for urban uses changes the flooding characteristics of the catchment itself. This occurs because the replacement of natural vegetation cover by impervious paved surfaces such as roads and roofs increases the amount of storm rainfall which runs off the catchment to produce the flood. The replacement of natural streams by gutters, pipes and concrete channels also increases flood-flow velocities.

More than $500 million is spent in Australia each year to manage stormwater run-off from urban areas. Modern practice is to store temporarily, in detention basins, as much runoff as possible, either in small basins built onsite in each development, or in larger basins which are often grassed and used for recreation in non-flood periods. Grassed floodways are preferred to concrete channels because they reduce flow velocities and improve the quality of the stormwater runoff. Artificial wetlands are increasing in popularity to improve runoff water quality.

Research by Dr. Boyd, and colleagues at the University of New South Wales and CSIRO Division of Water Resources, has allowed the prediction of the flood hydrograph resulting from a storm occurring on a catchment. This has led to the development of the computer model WBNM, recommended for engineering practice by the Institution of Engineers Australia manual on flood estimation Australian Rainfall and Runoff. The program predicts increases in flooding as the catchment is progressively urbanised. It also allows the effects of various flood mitigation strategies to be assessed.

One strategy is to construct flood detention basins to store floodwaters on a temporary basis. The idea here is that by temporarily storing some of the floodwater, downstream flooding is reduced. Today, flood detention basins are constructed almost as a matter of course in new urban developments. They are also retro-fitted to existing catchments where development of the upper catchment causes increase in flooding above the original design flows.

Design of a flood detention basin requires calculation of the volume of floodwater which must be stored to achieve the required reduction in flooding. The maximum water level in the basin is then determined and the spillway outlet works designed to carry these reduced flood flows. Two other programs developed by Dr. Boyd allow these calculations to be carried out.

Program BASIN allows the engineer to work interactively in designing the basin. The usual criterion is that urban development of the catchment is not to increase flooding above the natural catchment flows. Flood hydrographs are calculated for the catchment under pre- and post-development conditions. The computer program then calculates the size of basin
At Fairy Creek, are: left, Wollongong City Council drainage engineer Rudy van Drie; middle, Dr Michael Boyd of the University’s Department of Civil and Mining Engineering; and, at the right, Peter Kofod, Acting Manager, Design, Wollongong City Council.

Program CULVERT allows the engineer to calculate the flood flow through any combination of spillway and culverts and the corresponding upstream flood level. The idea here is that the spillway and culverts must be made large enough to prevent surcharging or overtopping of the roadway embankment. More than 200 of these computer programs have been marketed by the University of Wollongong’s Illawarra Technology Corporation.

All these computer programs have been used in two recent major flood studies in the Wollongong area.

Program CULVERT has been used by consultants to check the capacity of 70 culverts in a $40 million upgrading of the Illawarra rail line. The strategy is to provide culverts big enough to pass flood flows without excessive ponding of water upstream of the rail embankment. If upstream water levels are too high, instability and collapse of the embankment may occur. Enlarging the culverts, however, can have a detrimental effect on downstream flooding. This is because the smaller culverts and ponded water act as flood detention basins, thereby reducing downstream flood flows. Enlargement of the culverts, therefore, is being accompanied by additional flood mitigation works downstream of the rail embankment.

Programs BASIN and WBNM are being used by design engineers Peter Kofod and Rudy van Drie of Wollongong City Council in the $3 million Fairy Creek Flood Mitigation Program. Fairy Creek is fully urbanised and subject to frequent flooding, particularly in the lower part of the catchment near North Wollongong. The flood mitigation works consist of five major flood detention basins being constructed in the upper catchment. Other measures include culvert enlargement and construction of levee banks along the lower reaches of Fairy Creek. Computer program BASIN is being used to design each basin and its outlet hydraulics. Because multiple basins are being used, the flood behaviour of the catchment is complex and program WBNM is being used to model the total catchment.

Further information on computer programs BASIN and CULVERT is available from Graham Frost of the Illawarra Technology Corporation.
From left, Mr Jean Paul Schittenhelm, Regional Vice-President, SITA, Mr Michael Yabsley, NSW Minister for State Development, and Dr Ian Reinecke, Director, CITR

UNI TEAM TO BUILD GLOBAL AIRLINE SECURITY SYSTEM

Researchers at the University have been awarded an $850,000 contract to design and build a revolutionary airport electronic identification system to help fight international crime and terrorism.

The security screening system could, however, spark controversy over privacy rights because it would eventually record millions of air travellers on video for comparison with a computer database of crime suspects.

An international airline communication group, the Société Internationale de Télécommunications Aéronautique (SITA), has commissioned the University’s Centre for Information Technology Research (CITR) to develop the system, which is likely to be tested at an Australian airport within a few years.

‘The face-recognition project has tremendous implications for airport security’, the Sydney-based regional Vice-President of SITA, Mr Jean Paul Schittenhelm, said at the launch of the project.

The system could also be used in other areas such as bank security. Mr Schittenhelm said that the three-year project would use techniques based on the manual identikit system used by law enforcement agencies rather than decomposing facial images into fixed-size mosaic tiles.

Dr Ian Reinecke, Director of CITR, said airline passengers would not be ‘dragged direct to the cells’ simply because the database identified them as a possible suspect. Other checks would need to be carried out.

SITA, a co-operative owned by nearly all the world’s airlines, provides non-profit telecommunications and information technology services to airline and related industries.

The research will be supported by SITA’s own research and development facility at Sophia Antipolis, France.

From an article by Tom Ballantyne, Aviation Editor, Sydney Morning Herald
Conserving the Elusive Marsupial

The tiger quoll, mainland Australia's only large marsupial carnivore, was once commonplace throughout Australia. It was well-known for its raiding of chicken runs in outer Sydney and Melbourne suburbs. Now the quoll is found only in isolated pockets of dense bushland, and could be facing extinction.

Debbie Andrew, masters student with the Department of Biology at the University of Wollongong, is studying the quoll in the Illawarra and other parts of NSW, in the hope of understanding how the species might best be conserved. Through her postgraduate research, Debbie plans to discover more about this elusive marsupial. Currently listed on the revised Schedule 12 of the NPW Act for Endangered Fauna, it could be under threat from foxes and feral cats, poison baiting and habitat destruction. 'I'm interested in finding out what is the distribution and conservation status of the tiger quoll, and what are the threats to its survival. Little is known about its habits, home range, diet and population densities'.

In order to find out more about the carnivore and its habits, Debbie plans to tag quolls in the Illawarra and other parts of NSW with radio collars. These will enable her to monitor individual animals, and so discover which types of habitats they prefer. She hopes also to look at the importance of dingoes to the quoll’s survival. 'Dingoes could have a beneficial effect for quolls and other medium-size marsupials,' she says. But she believes that more information is needed to determine whether dingoes act to depress populations of foxes which may in turn pose a threat to quolls and other marsupials of similar size.

Taking 12 months leave without pay from her job with the NSW National Parks and Wildlife Service, Debbie is now working in Sydney. She will complete her study on the quoll part time. Her research is one of several projects now established in Australia to help the quoll in its plight. It is sponsored by the Australian National Parks and Wildlife Service, the Royal Zoological Society of NSW, the Water Board, the University of Wollongong and the South-East Region and Nowra District Offices of the NSW National Parks and Wildlife Service.

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1982 Class Reunion

of Section 901
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For further information please contact either Tonia Gray on 213875 (w) or 044.488348 (h); Tracey Cannon on 266037 (h); or Greg Fisher on 835702 (h)
WILDCAT FALLING

School of Creative Arts’ theatre success at the Adelaide Festival Fringe and in Sydney

The recently-formed Tin Roof Theatre Company returned to Wollongong after a successful performance at the Adelaide Festival Fringe. Formed in 1991, the company comprises graduates and students from the University’s School of Creative Arts theatre course.

The company performed two Australian plays, Wildcat Falling, written by Mudrooroo Narogin and adapted for the stage by Peter Gorman, and Lilly and May by Patricia Cornelius. Both plays, chosen for the 1992 Adelaide Festival Fringe, reflect the political and contemporary interests shared by the group.

Whether they are acting, directing or providing technical resources, members of the group are committed to bringing to audiences works by Australian writers concerning contemporary issues in society.

Director Sally Riley and the company performed Wildcat Falling in Sydney at the Studio Theatre, Newtown, from March 30 to April 10.

Wildcat Falling was the first novel by any writer of Aboriginal blood to be published in Australia. The work explores the dilemmas and conflicts of the young Aborigine in Australian society, by examining the effects of isolation and a consequent search for identity. It is the story of an Aboriginal youth, a ‘bodgie’ of the early sixties, who grows up on the ragged outskirts of a country town, falls into petty crime, goes ‘inside’ and emerges to do battle once more with the society that put him there.

Peter Gorman adapted this novel for the stage. It had its premiere as director Sally Riley’s graduation play at the School of Creative Arts’ Performance Space in 1990. The playwright’s use of filmic devices and vignettes in adapting the novel has produced an active piece of theatre which maintains the emotional intimacy of the narrative.

Of Aboriginal origin, Sally feels a strong affinity with the issues addressed in the novel, including the boredom of small-town living, with its attendant lack of motivation and the search for identity by individuals seen as outcasts from both societies.

Members of the Tin Roof Theatre Company, from left: Michael Godbee, Sally Riley (top), Romina Tappi, Anne Lingard, Cassie McCallagh, Sharon Vickery and Trevor Brown

Victorian sculptor Shona Nunan has presented this exquisite bronze sculpture of a young boy to the University. Shona is a sculptor of high repute whose works are mainly in private collections. She was keen to have some pieces exhibited in public places so that they could be enjoyed by many. Young boy encapsulates the awkwardness of adolescence while embodying idealism and purity.
ITC FUNDS CHAIR

IN LATE 1990 the Board of the Illawarra Technology Corporation Limited committed $250,000 over five years to fund a Joint Chair in Materials Handling and Processing with the University of Wollongong. The proposal was subsequently approved by the Council of the University, and Professor Peter Arnold was appointed to the Chair. Now in its second year, the Joint Chair is an excellent example of the commitment of ITC to assist the University in achieving its aims and objectives. The distinguished record of Professor Arnold, together with the support and enthusiasm of Professor Tibor Rozgonyi, Dean of Engineering, has ensured that the first Joint Chair between the University and its commercial arm has established an excellent precedent for similar ventures.

OBITUARIES

Peggy Tellick

THOSE familiar with the University in the late seventies will recall that an early appointee to the position of part-time journalist in the then Planning and Development Office was Peggy Tellick.

Peggy’s background was in journalism, public relations and education. She graduated from the University of Melbourne in the thirties and taught in high schools in Victoria until the fifties when she moved into journalism. She relocated to Sydney in the early seventies where she established her own public relations consultancy.

Peggy came to Wollongong in 1977 and joined the young University of Wollongong the following year. She was instrumental in laying the foundations for the good relations which the University still maintains with the local media. She rapidly became known as something of a campus character.

Her career came to a sudden and untimely end when she suffered a massive stroke while attending a Christmas function in December 1979. Although severely physically disabled, Peggy lived in the Illawarra Retirement Trust Nursing Home at Towradgi until January 1992.

Peggy endured the tedium of nursing home life with great courage and during this time she retained a remarkable memory and an ascerbic wit.

Joan Kiernan

JOAN Louise Kiernan (née McKay), was born in Canberra on 5 July 1935. She attended Canberra High School and was school captain in 1952. She gained first place and first-class honours in Japanese in the leaving certificate, and was captain of the hockey team. Her career as a librarian and part-time student at the Australian National University was ended by her marriage in 1954 to Colm Kiernan, who has served on the academic staff of the University of Wollongong since 1964.

In 1954, Joan and Colm Kiernan went to Cambridge University where Colm completed his degree studies. Their daughter, Margaret, later gained first-class honours in mathematics in the Bachelor of Science degree at the University of Wollongong and her PhD from the same university. Their second daughter, Carol, also graduated with an honours degree in arts from the University of Wollongong.

It was an unusual occasion in 1979 when Joan Kiernan and her two daughters graduated together from the University of Wollongong. Joan had completed a bachelor of arts degree.

A son, Matthew, born in Wollongong, graduated in medicine at the University of Sydney.

In 1981, after working for two years in the library of the University of Wollongong, Joan successfully completed the Diploma in Librarianship at the National University of Ireland, University College Dublin. She and her husband returned to Australia in 1986, when Joan established a successful china restoration business in Sydney. After a long illness she died of Motor Neurone Disease in April 1992.
WITH the opening of Stage 6 this year, the University Union's plans to develop further its role as the community centre of the campus have come to fruition. The project began in 1989, when it was already apparent that expanding enrolments were placing ever-increasing demands on facilities. Since 1986, enrolments have increased by 60 per cent, with corresponding pressures on parking space, retailing services and function space. The bookshop was one area in which demands had long exceeded capacity. Past students will no doubt remember the bookshop bottleneck at the beginning of session!

With its multi-storey carpark, retail centre, bookshop and full Post Office, a conference and reception centre and National Australia Bank branch, all in one building, Stage 6 meets the most urgent demands of the campus. The retail centre occupies the ground floor. With 800 square metres of floor space, the centre ranks among the best retail facilities of any campus in Australia. The Bookshop and Post Office with Commonwealth Bank agency, both new ventures for the Union, are situated within one large, supermarket-style store. You can buy stationery, books, refreshments, groceries, magazines and newspapers, do your banking and post a letter, without leaving the centre.

The Conference and Reception Centre on Level 2 is equipped with some of the latest technology in catering. It can accommodate functions of from 50 to 450 people, from morning teas, to formal dinners and banquets, wedding receptions, conferences and seminars. Access is easy, either from Level 2 of the carpark (you need never get wet!), or via lift from the ground floor. The wide range of the centre's services is available to the campus community, alumni and the general public. Mrs Elena Di Stefano, the Functions Co-Ordinator, can be reached on (042) 297 833.

Finding Stage 6 is easy. The building is visible from Northfields Avenue, with a wide bridge providing pedestrian access from the road. Vehicles enter the campus via the Western gate and turn right.
As Josie Castle states in her Illustrated History of the University, the greatest rate of progress in new buildings on campus took place in the eighties. It was then that the site became a campus, unified, cohesive and, above all, attractive. In the decade to 1991 six new buildings were completed and the swimming pool was a welcome 'extra'.

Building 40, housing the Faculties of Commerce and Law, was opened by the Governor-General His Excellency Bill Hayden on Friday 11 October 1991. At its meeting on the same day, Council agreed that the new theatre in Building 40 should be called the Hope Theatre. This was only the third occasion in the history of the University that a building has been named after an individual - the first two were the Austin Keane Building, named in recognition of Professor Keane's research and teaching in the Department of Mathematics, and the Michael Birt Library, named after the University's first Vice-Chancellor. The theatre was named in recognition of the outstanding contribution being made to the development of the University by the Chancellor the Hon Dr R M Hope. The Governor-General's announcement of the name of the theatre was met by enthusiastic applause by staff, visitors and students. The program of expansion continues today with Buildings and Grounds having another busy year.

The $7.2m General Science Building (Building 41) was completed in January and the occupants, the Departments of Chemistry, Geology and Physics and the Science Faculty Office, have moved in. The building provides new teaching laboratories for Chemistry and Physics, and office, teaching and research space for the Department of Geology. An Anatomy Laboratory has been constructed in the ground floor area of the west wing at an additional cost of $750,000.

In addition to the latest extensions to the Union described on page 24, the top floor will be fitted out to provide for the Counselling Centre, the Careers and Employment Service and some of the other professional units on campus. This work will proceed during the Autumn Session.

Construction of the new 'Keira View Building' (project budget $13.1m.) has begun. The site is west of the Administration Building in the area previously occupied by the Greenery and the demountables. The building, to be completed early in 1994, will have four levels and provide a larger 'Greenery' facility at the lower ground level; two large lecture theatres (350 and 180 seats) and other teaching space at the upper ground level; and office and teaching space for the Faculties of Law and Education on the two upper levels.

At Campus East, an additional $3.5m student accommodation complex of 115 quality single bedrooms has been completed.
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Mr Yoshihama comes to Wollongong

Kawasaki promotes Japanese course

KAWASAKI City has decided to make a generous contribution to the development of the Japanese language courses at Wollongong University. As part of the sister-city agreement, Kawasaki will second to the Department of Modern Languages at the University an experienced teacher of Japanese.

The first member of staff to come to Wollongong under this arrangement is Mr Seiichiro Yoshihama, who since 1989 has been Supervisor in charge of research at the Kawasaki City Comprehensive Education Centre.

Mr Yoshihama already has experience of teaching Japanese abroad. From 1985 to 1986 he taught in Baltimore, Maryland (USA), where he was given Honorary Citizenship of Baltimore City and Honorary Membership of Phi Delta Kappa. He has also written extensively on education and on political thought.

Mr Yoshihama will be a Visiting Senior Fellow of the University and will make a substantial contribution to the Japanese teaching programme. His salary and airfare are paid for by Kawasaki City.

The initiative for this support came from the Mayor of Kawasaki, Mr Takahashi, when Professor Brian Moloney visited Kawasaki. Details were then worked out in collaboration with Mr Hiromi Ito, who directs the Kawasaki Foreign Affairs Division.

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