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Editor: George Wilson, Tel. (042) 270926

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The Road Ahead...

'...use this University as a resource for life'

One hundred and thirty six students became graduates at the Conferring-of-degrees Ceremony at The University of Wollongong on Thursday October 13. The graduands were the first to take part in such an event in the Sports Hall of the Sports and Recreation Association. The Union Hall, traditional venue for graduation ceremonies, can no longer cope with the numbers involved (1,393 graduates in 1988 as compared with 492 in 1983).

The Sports Hall, its platform with a backdrop of yellow

and blue drapes, was well-suited to the occasion. But the occasion did bring to mind the fact that the dream of a Great Hall must sooner rather than later move into the realm of reality.

The Occasional Address — an extremely well-written address — was delivered by Dr Gregor Ramsey, BSc Adel, DipEd Adel, PhD Ohio State, FACE, FAIM — qualifications highly appropriate to the occasion as well as

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The graduation ceremony — on this occasion held in the Sports Hall of the Recreation and Sports Association



to his role as Interim Chairman of the Higher Education Council of the National Board of Employment, Education and Training.

What follow, then, are points from Dr Ramsey's address which concern this university in particular and some of the changes facing tertiary education in the years ahead. Dr Ramsey said:

'You are a special group because you are graduating at the very end of an era in higher education stretching back more than 25 years, an era which had a number of developmental stages:

- * *the definition of what universities ought to be in an Australian context in the Murray Report of the mid-'fifties — national resources which required national decision making and national funding;*
- * *the definition in the Martin Report of the mid-'sixties of higher education as a binary system with institutions called universities separated from a new kind of institution which was to be vocational, with its prime focus being teaching, the colleges of advanced education in the Martin Report of the early sixties;*
- * *the abolishing of individual student fees for higher education by the Labor Government in 1974.*

'All these decisions were directed at expanding higher education and to making it available to more Australians. The fact that you are graduating today is a tribute to the effectiveness of these policies.

'By the mid-1980s it was clear that the old structures were hampering developments in our higher education system and that the country could not afford the expansion that was needed in higher education if that funding was to come only from Commonwealth Government sources. The rounds of mergers in the early 'eighties which caught up this institution, and the steadily declining levels of funding over the past decade which also affected this institution, are clear evidence that the system was creaking, and that quite dramatic change was needed. An era in Australian higher education was ending and, if I may quote from the Vice-Chancellor's Report in last year's *Annual Report*, he acknowledges we have in higher education entered a new phase:

In the turbulent era which has already begun, now that Western nations have increased the scrutiny and questioning of the usefulness of universities in their present form, not all universities will prosper, but there will be opportunities to be seized.

'The Commonwealth Government's White Paper, giving new policy directions for higher education, clearly took a similar view. Universities will not continue to be funded just because they exist, but because they have something to contribute to the general well-being of the nation, in all its aspects: economic, cultural and social.

'They will be funded for what they do well and will be expected to be entrepreneurial in the best sense of that term in the pursuit of their chosen goals. It is interesting that this university has adopted an approach of declaring its research and teaching strengths, and has been duly rewarded by being selected to have two — albeit one on a

shared basis — of the 15 new Key Centres for teaching and research to be funded this year. The 'Centre' approach, whether it attracts special funding or not, is one I support strongly. It allows a focus on an institution's strengths, provides a structure for entrepreneurship and brings together staff from a range of disciplines to work on specific problems.

'This institution, as a member of the new unified national system of higher education which the Commonwealth is creating, is well placed to exploit the opportunities afforded by the White Paper. The opportunities are now available to institutions to diversify and broaden their role to establish a diversified set of universities more suited to the requirements of the next century than is the more traditional one we inherited from the Murray Report.

'The second stage in the development of higher education over the past 25 years was the establishment of a binary system as part of the Martin Report. This system served us well for 20 years, but the distinctions between

groups of institutions, were becoming increasingly artificial and were no longer appropriate as a basis for funding our higher-education system. The binary division between groups of institutions, at least as far as the Commonwealth Government is concerned, will disappear from the beginning of next year.

'This institution showed that the binary structure could be eliminated and have an overall very positive effect. In 1982 the Wollongong Institute of Education, a CAE, merged with this University. The wisdom of

that decision and its positive effects can be seen in the excellent, integrated campus we now have, the unified approach to meeting the higher-education needs of the region, and the development of quality scholarship across all its fields of study. May I pay tribute to this institution and the way it has developed the concept of holistic higher education, as opposed to a bifurcated advanced and university education we inherited from those earlier decisions of the 'fifties and 'sixties. I have on many occasions used Wollongong as an example of the positive benefits of mergers to form a stronger, more diversified and more responsive institution. I can only share your Vice-Chancellor's target for this University, as it should be for any institution in the unified national system, again from the 1987 *Annual Report*, that the University is well on track to be the best university in the country 'pound for pound...'

'The third developmental stage of higher education over the past 25 years was the removal in 1974 of tuition fees to be paid by students. It is not now news to state that from next year all higher-education students will be expected to make a contribution of \$1,800 toward the cost of each year of their course. This is about one-fifth of the actual cost, and students if they wish may pay this contribution when they are earning more than the average wage, through the tax system. 'So this group of graduates is very privileged. You will be the last to graduate, higher education admission charge notwithstanding, who have not had to contribute since 1974 to the direct costs of your tuition.

Days of celebration

Thursday and Friday October 13 and 14 were celebration-packed days at The University of Wollongong. Thursday's celebrations began at 11.30 am with the opening of the Library extensions. After lunch the Ethel Hayton Mace was presented to the University by Mr George Parianos, Mr Giles Pickford and Mr Gino Sanguinetti (the artist). That was followed by a graduation ceremony for 136 graduands in the fields of Arts, Commerce, Education, Engineering, Mathematical Sciences and Science.

On the Friday morning special awards were made to people from all University levels who had completed 25 years' service.

'We do not know yet what the effects of the contribution will be but the change is important in the funding of higher education. There has been much emphasis in the press on many of the likely negative effects, and I will not draw on those today, but I suspect they will have less effect on participation. What I would like to do is to mention some of the possible positive effects:

* *employers and potential employers may see it as important in attracting good students to pay the contribution and so money from the private sector will flow into education with the attendant possibility for an increased commitment and interest of employers in higher education;*
* *failure will become a costly business for students and this will encourage institutions to do their utmost to assist students to do as well as they possibly can;*

* *costs to students of transferring from one course to another will be high (\$1800 for each year of credit not given) and so sound cross-credit arrangements are likely to follow;*

* *students who are to make a contribution to the costs of their study will be more likely to make sure they are getting full value for their dollar in their tuition;*

* *continuing education will become more attractive as potentials students will take those course elements which are of direct relevance rather than a full course and hence avoid a more costly commitment;*

* *shorter courses are likely to be developed which will prove less costly to students.*

Higher education is entering a new era: one of fewer central controls and greater autonomy but within a framework of greater accountability to the governing bodies of our institutions.

There will be no binary system which artificially separates higher education institutions into two groups: legislated apartheid in higher education will be no more. In future our institutions will be funded on their merits for those things they do well according to their strategic plan. There will be fewer, larger institutions, many of them multi-campus, reaching out to serve a more clearly defined community. And students will make a financial contribution to their own education which must assist in a much more responsive approach to teaching.

The Bradfield Award

Instituted by the Department of Main Roads New South Wales for undergraduate students, the Bradfield Award for 1989 is to encourage the development of engineering talent at the undergraduate level.

The award is open to any undergraduate in any discipline of engineering enrolled at a university in New South Wales and is judged on the bases of a report, essay or model on a topic associated with the theme — The Sydney Orbital. Possible topics could be in such areas as pavements, bridges, planning, traffic studies, traffic control devices, construction equipment, construction methods, environment safety, etc. As stated on the entry form, the competition is one of ideas and vision.

The Award consists of a perpetual trophy, a prize of \$1,000 and the offer of work experience with the Department. Highly commended students will receive certificates.

During the conferring ceremonies Mr Colin Denley was awarded a University Fellowship. A wartime bomber pilot with the RAAF, Mr Denley was shot down in the last months of the war and was behind mesh when peace was declared. He became a lawyer, and over many years has done much for young people and the University.

An honorary degree of Doctor of Science was awarded to Mr Daniel Tague. A Scot born in 1920, he emigrated to Australia in 1961 and has for 50 years worked to improve efficiency and safety in the mining industry. Since his retirement because of ill-health, Mr Tague, whose involvement with the University goes back 20 years, has given much of his time to undergraduate teaching and postgraduate research in the Department of Civil and Mining Engineering.

'Like most proposals for change, once embarked upon, we are not always sure where they will lead. There will no doubt be examples of 'unintended consequences', the bureaucrat's weasel phrase to cope with the unexpected. There were many such 'unintended consequences' of the binary system which is now to disappear. But there can be no doubt that there will be increased opportunities in the new system:

* *for students as the system expands and we bring in more and more young people, and older ones too, from groups who have not traditionally participated in higher education;*

* *for institutions as they grow through the expanding numbers and greater capital being provided over the next triennium: more than \$830 million extra, half of which is for new buildings;*

* *for the private sector and overseas students as we open up our institutions more and more to other sources of funds and broadened functions.*

'Most of all though, there will be greater opportunities for you as graduates: to return and take up opportunities for graduate study and research: to use this University as an educational resource for life. For too long we have thought of the degree as the 'end' of higher education and the point where real work begins. The changes in our society are such that learning must remain a lifelong process and our higher education institutions must be ready to assist you, support you, as you move into employment.'

A meeting for interested students has been arranged by Professor Lewis Schmidt of the Department of Civil and Mining Engineering. It will be held in Pentagon Lecture Theatre 3 on November 3 from 12.30 to 1.30 pm.

Clover Moore to Address University Women

Ms Clover Moore, Independent Member for Bligh and one of the most dynamic members of State Parliament, will be guest speaker at the Annual Dinner of the Illawarra Branch of the Australian Federation of University Women.

The dinner will be held in the Kemira Room of The University of Wollongong Union on Wednesday, November 2, starting with drinks at 7 pm.

Proceeds from the dinner will go towards the establishment of the Ethel Hayton Memorial Fellowship.

Those interested in attending may contact Carmel Pass or Anne Lear on 27 0226 (ext 3226).



At the lectern is Dr Gregor Ramsey, who formally declared the Library extensions open. Flanking him are, on the left, the Vice-Chancellor, Professor Ken McKinnon, and the Chancellor, Mr Justice Hope. On the right is the University Librarian, Mr John Shipp

A library for tomorrow

When the University Library was first opened back in 1976 by Sir Roden Cutler, the then Governor of New South Wales, it was raining and there was a demonstration — a one-man demonstration — going on outside. Or so the Chancellor, Mr Justice Hope, declared at the opening of the new Library extension on the Thursday morning of October 13. Instead of a lone demonstrator today there is, looking out from the foyer into the courtyard, the striking stained-glass window made in the School of Creative Arts by Albi Lenartes.

The extension, now forming a major part of the upper level, is everything a library of today should be. It is light and airy, as though infra-red from the sun was no longer a danger to manuscripts. The University Librarian John Shipp declared (in an extremely light-hearted speech), that he had intended that there should be no natural light at all. So he paid a warm tribute to Professor Dudley Jackson's pressure for windows.

John Shipp talked more seriously about the library of the future and the challenge imposed by the balance between the traditional and the innovative. But the book, he declared, would continue. And, while many future academics and students would access information from their own computers, the library would continue to be the gateway to information.

The library will help not only to find information but signpost the best path to it. In that context the new Library will assist by providing shelving and space for readers but space for also computer laboratories, and so become a sort of learning-assistance centre. Greater space has been allocated to 'non books'. The Library, it is expected, will become a growth area with new technologies.

John Shipp went on to pay warm tribute to such people as the Buildings and Grounds staff and M.S. Wong, to academic and Library staffs and students who had borne the disruption of hammers and saws with stoicism. And he thanked CTEC for the funding which had made a dream reality. The Vice-Chancellor, Professor Ken McKinnon, expressed thanks for forbearance, too.

The opening ceremony was performed by Dr Gregor Ramsey, Interim Chairman of the Higher Education Council of the National Board of Employment, Education and Training. Visibly enjoying the experience of being among those present at the opening, he made a speech in which he drew attention to the groundwork being laid for tomorrow's libraries by him and his colleagues.

The questions being asked were these:

- * to what extent do higher education libraries meet the needs of the higher education system?
- * to what extent are higher-education students using other library systems?
- * who is using the higher-education library system?
- * does library material need to be stored on site?
- * do study facilities need to be on site?
- * what are the new methods of information delivery?
- * what is happening to libraries overseas?
- * what strategies are/can be employed to make information delivery more efficient?

Dr Ramsey would welcome your views...

Sports Talks '88

Members of the Department of Human Movement and Sports Science will be presenting lectures at the Sports Talks '88 Series, co-ordinated by the Illawarra Academy of Sport during October and November. These include Maximising Sports Training and Performance (Dr Frank Pyke), Mental Training and Sports Skill Performance (Dr Mark Anshel), and Immediate Treatment of Sports Injuries (Dr Owen Curtis).

Dr Alistair Boag presented a seminar paper entitled 'Recreation and Leisure — Towards the Future' at the NSW division of the Australian Council for Rehabilitation of Disabled Conference in Sydney during the first week in October. He spoke on the need for a unified profession and for obtaining recognition within a typical organisational structure.

University Long Service Awards



Those honoured for their 25 years of service to the University are, from left, Noel Kennon, John Wells, Rod Hollands, Max Lowrey, Beatrice Henderson, Tom Horner, Bill Upfold, Peter Arnold, Ron Kinnell, Abe Segal, Keith McLellan, Ian Lowe and Peter Bolton

On Friday October 14 the Chancellor of the University, Mr Justice Hope, presented awards to those members of staff, past and present, who have complete 25 years' service with the University. The award is a framed certificate of appreciation. It will in future be presented annually.

The long-stayers are:

Peter Arnold, Department of Mechanical Engineering.

Peter Arnold was appointed as a Lecturer in Mechanical Engineering at the then Wollongong University College on 5 April 1962 after completing a BE Hons in 1961. He gained his PhD in 1968 and was promoted to Senior Lecturer in 1970. He was promoted to Reader at the beginning of 1976 and was appointed to the post of Professor of Mechanical Engineering and Chairman of the Department of Mechanical Engineering from 1 January 1985.

Peter Bolton, Faculty of Science.

Peter Bolton arrived in Australia from London in August 1961 with a BSc Hons (Exeter) 1958 and a PhD (London) 1961. After an initial start as a Senior Teaching Fellow at Monash University he accepted a post as a Lecturer in Chemistry at Wollongong University College on 2 October 1962. He was promoted to Senior Lecturer in 1967, Associate Professor in 1972 and has been Dean of the Faculty of Science since July 1986.

Beatrice Henderson, Student Services Branch.

Beatrice Henderson started in April 1962 at the Wollongong University College as a shorthand/typist. Located in the Chemistry Department she provided support to 19 academics in Chemistry, Metallurgy, Physics, Geology and Biology. She subsequently held a number of appointments as a Secretary in Chemistry, Administration, Information Office, Development and

Planning, Friends of the University, and European Languages. She gained a BA Hons in 1986 and since May 1987 has been working as a Graduate Assistant in Student Services.

Rodney Hollands, School of Creative Arts (retired).

Rod Hollands commenced with the Wollongong Institute of Education on 30 January 1962. By 1975 he was Principal Lecturer in Music in the School of Creative Arts. Rod retired on 28 January, 1988.

Thomas Horner, Department of Mathematics.

Tom Horner began with Wollongong University College as a Lecturer in Mathematics on 23 May 1961. He held a BSc Hons, a DipEd and subsequently a PhD. Promoted to Senior Lecturer in 1974, he went on to act as Head of the Department of Mathematics on a number of occasions before being appointed Head of the Department of a two-year term from January 1987.

Noel Kennon, Department of Metallurgy and Materials Engineering.

Noel Kennon began as a Laboratory Assistant with the School of Metallurgy of the then NSW University of Technology in 1956. He was appointed a Teaching Fellow in 1958, a Technical Officer in 1962. He completed an MSc in 1960 and in July 1962 accepted a post as Lecturer in Physical Metallurgy at Wollongong University College. His PhD was conferred in 1968. In the same year he was promoted to Senior Lecturer and in 1974 was promoted to Associate Professor. From January 1985 until December 1987 he was Head of the Department of Metallurgy.

Ronald Kinnell, Buildings and Grounds (retired).

Ron Kinnell started as a Laboratory Assistant/Technical Officer in Training with Wollongong Technical College in April, 1954. Then and subsequently as a Technical Officer he worked in

General Notices

Giant Resources Ltd Donates Integrated PC-Clone Software to The University of Wollongong



At the handing-over ceremony are, from left, Dr E.Y. Baafi, Dr I. Porter, Professor Lewis Schmidt, Head of the Department of Civil and Mining Engineering, Mr Bruce Kirk, Principal Geologist, Giant Resources Ltd, Dr N.I. Aziz and Mr Ken Moule, Manager, Mining Systems, Mincom Pty Ltd

Giant Resources Ltd, an Australian-based gold-mining company, has donated an integrated ore-reserve evaluation computer-software package, which has a market value of \$27,000, to the Department of Civil and Mining Engineering, in The University of Wollongong.

The software was presented to the Department by Ken Moule of Mincom Pty Ltd, and Bruce Kirk of Giant Resources Ltd MINCOM, an Australian agent for the software, provided a site agreement based on a Giant Resources Ltd recommendation that Wollongong University would be an appropriate place for the software to be used initially for mining engineering education and research.

Ore-reserve evaluation and mine planning involve the sequential analysis of geological, structural and economic

data. The starting point of the process is the evaluation through basic statistical and geostatistical analysis of exploration data. After ore-reserve calculation, detailed mine-planning and economic analysis can be performed. The combination of PC-XPLOR and PC-MINE software packages provides an extensive suite of integrated modules designed to evaluate an orebody both efficiently and accurately. PC-XPLOR provides powerful and flexible database management, graphical display and analysis of exploration data.

Following on from the database system provided by PC-XPLOR, PC-MINE provides an integrated environment for both two- and three-dimensional orebody modelling, together with mine design and scheduling.

PC-XPLOR and PC-MINE will be excellent tools to assist mining-engineering students to plan and to evaluate economically an orebody. Both packages will undoubtedly open various avenues of applied research work in mine planning and development within the Department of Civil and Mining Engineering at Wollongong.

An Active Human Movement and Sports Science

Staff members of the Department of Human Movement and Sports Science presented papers at the Annual Meeting of the Australian Sports Medicine Federation held in Sydney in October. These included:

Dr Karen Chad on Recovery of Oxygen Debt in Trained and Untrained Individuals; Dr Chris Hallinan on Aboriginal Rugby League Players: Maximising Participation and Minimising Involvement; and Dr Peter Milburn on The Rugby Tackle — A Time for Review.

Associate Professor Frank Pyke presented a weekend workshop on fitness testing to members of the health and fitness industry in Darwin in early October. Participants included community-fitness leaders and employees of the local branch of the National Heart Foundation. While in Darwin Professor Pyke also gave an evening seminar on exercise in hot conditions. The seminar was attended by members of the medical and para-medical professions and the general community.

Long-service awards

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the Department of Mechanical Engineering until transferred to the Maintenance Workshop in 1964. He became a Professional Officer in 1965 and Engineer in 1971. Ron remained the University Engineer until his retirement in July 1988.

Ian Lowe, Academic Services Branch.

Ian Lowe started in October, 1962 as a clerk with the Wollongong University College. He was worked in a number of areas including finance, buildings and grounds and, since 1980, in the University's Registry.

Maxwell Lowrey, Department of Civil and Mining Engineering.

Max Lowrey had a BE Hons in Civil Engineering when he was appointed as a Lecturer in Mechanical Engineering at the Wollongong University College in April 1962. In 1976 he was appointed Senior Lecturer in the by then separate department of Civil Engineering. His PhD was conferred in 1977 and in May 1988 he accepted the additional role of sub-dean in the Faculty of Engineering.

Keith McLellan, Department of Education.

Keith McLellan joined the Wollongong Institute of Education in January, 1962. He is a Senior Lecturer and sub-dean of the Faculty of Education.

Abraham Segal, Department of Physics.

In the early 1950s Abe Segal worked as a Lecturer in Physics and Mathematics at the Gordon Institute of Technology (now Deakin University). He subsequently took a post as Lecturer in Physics and Mathematics at the Broken Hill Division of the University of NSW before coming to Wollongong as a Lecturer in Physics in February 1960.

Robert Upfold, Department of Civil and Mining Engineering.

Immediately after graduating with a BE in 1954, Bill Upfold took a post as Lecturer in Mechanical Engineering in the NSW University of Technology at Wollongong. He was promoted to Senior Lecturer in March 1963 and gained a PhD in 1969. In 1973 he was promoted to Associate Professor.

John Wells, Department of Physics.

John Wells began as a Laboratory Craftsman at the Wollongong University College in November 1962. He was responsible for various electrical maintenance and installation work. John subsequently became, in 1967, a Laboratory Assistant in Physics. He was later promoted to Laboratory Technician and then to Senior Technology Officer.

Ethel H. Hayton Mace for University



Pictured at the presentation of the mace are, from left, Mr George Parianos, The Chancellor Mr Justice Hope, Mr Gino Sanguinetti (artist and craftsman) and Mr Giles Pickford

The late Ethel Hayton at the time of her death had intended to present the University with a mace to be carried at formal ceremonies by the Esquire Bedell (in the case of The University of Wollongong Mr Ian Lowe). The mace was used for the first time at the graduation ceremony on October 13. It was paid for by Mr George Parianos and Mr Giles Pickford on behalf of the Friends of the University. The mace is manufactured in stainless steel, has its head in a shape symbolic of the flower of the Illawarra flame tree. Inset, as a part of the design, is a carved piece of the campus figtree

Mozart (and others) for lunch

The Canberra School of Music Wind Ensemble will give a lunchtime concert (12.30 pm to 1.30 pm) on Wednesday October 26. The concert will be held in the University Amphitheatre, or in the Music Centre Auditorium if the weather is bad.

The program will include 'Sevenade' by Mozart.
Admission is free; all welcome.

EEO news...

Thanks, Electrical and Computer Engineering

Implementing Equal Employment Opportunity on campus has always been a team effort. Lots of people give up their time on committees or give of their expertise or support in one way or another.

I thought the recent efforts of the technical staff in Electrical and Computer Engineering deserved a special mention. Five electric motor scooters have been painstakingly tested for use by immobilised students, staff or visitors to campus. These efforts have provided excellent evaluations of the different models in regard to safety, design, durability, ease of maintenance and general performance.

Craig Wallace, resident Bachelor of Arts student and friend of EEO, volunteered to be our guinea pig 'in the

Summer Session

The University of Wollongong offers a wide range of courses during summer for intending students, continuing students and the general public.

* Fast-track your degree

Credit Courses — for University and CAE students with the required prerequisites — Computing, Engineering, Languages, Philosophy, Creative Arts, Writing, Literature, History, Science and Technology, Economics, Management, Film and Television. For further information contact Harry Alla (042) 27 0925.

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General Interest Courses — Languages, Learning Skills, Computing, Management, Creative Arts, Geology, Engineering; in conjunction with Wollongong Uniadvice Limited.

Residential accommodation and child-care facilities are available. For a brochure complete the slip below and return to:

The University Secretary, The University of Wollongong, PO Box 1144, Wollongong, NSW 2500.

Please send Summer Session information

Name:

Address:

field', abandoning his hand-powered wheelchair for the zippier motorised models.

Staff in the Administration Building also helped out by volunteering to ride the scooters around the corridors at every opportunity; despite some near demolitions of photocopiers — all survived.

The selected model will now be recommended for purchase by the University, and will represent another step forward in the process of providing affirmative action for people with physical disability. Special thanks to Frank, Ron and Joe.

Kathy Rozmeta
EEO Co-ordinator

Seminars

SDI: the Social Shaping of a Nuclear Umbrella

Speaker: Ian McNicol, Department of Science and Technology Studies.

Date: Wednesday October 26, 1.30 pm.

Venue: 19/2061.

School of Learning Studies Staff and Postgraduate Series

All seminars in Room 21.104 (Meeting Room),
12.30–1.30 pm

October 26

Speaker: Michael Stone, School of Learning Studies
Topic: Post-structural criticism and children's books.

A weekend colloquium for Masters (Hons) and Doctoral students will be arranged for November 5 and 6 (still to be confirmed).

Further information contact Bill Winsler, School of Learning Studies, ext 3963.

Seminars

Department of Biology Seminar Series Session II

The Department of Biology seminars are held at The University of Wollongong on Wednesdays at 3.30 pm in Room 19, Building 35.

October 26

Speaker: Mr Douglas Benson, Senior Botanist-ecologist, Royal Botanic Gardens, Sydney.

Title: The vegetation of Sydney past and present.

November 2

Speaker: Mr Troy Collie, University of Newcastle.

Title: The ecology of the evening butterfly.

Department of Philosophy

Department of Philosophy Seminar Room, North Wing, Social Sciences Building, The University of Wollongong, Northfields Avenue, Wollongong (Building 19, Room 1034).

Friday, October 28, 2.30 pm

Topic: *Land Rights*.

Speaker: Janna Thompson, Australian National University.

Women's Studies

Date and time: Wednesday, October 26, 6.30 pm.

Venue: 19.1034

Topic: *Teaching Women in Political Theory*

Speaker: Dr Helen Pringle, History and Politics.

Staff and students welcome. Inquiries, Sue Uniacke, Philosophy, ext. 3604.

Department of Computing Science

Date: Friday October 26, 12.30 pm.

Venue: Room 15.2061

Topic: *Belief Revision — the Gardenfors Approach*.

Speaker: Associate Professor Norman Foo, Basser

Department of Computer Science, University of Sydney.

Date: Friday October 28, 12.30 pm.

Venue: Room 15.206

Topic: *Chemical Structure Editor*.

Speaker: Mr Wrekso D. Wilbowo, (Honours Student),

Department of Computing Science, The University of Wollongong.

Date: Friday October 28, 1 pm.

Venue: Room 15.206

Topic: *Development of a 'Chemical Data File' System*.

Speaker: Mr Anwar Djuhartono (Graduate Student),

Department of Computing Science, The University of Wollongong.

Date: Friday November 4, 12.30 pm.

Venue: Room 15.206

Topic: *Software Environment for Frame-Based Systems*.

Speaker: Dr Jerzy J. Korczak, Department of Computing Science, The University of Wollongong.

Visitors parking on University grounds will be charged a parking fee of \$1.00. This fee will be reimbursed by the Department.

Alex Zelinsky, Convenor.

Marketing Skills for Entrepreneurs

A one-day seminar on professional selling skills has been arranged for staff from Centres and other organisations on

campus to acquire skills to market effectively their expertise in an increasingly competitive environment.

Organised by the ITC, TASC and Uniadvice the program will include a series of videos on 'Why People Buy', 'Planning for Success' and 'Basic Selling Skills', as well as information from Richard Denney, one of the UK's most sought-after sales trainers. There will be opportunity for discussion and feedback.

Date: October 27

Venue: Illawarra Technology Centre

Cost: \$80 per participant or \$100 for two participants from one unit or Centre.

Further information and registration forms — Graham Frost (Uniadvice) ext 3076 or Margaret Voorwinden TASC ext 3639.

Geography Department Staff and Visitors' Series

Room G027, 12.30 to 1.30 pm each Thursday.

October 27

Speaker: Dr Hilary Winchester, Geography Department, The University of Wollongong.

Title: *Marginal groups in cities: the case of Paris*.

November 3

Speaker: Mr Peter Nielsen (DPW Sydney)

Title: *Time series measurements of watertable fluctuations through a foredune at Dee Why*.

Department of Physics

Speaker: Dr S. Shanahan, Department of Physics, The University of Wollongong.

Time: Thursday October 27 at 12.30 pm

Place: Physics Lecture Theatre (18.118)

Topic: *Laser Based Sensors for the Monitoring of Gas Compositions and Concentrations*.

Department of Economics

Tuesday November 1:

C. Nyland - The rationalisation of standard time schedule in the USA, 1890-1940.

All welcome!

Please bring your lunch to room 19.2100 at 12.30 pm.

The seminars are informal and speakers will report on completed research as well as work in progress.

If you would like to present a seminar or nominate speakers from off-campus, please contact Charles Harvie (ext 3702) or Sandra Mark (ext 3654).

Geography Department Student Series

Room G027, 12.30 to 1.30 pm each Wednesday.

November 2

Speaker: Ian McMaugh

Title: *Landslip associated with the 1984 Dapto flood* (MSc progress report)

Date to be determined

Speaker: Jerry Maroulis

Title: *Fluvial sediment transport in the Channel Country of Queensland; a flume study* (MSc progress report).

Centre for Work and Labour Market Studies

Date and time: Friday November 4, 9.30 am to noon.

Venue: Building 19, room G005.

Topic: *Evaluation of Changes in Work and Management Practices*.

Inquiries: Frances Sullivan, ext 3983.