

THE UNIVERSITY OF WOLLONGONG **CAMPUS NEWS**

VOL. 6 NO. 3.

21st MAY 1980.



The university is moving into new territory and it's great news for many research groups.

The university has been granted use of Lot 4 Robson Road for 15 years under permissive occupancy terms. After campaigning for more than three years for use of the land, the university was told last month by the Department of Technical and Further Education that it had formal approval to use the 27.39 hectare (60 acres) site west of campus in the Mt. Keira foothills.

The good news was welcomed by various departments which have been discussing and planning use of the land for the past few years.

University Research Grants Committee Secretary Mr. C.E.J. Ross is now urging people interested in starting research programs on the site to formulate their programs.

Properties Officer Mr. K. D. Kimber says such programs should detail specific areas to be used for research purposes, work required to establish the research area, funding requirements, time scales for such work and other necessary information.

Lot 4 Robson Road, pictured from the western side of the campus

University gains new territory

Under the formal approval, the university could immediately start controlling access to the land and weed infestation and halting the spread of erosion.

Landscape supervisor Mr. Leon Fuller has been asked to advise on work and to help departments where he can with detailing research programs, especially those which involve his section.

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Research work is expected to start next year when grants and funding are arranged. Mr. Fuller is impressed with the land's possibilities, both for research and landscape work. "It's got great potential," he said.

The estate division will look after all areas not directly used for research and teaching. This probably will include development such as tree planting and soil work, according to Mr. Fuller.

The university's Biology Department and Geography Department both have been keenly interested in the land.

The Biology Department has been planning to use the land to extend the studies of Dr. D. J. Campbell on the distribution and behavior of the cricket *teleogrillus commodus*. Field studies and natural and managed regeneration also have been projected.

Dr. G. C. Nanson, of the Geography Department, has proposed a rainforest project for the land. The department has been researching into the distribution and natural characteristics of rainforest in Illawarra. The land will complement the study of natural rainforest and provide much needed experimental conditions for monitoring the viability and growth rates of selected rainforest species. It also will provide important information on cultivation of rainforest trees for horticultural purposes and be a basis for studies of natural regeneration of forest in an "old field" situation.

Big boost for research work

The land adjoins Lot 3 of the university and Lot 2 of the Technical College. The western boundary adjoins land owned by AIS which has been declared a bird sanctuary and set aside for inclusion in the proposed Escarpment Park.

Part of the land eventually may become a site for affiliated colleges and halls of residence, as suggested by the then NSW Education Minister in 1967 when he wrote to the University of NSW about the land.

A plan for student accommodation in the south-west corner of the land, the most accessible and easiest location to service, was prepared in 1974.

But there did not appear to be any prospect of building more student accommodation for many years, university Vice-Chancellor Professor L. Michael Birt said last year. Such an eventual use, however, would be compatible with use of the area for research projects, he said.

Leading Japanese engineer visits

A link with Japan was cemented last month when Mr. Satoru Ohya, director and chief engineer of OYO Corporation, Tokyo, visited Wollongong University.

Mr. Ohya's primary purpose in coming to Australia was to visit the university and see Dr. Robin Chowdhury, of the university's Department of Civil Engineering.

Dr. Chowdhury is a member of the International Subcommittee on Site Investigation, a subcommittee established by the International Society of Soil Mechanics and Foundation Engineering, and Mr. Ohya is secretary of the subcommittee.

Mr. Ohya has met subcommittee members all over the world since the subcommittee was established in 1977 and one of the reasons for his visit was to brief Dr. Chowdhury on the subcommittee's work. They also discussed various site investigation problems and practices in many countries and examined details of a proposed three-part site investigation manual.

The investigation manual will discuss common problems all over the world and particular problems in certain countries. Dr. Chowdhury and other subcommittee members in many countries are now distributing questionnaires among soil and engineering experts and inviting them to prepare selected papers on site investigation practices in their countries.

These will be vital to the three-part report of which the first volume is scheduled to be completed next year. A subcommittee meeting is scheduled at the time of the 1981 International Conference on Soil Mechanics to be held in Sweden.

The manual will be a most important exchange of information among soil experts and provide new insights into various geotechnical problems.

Mr. Ohya met Department of Civil Engineering Acting Chairman Associate Professor R. W. Upfold and visited the Australian Iron and Steel Rock Mechanics office at Tarrawanna where he met one of Dr. Chowdhury's part-time PhD students who is working on many mining projects as part of his job.

Dr. Chowdhury said Mr. Ohya was most impressed with the university campus, especially the location.

Mr. Ohya came straight to the university after landing in Sydney. He was accompanied by a representative of Sydney consulting engineering firm McMahon, Burgess and Yeats during his Wollongong visit and then returned to Sydney for talks.

Dr. Chowdhury says Mr. Ohya's visit has given him the impetus to help finish the task of compiling material for the investigation manual.

Dr. Chowdhury also is working on researching Reliability Analysis in Geotechnical Engineering, a project for which he received an ARGC grant late last year.

Commonwealth appointment

Mr. Anastasios Christodoulou, CBE, MA (Oxon), Secretary of the Open University since 1969, will succeed Sir Hugh W. Springer, KCMG, as Secretary General of the Association of Commonwealth Universities when the latter retires on 30 September, 1980.

Born in Cyprus in 1932, Mr. Christodoulou attended St. Marylebone Grammar School in London and later held a classical scholarship at The Queen's College, Oxford, where he graduated in 1955 in Philosophy, Politics and Economics. He joined the Overseas Civil Service in 1955 as a member of the first Devonshire Course for District Officers and served the Government of Tanganyika for the next six years, first as District Officer and later as District Commissioner and Magistrate; he still speaks Kiswahili fluently and is competent in modern Greek.

His work for the Open University was recognised in 1978 by his appointment as Commander of the Order of the British Empire.

In his new post Mr. Christodoulou will draw on a deep interest in the Commonwealth which arises from his birth and public life overseas, and on a wide knowledge of public and university administration. His experience of university work is enriched by experience in the development of the innovative Open University, an institution which has had such a considerable influence on educational methods in all parts of the world. He has a special interest in the role of distance teaching methods in the development of the third world and has been active in contact and negotiation with educational and administrative organisations in Africa and Latin America as well as in the United Kingdom and Europe.



Fellow workers drink a farewell toast to Peg Errey

Peggy Errey retired last month - and the University of Wollongong and the city's trade union movement made sure it was a farewell to remember and a fitting tribute to a colorful and much-loved identity.

For years, Peg has been a popular figure among unionists, university staff, educationists and women's rights campaigners.

So when she retired on Wednesday, April 2 after 18 years as cleaning supervisor at the university it was the end of a notable and enjoyable association - especially because Peg was a driving force behind establishing the university.

She was one of the people who walked around city streets collecting signatures to a string of petitions sent to State and Federal Governments pleading for a university for Wollongong. She was working on the university site even before it was a university.

"I've got on well with everyone here. They've been great people to work with," Peg surrounded by friends, said at a farewell party in her honor organised by university staff. "I'm very sad to be leaving."

Peg had quite a round of send-offs - Vice-Chancellor Professor L. Michael Birt hosted a small private party for her so senior academic staff could pay their tributes and university cleaners insisted on their own special farewell to Peg in the university's sports pavilion. The pavilion was packed as the champagne and beer and toasts flowed.

Peg, who is Miscellaneous Workers' Union local branch president, was laden with gifts after her farewells. One especially stopped her in her tracks - life membership of the MWU, given by organiser Mr. Ian West.

Naturally, Peg is determined her retirement will see little reduction in her interests; if anything she will have more time to pursue her extensive union, ALP, education and women's issue work. She will continue working for the MWU, helping the Women's Centre in Stewart Street, and serving the Working Women's Charter and the Union of Australian Women. She also plans to devote more time to reading, especially history.

Peg came to Wollongong from Gippsland.

Peg's uni, friends say goodbye

One of the most effective ways to increase the student intake at the University of Wollongong would be to launch a campaign to attract overseas students, according to the heads of two departments.

Professor Juris Reinfelds from the Department of Computing Science and Professor Lachlan Chipman from the Department of Philosophy said the University should not delay such a campaign and should also work on the problem of accommodation for overseas students.

"There are three problems - where the students could live, the status of this University and finance," Professor Reinfelds said.

He said it was essential to increase the exposure of the University of Wollongong in the newspapers of countries that could be a source of students. Malaysia and Hong Kong were two examples of places that could yield students very quickly.

Professors want more students from overseas

"We can also supply the Australian High Commission in suitable countries with brochures on the University and find some way of letting foreign students know they would be very welcome here. For example, undergraduate scholarships could be organised to offset visa fees," Professor Reinfelds said.

He said there were at least 18,000 students waiting for admission to universities and would establish a pattern of going to other countries such as Canada if not offered alternatives.

For accommodation there were possibilities - one was to interest private enterprise in building hostel-type accommodation that could also cater for holiday crowds in the summer months, and the other was to gain use of the Fairy Meadow Migrant Hostel which was largely vacant.

Professor Chipman pointed out that overseas students would most certainly bring money into the region as well as a stream of visitors from their home countries.

He said the small size of Wollongong and the newness of the University should not be a deterrent to the plan of making Wollongong a significant university town.

"University towns are traditionally small Oxford, Cambridge, Yale, Harvard, Heidelberg, all of these famous towns are small so Wollongong ought not to worry. Nor should the industrial nature of the town be a worry. Wollongong has the potential to be as intellectually and culturally stimulating as any place in the world," Professor Chipman said.

AAUCS POST

Professor Juris Reinfelds, Professor of Computing Science at Wollongong University, has accepted an invitation to be the university's Academic Liaison Officer for the Australian-Asian Universities Co-operation Scheme (AAUCS).

Professor Reinfelds has recently returned from an AAUCS-sponsored visit to the University of Pertanian in Malaysia, where he is acting as an adviser and consultant on development of the Computer Science Teaching and Research Programme.

ENROLMENT LESS THAN AVERAGE

The table below shows the number of overseas students in Australian Universities and the percentage of these students in the total enrolment.

Wollongong University's enrolment of these students is less than half of the national average on percentages and on total numbers the university has less than one-sixth of the national average of 378 foreign students per institution.

Because of the large increases in fees imposed on Asian students by the Government in the United Kingdom (the traditional place where students from Malaysia, Hong Kong and India go for their tertiary education) these students may well be looking for universities that are cheaper and nearer to home.

The U.K. fee increases are far larger than those recently made by the Australian Government.

Overseas students enrich a university by widening the horizons of the Australian students. It is also one of the most effective forms of foreign aid. There is an old Asian saying "If a man is starving, don't give him a fish, give him a net." Perhaps the University of Wollongong should investigate ways of increasing its intake of Asian students.

STUDENTS GIVING OVERSEAS HOME ADDRESS AT TIME OF FIRST ENROLMENT

SOURCE: A.B.S. (1979) STATISTICS (MICROFICHE TAB. 13A, F5)

UNIVERSITY	OVERSEAS STUDENTS	TOTAL ENROLMENT	% OF TOTAL
N.S.W.	1,441	18,466	7.8
Monash	1,335	13,910	9.6
Deakin	826	4,403	18.8
Melbourne	816	15,943	5.1
Adelaide	624	8,894	7.0
Sydney	531	17,345	3.1
Western Australia	358	9,639	3.7
Queensland	306	18,208	1.7
La Trobe	219	8,709	2.5
Newcastle	144	4,364	3.3
Tasmania	129	3,435	3.8
Macquarie	113	10,493	1.1
New England	76	8,383	0.9
James Cook	75	1,896	4.0
Wollongong	59	2,797	2.1
Griffith	18	1,617	1.1
Murdoch	18	2,361	0.7
Flinders	14	3,946	0.3
A.N.U.	0	6,001	0.0
Total:	7,102	160,810	4.4%

LIBRARY SERVICE



Professor Reinfelds

He said two strong factors were already operating in Wollongong's favor as far as attracting overseas students was concerned. The city was already cosmopolitan and the university had departments that specialised in the kind of knowledge many Asian countries vitally needed.

"These specialised areas can be developed and highlighted to promote Wollongong as a university city - engineering and computing science spring to mind. These departments have already distinguished themselves," Professor Chipman said.

He said it was most important that the Government did not increase fees for overseas students and preferable that the payment of fees be dropped.

"We're losing students by making them pay fees - many go to Moscow instead where they are not charged for their courses. In Australia those students would not only bring in needed student numbers, they would gain what would have to be a more liberal education."

The National Library wishes to hear from organisations able to provide details of technical reports or conference papers for inclusion in *Australian Scientific and Technological Reports* (AUSTRE).

Australian Scientific and Technological Reports (AUSTRE) is an information service which aims to improve knowledge of Australian technical innovations. It does this by providing information about reports, conference papers and higher degree theses written in Australia. AUSTRE provides information on documents in most areas of science and technology. However, it does not attempt to cover subjects such as agriculture, earth sciences, roads or medicine which are indexed by other Australian services.

A printed version of *Australian Scientific and Technological Reports* (AUSTRE) has been published every two months since July 1978, and usually runs to about 300 pages containing about 600 references. AUSTRE has published details of 3,516 documents and the 1979 file has now been made available to AUSINET in computer searchable form. Future issues of AUSTRE will be forwarded to AUSINET each two months.

Commencing with volume 2, 1979, AUSTRE will be cumulated annually on COM microfiche. The COM cumulations, to be called AUSTRE ON COM, will contain full details of all documents announced in AUSTRE during the year together with Author, Organisation, Report Number and Subject Indexes and a list of Location Codes Used. The COM cumulation of AUSTRE volume 2, 1979, will be available from the Sales and Subscriptions Unit soon at a price of \$6.00.

AUSTRE is a co-operative project of the Australian Industry Information Network, and although project management is vested in the National Library, data collection is carried out by a network of co-operating libraries, organisations and individuals.

If you or your organisation collect or prepare scientific or technical reports of conference papers we would be grateful if you could provide details of these publications for inclusion in AUSTRE. Documents need not have been formerly published, and we are keen to obtain details of limited distribution documents even if the source organisation wishes to retain control of documents and restrict document availability. If you are interested in providing information for publication in AUSTRE or if you require any other information about AUSTRE please contact:

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Telephone: (062) 62 1632
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In addition to providing details of the publication, it is hoped that organisations will be able to provide copies of documents for the National Library collection. Documents should be sent to:

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International news

Australian men and women in mid-career with significant experience in the subject of a particular seminar are invited to participate in the programs of the Salzburg Seminar in American Studies. Each year the Seminar offers seven or eight sessions, lasting from two to three weeks, each on a different subject and each with a different faculty and group of Fellows. All sessions are held at Schloss Leopoldskron, Salzburg, Austria. Further information contact the AVCC or Sir John Bunting, KBE, 8 Arnhem Place, Red Hill, ACT, 2603.

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A seminar on "Prince Albert and the Victorian Age" will be held at the Bayreuth University, Germany, on May 22 and 23. The long-term objective of this seminar is to establish a Prince Albert Foundation which would promote German and English research in the field outlined by the seminar. The University would like to contact Australian academics who might be interested in participating in this seminar. If you are interested in attending please write direct to Mr. J.A.S. Phillips, Universität Bayreuth, Bayreuth, Munzgasse 9, Germany.

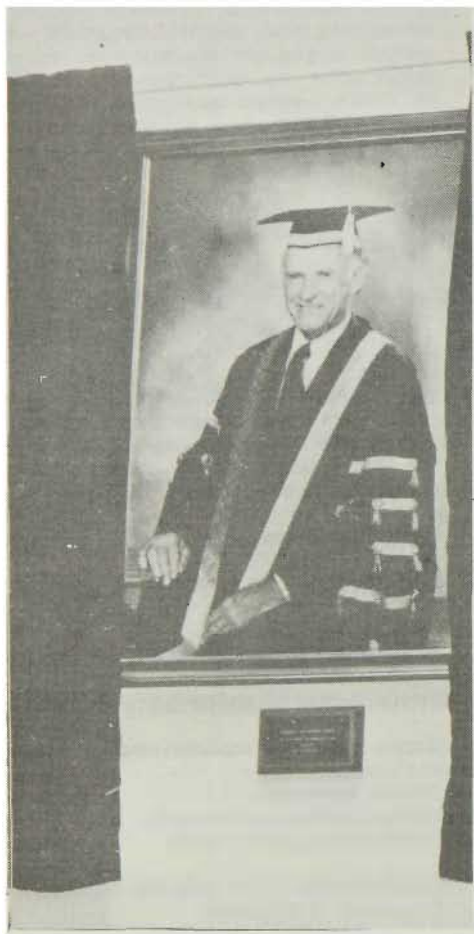
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The Secretary, Centre for International Co-operation and Services, The Open University, Walton Hall, Milton Keynes, MK7 6AA, United Kingdom, has sent information about the Centre and a list of recent publications.

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If you would like further information, contact the Secretary, AVCC, P. O. Box 1142, Canberra City, ACT, 2601; or write direct as indicated.

PHOTOGRAPHIC PORTRAITS UNVEILED



The Chancellor of The University of Sydney, Sir Herman Black, attended a meeting of The University Council on 7th March, 1980 for the purpose of unveiling two new photographic portraits in the Council Room. Sir Herman is pictured here with the portraits of the Chancellor The Hon. Mr. Justice Hope CMG (left) and the Vice-Chancellor Emeritus Professor L. Michael Birt CBE (above).

The university's Schools Liaison Officer Mr. Tom Moore is pleased with the continuing success of the university's information sessions for parents of new students.

About 90 parents and relatives of new students attended the latest information session in the Pentagon on Monday, April 21 and 20 university staff attended.

Academic Registrar Mr. B. C. Moldrich chaired the session. Speakers included the Vice-Chancellor Professor L. Michael Birt, Department of Sociology Senior Lecturer Mr. R. Horne and University Counsellor Mr. Greg Hampton. After the speeches and a question and answer period, staff and parents had supper in the Pentagon foyer. Many parents and relatives took the chance to speak to academic staff.

Most of the university's students are from homes with no first-hand contact with the university, according to Mr. Moore. A major aim of the evening was to introduce parents to the campus and some staff and to give them something of staff's preception of the difficulties experienced by new students.

"All too often in the past, parents have come on to campus for the first occasion when their sons and daughters graduate," Mr. Moore said. "We want to see them here and make them feel welcome much earlier than that. We also want to put them in touch with staff who may be able to provide them with information they seek."

Many parents and relatives who attended the information session came from as far away as Canberra and Sydney suburbs in addition to those from the Illawarra. Apologies were received from as far away as Cairns.

Parent nights popular

Schools Liaison Officer Mr. Tom Moore is available to visit schools in the South Coast, Cronulla-Sutherland and Campbelltown regions. Careers Advisers who would like him to visit their schools should ring Mr. Moore (042) 28-2928.

Wollongong University is well on the way to having its own microwave hologram receiver on campus and joining exclusive company.

Dr. Frank Paoloni, of the university's Electrical Engineering Department, recently was awarded a \$1600 grant from the Radio Research Board towards building the receiver.

The grant brought total funding for the project to \$5200. Dr. Paoloni previously had received a university research grant and a grant from the Australian Research Grants Committee.

A microwave hologram receiver studies an object on a microwave frequency, analyses the data in a computer and then produces it on a computer screen or graphics terminal.

Dr. Paoloni's receiver will be the only one in Australia. He has been collecting components for the project for the past two years.

He brought back many components in March when he returned to the university from Princeton University where he had been invited to take part in a thermonuclear experiment.

Dr. Paoloni's interest in microwave hologram receivers follows on from four years he spent at Princeton in the mid 1970s. He went to Princeton after gaining his PhD from Sydney University in 1972 and spending a year at Texas University.

While studying at Princeton, he worked on experiments with microwave heating of a thermonuclear plasma. Thermonuclear fusion is one of the world's big hopes as a future power source to replace nuclear power. Princeton University is the leading laboratory in the world for this type of research.

Microwave researcher wins grant

Work on the project at Princeton began with a \$30 million machine then developed into a \$250 million complex. The next step in the university's research will be a unit of power station size.

Dr. Paoloni says thermonuclear research is heavily funded in America, Europe and Russia and has excellent potential as a power source. It is a practically clean energy source - although expensive and with limited radioactive byproducts - but he predicts it could become the world's dominant source of energy within 100 years.

He has a graduate student working with him on the microwave hologram receiver.

Dr. Paoloni will use the receiver mainly to diagnose three dimensional objects, for remote sensing, analysis of antennas and pattern recognition. The receiver also has long-term medical applications.

Dr. Paoloni came to Wollongong in February, 1978.

ANNUAL SCHOOLS DAY ON IN JULY

The university's annual Schools Day will be conducted on Friday, July 18.

This year's Schools Day will be the seventh conducted by the university's Schools Liaison Officer and is expected to again attract many Year 12 students from all over the Illawarra.

The students are invited to attend lectures, films, tours and demonstrations presented by the departments in which they are interested. The university library staff also will conduct tours and University Counsellor Mr. Greg Hampton will speak to the students.

A Students Representative Council executive will speak about the council's activities and a representative of the Tertiary Education Assistance Scheme will be available to advise on student finance.

The Schools Day will start at 9.30am and finish at 3.30pm. Further program details will be given to schools soon.



Union Hall gets new colonnade

The colonnade that has been built on to the Union Hall was used for the first time on a pleasant summer's day in February. The Lions Clubs held its national convention at the University on the weekend 16-17 February and the Lions are pictured here preparing for dinner under a canopy affixed to the colonnade. The Union Hall was used for dancing.

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GRADUATES ASSURED OF NEED FOR SKILLS

Developments already started or being planned in Australia would generate a great demand for skilled people, Sir Ian McLennan told graduates on the opening day of the graduation ceremonies.

"But Australia must also help its neighbours and this will create still further opportunities for you," he told commerce, engineering and metallurgy graduates, their families and friends and university staff and students in his occasional address.

Sir Ian, former BHP chairman, is an honorary graduate of Wollongong University and his address was a positive assurance for the 340 students who received degrees in the three graduation ceremonies.

Commerce, engineering and metallurgy degrees were conferred on Thursday, May 1. Arts and education degrees were conferred in the morning session on Friday, May 2 and arts, mathematics and science degrees were conferred in the afternoon session on Friday.

Sir Ian said that amid the micro-processor revolution, Australia should use its good fortune not only for its own benefit but for the whole world.

He said the four main problems confronting the world were overpopulation, the risk of disastrous use of nuclear weapons, environmental threats and energy shortages.

All were man-made problems, which gave the hope they would be amenable to man's efforts.

Sir Ian said the technological advance which had been accelerating since World War 2 now was focused on microprocessors - the microminiaturised integrated circuits with potential applications that boggled the imagination.

In addition, there were major developments in lasers, biology and chemical engineering.

"Little wonder it is the average citizen is confused and unsure of the future," He said.

"Will technology take over jobs and create further unemployment? What contribution will these new technologies make to solving the world's problems?"

Sir Ian said demand for a better life was strong throughout the world, but its greatest expression was in underdeveloped countries.

Australia was close to many of these countries and their need for technological help was more attuned to what Australia could provide than to the most advanced technological societies of the US and Europe.

"I'm sure Australia will more and more play its part in the development of countries of our north and north-west, including, of course, that awakening giant China," Sir Ian said.

He said he developed his theme for the address largely to assure those at the ceremony there would be ample avenues for employment of the skills graduates had achieved.

Wollongong University's top graduate for last year Mr. Paul Buchhorn, pictured with his parents, received his Mechanical Engineering degree and the University Medal. Mr. Buchhorn is working at Geelong with Trans West Haulage, a subsidiary of the Swipe Group of companies. He joined the firm as a management trainee and hopes it will lead to a post in top management.



The posthumous award of Doctor of Science to Emeritus Professor Austin Keane, one of the university's best known and most respected identities, was a highlight of the graduation ceremonies.

Professor Keane, one of the original university members, died in March last year.

His son Phillip accepted the degree on behalf of his father.

Professor Keane joined the then University College in 1964 as Wollongong's first mathematics professor.

He was the first staff member to gain the rare title of Emeritus Professor and he also was the university's first Deputy Vice-Chancellor.

The Doctorate of Science is the first bestowed by the university and was awarded for Professor Keane's significant and original contributions to mathematics.

Degree honours maths work

Phillip, a graduate of the NSW Institute of Technology, works as a Public Works Department engineer at Port Kembla.

Professor Keane, after showing an early aptitude in mathematics, obtained honors in mathematics and physics from De La Salle College, Marrickville. From there he went to the University of Sydney, gaining prizes in mathematics and astronomy and the University Medal.

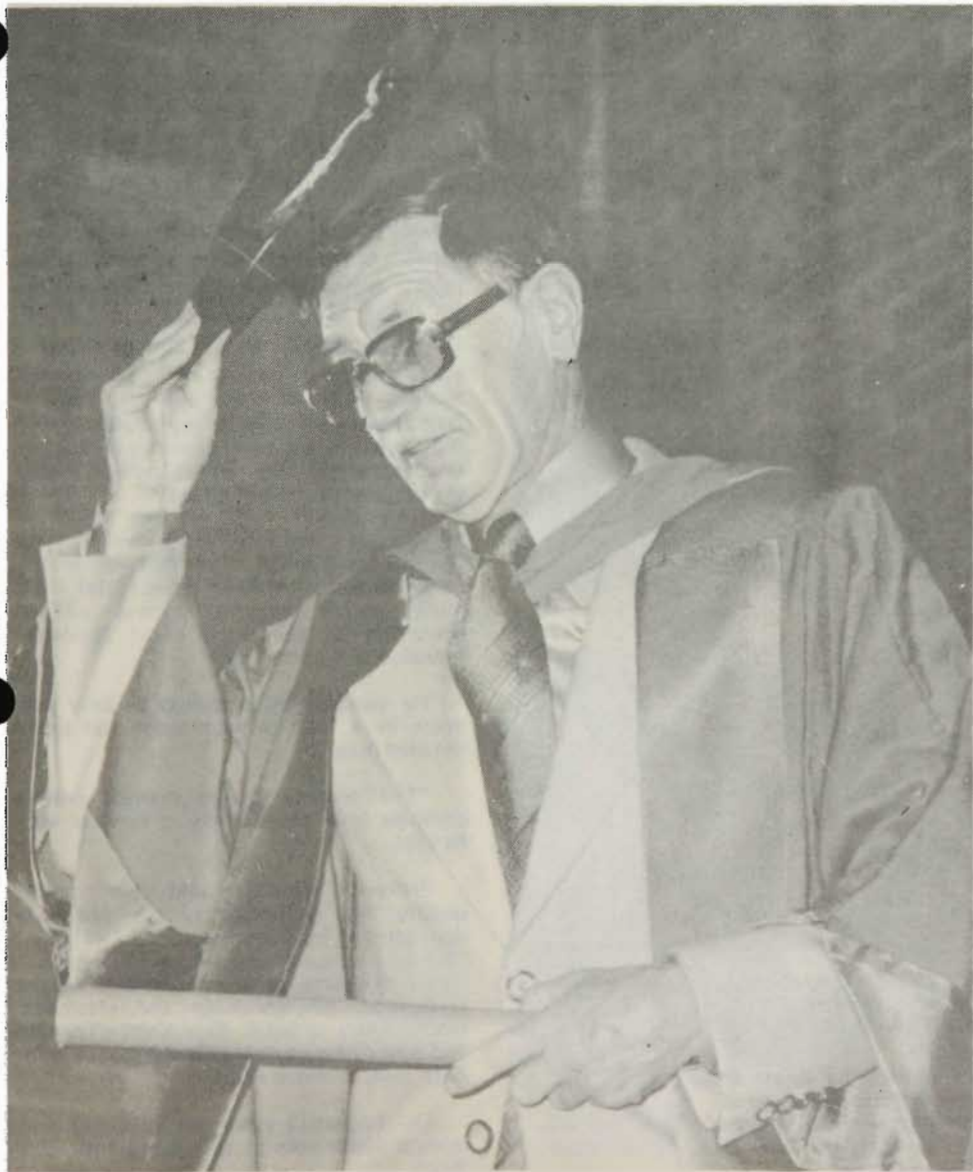
He contracted tuberculosis but completed his Master of Science degree in a sanatorium.

He met his wife Lorna in Wollongong while conducting courses for Sydney Technical College in Illawarra. It was here he studied for his PhD, which he gained in 1955. It was the first PhD in Mathematics awarded in Australia.

In 1959, he became a consultant to the Australian Atomic Energy Commission and executive officer of the Institute of Nuclear Engineering at the University of New South Wales.

During his time at Wollongong University, he supervised 28 graduate students - 18 doctoral students and 10 masters - a record of postgraduate teaching unparalleled in the Australian mathematical community.

Professor Keane's last doctoral student, Dr. E. Cerone, graduated with a PhD on the same day his famous supervisor was honored posthumously.



Mr. Walter Pike, former Wollongong Institute of Education director, after he received his honorary Doctor of Letters degree. The university gave the degree in recognition of Mr. Pike's service to the university and the institute. South Coast education director Mr. Brian Gillett, who gave an address before the award, said Mr. Pike had given outstanding service to education in Wollongong and throughout New South Wales. He said Mr. Pike had worked for the development of both institutions. Mr. Pike came to Wollongong in 1969 as Wollongong Teachers' College vice-principal and became director in 1978 when the college became an institute of education. During that time, he was a member of the university council. He retired early this year.

Marian Zaunbrecher, who is well known for her involvement with Kids Uni, received her Master of Arts degree for a thesis on Religious Attitudes in Australian Literature of the 1890s. Marian, pictured with her husband Ralph and children Sean, 4, and Jane, 2, holds a Doctorate in Divinity and a Bachelor of Arts degree. She is studying for her PhD at Deakin University in Geelong. Marian helped establish child care facilities at the university and was the first director of Kids Uni. Ralph is studying for his Diploma in Education at Melbourne University.



Professor urges change



Mrs. Lorna Patch adjusts the gown of her daughter Lynnette before she received her Bachelor of Commerce degree. Lynnette majored in economics and now works with the Bureau of Statistics in Sydney.

Although universities were the most conservative of institutions, many were changing "in quite dramatic ways," Professor Noel Dunbar told the education and arts graduation ceremony.

"They are dynamic organisms and if they don't adapt to changes in their environment then, like all living organisms, they will not survive," he said.

Professor Dunbar, chairman of the Universities Council - the Federal Government body which funds universities - said many people regarded general cultural education as the single most important function of a university.

He said education should be only signposts in a field of knowledge and not a detailed map.

"The teacher should provide only a compass and occasionally a survival kit," he said.

Professor Dunbar said the nature, quality and reputation of any university depended on its graduates.

In the arts, mathematics and science graduation ceremony in the afternoon, mathematics scholar Dr. Keith Tognetti and one of his students Dr. Graham Winley both were awarded PhDs.

Dr. Tognetti's young son played a two-minute violin solo at the start of the ceremony.



Mr. Vic McNamara was one of the identities of the graduation ceremonies. In 1976 he retired from the New Zealand Insurance group after 50 years at work and enrolled at the university for the Bachelor of Commerce course. Mr. McNamara, of Mangerton, was rewarded when he collected his degree and his fellow Commerce graduates saluted his achievement. He said he missed the chance of going to university in his youth after his father died when he was 15.

Murray Robinson, student representative on the University Council, received his Bachelor of Engineering (Hons) degree and his wife Sherrie Escobar received her Bachelor of Arts (Hons) degree.



Mr. Neville Erskine, who received his Bachelor of Arts degree in English and History, easily could have won an award for dedication. Mr. Erskine, pictured with his wife Beth and children Andrew, 3, and Clare, 8 months, supported his family on TEAS while he was studying. He now is

working at the university as a special admissions student after working as a pathology technician at Wollongong Hospital. He is studying for his Diploma in Education and hopes to start teaching high school next year.



ACADEMICS EXAMINE

Within the next few years critical decisions will have to be made about the future of technology in Australian society. Professor Michael Birt, Vice-Chancellor of the University of Wollongong has commended initiatives being taken within the University to establish TASC, an interdisciplinary research group concerned with the place of technical change in our society.

TASC (Technology and Social Change) has been formed by a group of over twenty academics from eight disciplines who have brought together their continuing research commitments to develop a coherent programme of research on technical change.

TASC capitalises on competences which already exist within the University and benefits from the advantages of a small campus where closer inter-disciplinary links can be forged.

Represented in TASC are the disciplines of economics, geography, sociology, education, history, philosophy of science, metallurgy, physics, engineering, as well as personnel within the University's Centre for Multicultural Studies and Industrial Relations programme.

Research projects are already underway, or have been completed in areas such as:-

- the relation between university research and technical change.
- the impact of technical change on the Illawarra region.
- the integration between science, technology and industrial productivity.

- occupational health and safety in industrial environments.
- the effect of taxation on the form of capital investment and employment generation.
- the history of the Australian trade union movement and its responses to technological change.
- the impact of television education on immigrant integration.
- science, technology and development.
- impact of word processors on organisation of female workers in the local authority.
- impact of industrial re-organisation on shop floor trade union strategies.
- technology assessment of alternate energy futures.

Funding of over \$200,000 has been attracted over the past four years for research related to these issues.

Co-founders of TASC are Professor Ron Johnston, Chairman of the Department of History and Philosophy of Science (HPS), and Professor Stephen Hill, Chairman of the Department of Sociology.

TASC was formed in February after Professor Johnston was appointed to the Chair of HPS and Professor Hill returned from a period overseas studying the latest developments in research on technology and change.

One of their first initiatives was to organise an inaugural meeting between the NSW Government's newly-established Technology and Information Research Unit (TIRU), and the Science and Technology

Council Secretariat with TASC at Wollongong University.

Professors Johnston and Hill see that the initiative in establishing TASC is designed to meet government and community concerns about how to expand industrial productivity through technical change and how to evaluate and respond to the social and economic consequences of technical change.

TASC is established in the clear belief that answers to these questions are of the utmost importance to the future of Australian industry and society. TASC, they suggest, will have four primary objectives:-

- The development of interdisciplinary research on the important questions of technical change
- the development of the information base necessary for decisions about technical change
- consultancy with government, management, trade unions, and concerned community groups about organisational and social responses to technical change
- the stimulus of teaching across a range of courses within the university to relate technical change to both vocational and academic concerns of the students, and in addition, to extend university competences in this area into the general community by way of public forums.

Several related perspectives will be brought together:-

- research directed both to the development of theory about the nature of technology and its relation to

Crisis centre offers 24-hour service

Wollongong Crisis Centre is an organisation staff and students may care to remember as well as the university's counselling service.

The Crisis Centre caters for people with drug problems and aims to take as much of the stress as possible out of withdrawal.

The centre is staffed 24 hours a day and offers full medical supervision.

The centre also offers acupuncture, personal counselling, yoga, group work and massages.

"We want to help addicts withdraw and start living again. We don't want to make withdrawal painful" is one of the centre's stated aims.

The centre is endorsed and financed by the NSW Drug and Alcohol Authority.

Dr. Neil L. Adams, of the university's Department of Psychology, is chairman of the voluntary committee which manages the centre.

People are admitted for between two and six weeks. The cost is \$30 a week which can be subtracted from sickness or other benefits which the centre may be able to help obtain for admitted people.

The centre can accommodate up to 10 people.

Inquiries should be made to Kembala House, 34 Kembala Street, Wollongong. Phone (042) 28 8131.

Volunteer workers are welcomed. Anyone who can help for even a couple of hours a month should contact the centre.

SAVE POWER

"Don't waste energy" is the message from the university's administration.

The university's electricity bill this year is expected to be \$210,000 so administration is keen to keep power costs as low as possible.

Staff and students are asked to turn off lights, heaters, air-conditioners and other electrically-powered equipment as soon as they finish using it. Doors and windows should be closed where air-conditioning is operating otherwise the air-conditioning system is not cost-effective.

Users of the Pentagon are reminded there is a box for suggestions and complaints in the foyer. Reports of defects in lecture theatres' air-conditioning will quickly be acted on by maintenance staff.

TECHNOLOGY, SOCIAL CHANGE

social and economic change as well as to detailed empirical studies of particular cases of change

- research dealing with both local regional concerns, and national concerns
- research broadening its focus on immediate Australian problems by comparative studies of the experience of other nations at both similar and different stages of development.

The University, based in a highly industrialised town with close community links, is in an ideal position to meet these objectives.

The establishment of TASC draws together two careers that have moved through different disciplines and regions of the world since they first came into contact, but which have both been concerned with the relations between science, technology and the society in which we live.

The liaison between Professors Johnston and Hill has extended over 12 years since they first met at Northwestern University, Chicago, whilst both were involved in interdisciplinary work in a "research on research" programme there.

Stephen Hill has an Hons. Degree in Science, a Ph.D. in business administration and since his Chicago appointment (in sociology and engineering) has worked with the Science Policy Research Unit of the University of Sussex on science in developing countries, taught at the University of New South Wales Sociology Department as well as being Foundation Professor in Sociology at the University of Wollongong.

His work has been in sociology, but

has involved projects:-

- * on science technology and development in both Thailand and India,
- * on science education (for the Australian Academy of Science),
- * on science, technology and productivity (for the NSW Science and Technology Council),
- * on the nature of scientific knowledge (with Professor Thomas Luckmann of Konstanz University, Germany),
- * on several aspects of the impact of technology on society (e.g. TV and immigrant education, with Professor Ron King of the University of Wollongong).
- * He is presently researching theories of long-wave changes in the economy resulting from technical change, and spent much of his six months leave in 1979 investigating this area.

He has acted as consultant to the United Nations (assisting in the preparation of the 1969 World Plan of Action for Science and Technology), to UNESCO as well as to Australian government and scientific bodies.

Ron Johnston has a first Class Honours and Ph.D. degrees in Science, but since being involved in the evaluation of spin-off from the NASA space programme at Chicago in 1968, he has worked on a wide range of science and technology policy problems.

During eight years at Manchester University he has written extensively on the impact of changing patterns of organisation on science, the theory and practice of national policy-making for science and technology, and the direction, transfer, assessment and control of technology.

He was a consultant on a number of studies for the EEC, OECD, UK Parliamentary Select Committee on Science and Technology, the Department of Industry and the US National Science Foundation. He also established and directed a Policy Research Programme, PREST, at Manchester University.

Before taking up the Chair of HPS at Wollongong, Professor Johnston spent a year in Canberra as policy adviser to ASTEC and the Department of Science and the Environment, and has since consulted for the Department of Productivity.

He is currently leading research on the relation between university research and technical change, the impact of technical change in the Illawarra region, and mechanisms for the assessment and control of hazards in Australia.

Both co-founders have close relations with the key research groups throughout the world:

- * in the UK, the Science Policy Research Unit (SPRU) at Sussex University and Policy Research in Engineering Science and Technology (PREST) at Manchester University;
- * in West Germany, the Bielefeld/Starnberg Studies of Science Programme and the Science Policy Centre at Ulm;
- * the Council for Scientific and Technology Policy at the OECD in Paris;
- * in the US, the College of Research and Development (COLRAD) at Northwestern University and the Science and Technology Policy Program and the Center for Policy Alternatives at MIT;

Talks focus on new flood studies

Representatives from the University of Wollongong recently participated in the 20th Annual Conference of N.S.W. Flood Mitigation Authorities in Nowra on April 22 and 23. The conference focussed on prediction of flooding, evaluation of its effects, and strategies for reducing flooding.

The conference was opened by Deputy Premier and Public Works and Ports Minister Mr. L. J. Ferguson and was attended by 150 representatives from Federal, State and Local Government, the Hunter Valley Conservation Trust and engineering consultants.

Dr. Michael Boyd, of the university's Department of Civil Engineering, was one of six speakers invited to address the technical sessions of the conference. Dr. Boyd spoke on recent developments in Flood Frequency Analysis and Design in Australia and overseas.

Other speakers at the conference came from the N.S.W. Department of Public Works, N.S.W. Institute of Technology and the State Pollution Control Commission. Papers presented by these speakers covered Researching Historical Flood levels as a guide to the preparation of Flood Plain Zoning Plans; Reduction of Urban Flooding by Flood Detention Basins; and Effects of Flooding on the Coastal Wetlands of New South Wales.

The university's participation in the conference was particularly appropriate because the university is involved in flood studies of the Shoalhaven River. Dr. Boyd, together with engineers from the Shoalhaven City Council, is developing a flood forecasting model for the Shoalhaven catchment.

This computer model will enable flood discharges at various points on the catchment to be predicted using recorded storm rainfall intensities. The model will be used to predict floods resulting from hypothetical storms and also for real time forecasting while the flood is in progress.

Economics for study and fun

John Ntatsopoulos has taken up a crusade for economics - and the social side of student life.

John, who is in the third year of a Bachelor of Commerce course with an Economics Major, is re-establishing the university's Economics Society.

Working with two first-year economics students, they launched an intensive membership drive last month and signed up 80 members in only two weeks.

The success of their campaign confirms John's opinion that the Economic Society is one of the university's most popular and successful groups and was missed last year when it failed to get off the ground. It had been one of the best known groups on campus and in 1978 was the university's largest society.

Society members have been busy mapping out activities as well as continuing their membership drive. One of their aims is to sign up companies as members. "We're very keen for companies to join. Under society rules, if companies join their employees have the same benefits as individual members," John explained.

This will be a big boost for the society, especially because they hope to invite such authoritative guest speakers as State and Federal Government Ministers and Shadow Ministers to Wollongong for lectures and seminars. The greater the society's member-

ship, the more successful these plans should prove.

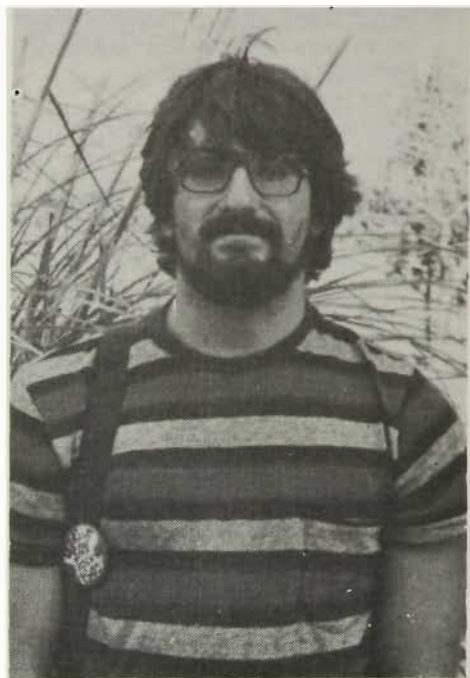
Away from the academic side, the society also is planning many functions to promote the social part of the society, which John sees as a vital part of the group.

"We want students to get to know each other better. For example, many students from Sydney don't get to know students from Wollongong and first year students don't often get to meet second and third year students. We hope to bring them together and help them to get to know their lecturers better," John said. "I found the Economics Society a really valuable help in my first year."

Any profits from the society functions will be ploughed back into arranging further activities.

John was elected society president for this year. Other society officers are: publicity officer, Lesley McMahon; treasurer, Torsten Gerwien; vice-president, Richard Robinson; secretary, Scott Armstrong; representatives, Michael Perry, Greg Davies, Brad Stone, Geoff Wilson, Brad Sewell, Lauren Jones, Colin Marley, Domenico Pensiard.

The society's activities will kick off with an "economics barbeque" on Tuesday, May 27, at the sports pavilion at 7.30pm. Tickets will cost \$3 for society members and \$5 for non-members and will cover free drink and food.



John Ntatsopoulos

Campus News welcomes letters to the Editor on any topic. Letters should be reasonably short and to the point. The aim is to establish a few brisk dialogues between departments and individuals to promote ideas and communication. All departments and those with something to say, please take note.

Australian and New South Wales cancer experts, leading doctors, radiologists and many Illawarra health experts will address the Illawarra Cancer Conference at Wollongong University in July.

The conference - in eight sessions over Friday, July 4, and Saturday, July 5, will be a most comprehensive study of cancer and many associated aspects.

Speakers will include Dr. G. A. Sarfaty, NSW State Cancer Council Director and Prince of Wales Special Unit Director; Professor E. Finckh, Sydney University Professor of Pathology and Westmead Institute of Clinical Pathology and Medical Research Director; Professor M. Tattersall, Sydney University Ludwig Institute of Cancer Research Director; Dr. J. Ford, NSW Health Commission Central Cancer Registry Director; Dr. B. Stewart, NSW State Cancer Council Senior Research Fellow; Dr. R. Howe, BHP Group Chief Medical Officer; and Mr. R. Melville, general surgeon and Clinical Oncological Society of Australia President.

Illawarra speakers will include Dr. D. Warner, Wollongong Hospital Honorary Director of Radiology; Mr. R. Crux, Illawarra Regional Health Director and Dr. B. O'Neill, Wollongong Hospital Director of Haematology and South Coast Blood Bank.

Friday's sessions will be: Some General Features of Cancer; Detection and Diagnosis; Support of the Cancer Patient and Family; Further Development of Cancer Services in the Illawarra. Saturday's sessions will be: Carcinoma of the Breast; Carcinoma of the Colon; Leukaemia and Lymphomas and Carcinoma of the Lung.

Further Development of Cancer Services in the Illawarra will close Friday's sessions.

Conference on cancer has variety of speakers

Wollongong University Vice-Chancellor Professor L. Michael Birt will chair the session which will look at present and future needs in NSW and the hospital, regional Health Commission office and State Health Commission approaches to development of Illawarra services.

Support of the Cancer Patient and Family will be a major session of the conference. A priest, lawyer and doctor will speak about ministering to the dying and other speakers will look at What to Tell the Patient, The Impact of the Diagnosis, Rehabilitation of Patients and Special Problems of Migrants.

Carcinoma of the Breast will be the major session on Saturday.

The conference will conclude with a lunch-barbecue at the university.

AVCC NEWS

The Australian Vice-Chancellors' Committee renewed its efforts to obtain improvements in Postgraduate Awards when it met Federal Minister for Education Mr. Wal Fife in Newcastle recently.

The AVCC wants the Government to increase the number and value of Postgraduate Awards and wants them to be made free of tax.

It wants the number of awards increased from 700 to at least 900.

After the last federal budget, the AVCC expressed serious concern at the fall in the number and value of Postgraduate Awards in recent years.

The AVCC decided to take the opportunity of its first meeting with Mr. Fife, the new Minister for Education, to press for more satisfactory provision to be made for Postgraduate Awards in the next federal budget.

The Chairman of the AVCC, Professor D. W. George, said that earlier this year the AVCC had made a full submission to the Department of Education on the case for improving the awards, but it had though the issue so important that it should be raised directly with the Minister.

He said the AVCC supported the views of the Williams Committee of Inquiry that the number of awards be restored to the level which applied in 1975 and 1976.

"Postgraduate students make a considerable contribution to the universities' teaching and research programmes and earlier decisions to reduce, and more recent decisions not to increase the number of Postgraduate Awards, have had serious implications for the universities' teaching and research activities," Professor George said.

"There is an increasing demand from highly qualified applicants for Postgraduate Awards, and each year since 1977 a large number of well-qualified applicants, including several with First-class Honours degrees, have been unable to obtain research awards."

"It seems inconsistent to the AVCC that the Government should have accepted proposals from the TEC for increases for higher degree student numbers while at the same time reducing the number of Postgraduate Awards."

"A reason given in the past for reducing or not increasing the number of Postgraduate Awards is the diminishing employment opportunities, particularly for trained research personnel." (the AVCC believes that this is a short-sighted view, and unless adequate training opportunities are maintained there will be a shortage of highly-trained personnel available in the work force in the near future. Also, the training involved in obtaining a higher degree can fit a person for a variety of occupations.)

"A significant recent development, which will make its impact felt for the first time in 1981, is the decision of the United Kingdom Government that, beginning in the academic year 1980/81, new overseas students in higher and further education will be expected to meet the full cost of their tuition."

"While there will be a concessions scheme for 400-500 overseas students, this development will inevitably mean that fewer Australians will be able to afford to undertake postgraduate studies in the United Kingdom, and that many will be obliged to remain in Australia and will compete for Postgraduate Awards."

Professor George said the stipend attached to each awards (\$4,200 a year) and dependants' allowances (\$1,632.80 for a dependent spouse and \$390 for each dependent child) had been unchanged since 1978 despite continuing inflation.

"The AVCC strongly urges: (1) that the level of the stipend and dependants' allowances be increased to a realistic level which takes account of movements in the levels of wages and prices since 1978; and (2) that they be moved at regular intervals to reflect movements in the general level of costs, based on some form of indexation or movement in the national wage, perhaps at the same time as each national wage adjustment.

"The AVCC holds the view that ad hoc reviews of other allowances - thesis, incidentals, establishment and travel - are appropriate."

Professor George said the Government's decision in 1978 to tax the Postgraduate Awards had created serious problems and anomalies for both students and institutions.

He said the AVCC strongly opposed any suggestion that all postgraduate awards should be taxed. Not only would this disadvantage the recipients financially, but it is felt that a number of private benefactors might be discouraged from offering awards, because their prime intentions to assist students in need would in part be frustrated.

Committee meets Education Minister

Declining funding for universities has been concerning the AVCC and the following points were made to Federal Minister for Education Mr. Wal Fife:-

The funding of universities in real terms has declined significantly since 1975 and, in particular, the AVCC agrees with the comments made by the TEC and UC in Volume 3 of the TEC Report for 1979/81, namely that failure to increase funding for equipment will further endanger the quality of teaching and research in Australian universities, and that because there have been persistent reductions in capital funding, there are examples of overcrowding, the use of unsuitable temporary accommodation, and sub-standard facilities which need urgent replacement;

The Government is in danger of claiming that it has increased opportunities for education without having provided the funding to support that claim. This applies in particular to the financial support for students through the TEAS and the Postgraduate Awards schemes;

A major concern to universities is the funding of salary increases for non-teaching staff which result either from a flow-on of salary increases granted to comparable staff in State Public Services or from awards by State Industrial Commissions. Universities are obliged to pay these higher salaries but they do not receive any additional funding from the Commonwealth Government.



Professor D. W. George



'Take Note' will now always appear on the back pages of Campus News instead of on a separate sheet as previously. Items should be presented to Beatrice Henderson at the Development and Planning Office.

UNIVERSITY SEMINARS

Friday, May 23, 10.30a.m. Room 06, European Languages. "Drieu La Rochelle" by Professor R.B.Leal, University of Wollongong.

Monday, May 26, 3.30p.m. Lecture theatre annex 1. Dr. Raffaele Perrotta of the University of Sydney will speak on "La selvaggia estate: l'Alcyone di D'Annunzio".

Tuesday, May 27, 12.30p.m. Room 134, Metallurgy Building. "Behavioural Ecology of Swamp Hens in N.S.W." by Paul Wettin, School of Zoology, University of New South Wales.

Tuesday, June 3, 12.30p.m. Room 134, Metallurgy Building. "From 'cold-bloodedness' to 'warm-bloodedness'" by Dr. A. J. Hulbert, University of Wollongong.

SCHOLARSHIPS, FELLOWSHIPS, AWARDS, GRANTS.

Details of the following items are available from the Student Enquiry Office, Ground Floor, Administration Building. Closing dates are in brackets.

LA TROBE RESEARCH FELLOWSHIPS 1981 (July 31, 1980)

GOETHE INSTITUTE MUNICH, GERMAN LANGUAGE SCHOLARSHIP (June 15, 1980)

ST. JOHN'S COLLEGE CAMBRIDGE, COMMONWEALTH FELLOWSHIP, 1981 (January 15, 1981)

ONTARIO INSTITUTE FOR STUDIES IN EDUCATION, Ph.D., Ed.D., M.A., and M.Ed. programs available.

BELGIAN NATIONAL SCIENCE FOUNDATION, Postgraduate courses in Marine Biology.

Copies of the following student information papers, prepared by the Association of Commonwealth Universities, London, are available from Student Enquiries.

POSTGRADUATE STUDY AT AUSTRALIAN UNIVERSITIES
POSTGRADUATE STUDY AT UNIVERSITIES IN BRITAIN
POSTGRADUATE STUDY AT CANADIAN UNIVERSITIES
POSTGRADUATE STUDY AT NEW ZEALAND UNIVERSITIES

CONFERENCES, SEMINARS, SYMPOSIA

Details of the following items are available from the Development and Planning Office, Room G04, The Hut (ext. 955).

SECOND WORLD WILDERNESS CONGRESS, Cairns June 9-13, 1980.

AUSTRALIAN GROUP FOR THE SCIENTIFIC STUDY OF MENTAL DEFICIENCY, 1980. National Conference. Launceston, Tasmania. Sept. 5-9, 1980.

CHILD LANGUAGE DEVELOPMENT: Theory into Practice, Launceston, Sept. 7-10, 1980.

INTRODUCTION TO MARKET RESEARCH: Short course, May 21 - June 25, 1980. Sydney.

8TH WORLD COMPUTER CONGRESS: Tokyo and Melbourne, October 14-17, 1980.

COMMUNICATION - SECTION 33 of 51ST ANZAAS CONFERENCE: Brisbane, May 11-15, 1981. Abstracts of intended papers must be submitted by June 30, 1980.

RUSSIAN LANGUAGE SEMINAR, Leningrad, June 15-27, 1980.

ASSOCIATION OF COMMONWEALTH UNIVERSITIES: Annual General Meeting, London, November 6, 1980.

RADIONUCLIDES IN MEDICINE NO.8: Lucas Heights, Sept. 15 to Oct. 10, 1980.

AUSTRALIAN ASSOCIATION OF NATIONAL ADVERTISERS SEMINAR: Canberra, June 24, 1980.

UNESCO WORLD CONGRESS ON DISARMAMENT EDUCATION, Paris, June 9-13, 1980.

FILMS

The English Department will present the following film versions of Shakespeare's play in the Drama Hut at 8 p.m. on:-

Monday, June 2 Kurosawa's "Throne of Blood"

MISCELLANEOUS

WOLLONGONG CITY GALLERY: The following exhibitions will be held at the Gallery -

June 3 to July 6 An Exhibition of Sculpture by Oliffe Richmond

June 6 to July 6 Photographs by Mark Drooc

RESEARCH PROJECT - COMMUNITY NURSING PROJECT: Applications invited from suitably qualified people to undertake study of community nursing practice in Victoria.

ENVIRONMENTAL RESEARCH PROJECT: Barrow Island, W.A. (Closing date - October 31, 1980)

THE ROLE OF WOMEN IN THE AUSTRALIAN NATIONAL UNIVERSITY: A copy of this report is available for perusal. Contact Doreen Turnbull, Registrar's Secretary, ext. 891.

ACADEMIC VACANCIES: The April list of academic vacancies in Australia and Overseas (prepared by the AVCC) is available for perusal in the Development and Planning Office, Room G04, The Hut.

UKRAINIAN LANGUAGE CLASSES FOR BEGINNERS: Commencing Wednesday, May 21, 7.30 to 9.30p.m. All welcome. Inquiries: 71.1757 or 29.3090.

CAMPUS NEWS

Published throughout the academic year by the Development and Planning Office for The University of Wollongong, Northfields Avenue, Wollongong, N.S.W. 2500. Distributed to students and staff, and to local, regional, state and national individuals and organisations.