



University-Health Service partnership *Meeting the challenge of modern health care*

The University of Wollongong and the Illawarra Health Service have established a partnership to develop what promises to be 'an invaluable relationship' for the region.

That was how Mr Peter Collins, Deputy Leader of the Parliamentary Liberal Party and the Minister for Health, put it in his speech at the signing ceremony in the University Council Room on Friday August 11.

Mr Collins said: '...The signing of the agreement between the Illawarra Health Service and The University of Wollongong will put in place an invaluable relationship between health services and the Illawarra's tertiary institutions.

'The University and the Area Health Service will be working together to develop teaching and research programs. These will be directed at a range of health services, with particular emphasis on preventative strategies.

'The agreement will also assist with recruitment of health professionals.

'Over the next five years The University of Wollongong will develop a number of postgraduate medical programs.

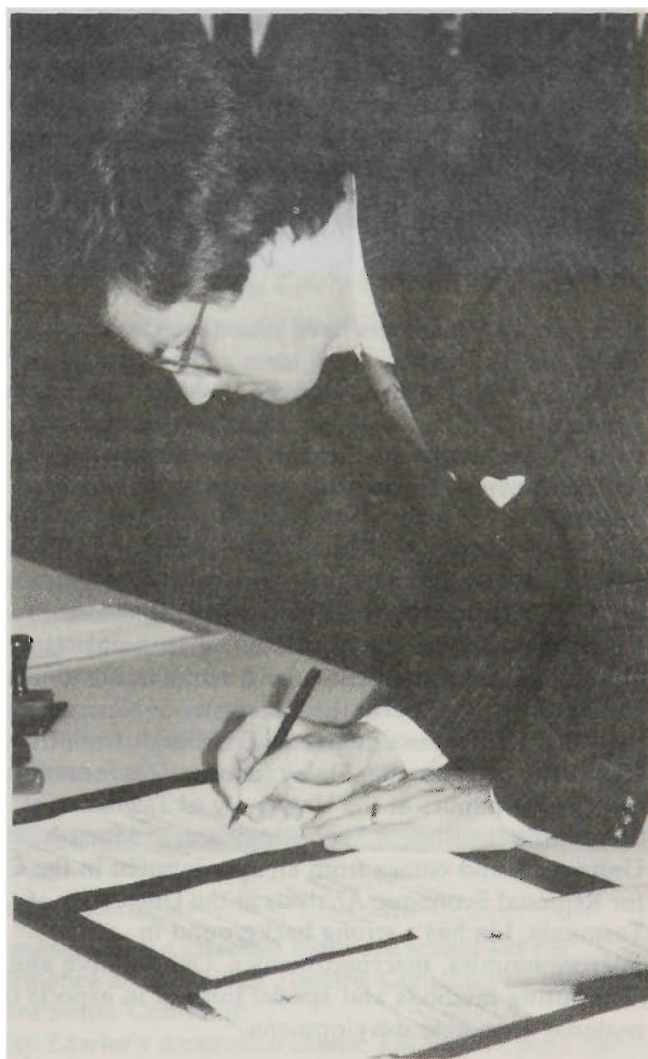
'Such programs will assist clinical staff to keep abreast of developments in service delivery and technology.'

The Minister went on to say that the Greiner government was committed to the Illawarra and that enhanced funding of \$4.1 m had been allocated for 1989-90, representing a real growth of three per cent. He commended the Area Health Service and the University on their vision and commitment to the future of health services in the region.

In order to achieve the goals set, the University is reorganising its health and medicine courses within a Faculty of Health Sciences.

Features of the partnership, which will distinguish it from health training and delivery services based on traditional Schools of Medicine, are

- * emphasis on disease prevention and health promotion
- * strong focus on primary care



Deputy Leader of the Parliamentary Liberal Party and Minister for Health, Mr Peter Collins, signing the agreement between the University and the Illawarra Health Service

- * commitment to the role of curative, preventative and support services
- * strong co-operation between local government, industry and the community
- * affiliation of area-based services.

From the germination of such medical seeds, the people of the Illawarra cannot but benefit in the years ahead from new levels of health care.

General Notices



Linley Johnson

New Staff Members for Centre for Transport Policy Analysis

Two new staff members have joined the Centre for Transport Analysis research team and will be concerned especially with the Centre's major project – funded by the Australian Special Rural Research Council – on port pricing of rural exports through Australian ports.

Dr Hema de Silva comes to the Centre after his appointment as a Senior Economist with the Department of Primary Industry in Papua New Guinea and following research at the University of Newcastle. After graduating with BSc Honours from the University of Ceylon, Dr deSilva completed a Master of Agricultural Development Economics at the Australian National University and a PhD at the University of Newcastle.

With an Honours degree in Economics from the University of Tasmania, Linley Johnson was formerly a tutor in Economics at the University of Tasmania, at Swinburne Institute of Technology and at Monash University, and comes from an appointment in the Centre for Regional Economic Analysis at the University of Tasmania. Lin has a strong background in microeconomics, macroeconomics, Quantitative and Computing methods and special interest in aspects of regional economic development.

Australian Feminist Book Fortnight – September 1 to 17

To celebrate the inaugural Feminist Book Fortnight in Australia, the Library will hold a display of books by women writers. The Book Fortnight, a nationally co-ordinated program of events, is designed to promote recently published good writing by women.

The display will include books by women writers on campus, feminist fortnight favourites and recent books by women writers.

The display will be held on the ground floor of the Library from September 1 to 17 in Library hours.

Science Centre Opens to the Public

The interactive Science Centre on the University's Campus East, Cowper Street, Fairy Meadow, is now open to the public. Initially opening hours will be:

Saturday and Sunday 1 pm to 5 pm

Weekdays for schools and groups by arrangement

Entrance: \$4 adult, \$2 children.

On University Open Day, Sunday August 27, it will be open from 10 am to 5 pm. 'Fun for all aged six to 60 and over.'

Scholarship for Lisa Scott-Murphy

Lisa Scott-Murphy has been awarded a scholarship to continue her research into the use of the Feldenkrais Method in movement design for the theatre. The scholarship, from the Institute of Movement Studies in Berkeley, California, is under the directorship of Dr Frank Wildman, who is also educational director of the professional training for Feldenkrais Practitioners currently completing their four-year training with the Cumberland College of Health Sciences. Lisa will be one of the first generation of Australian Feldenkrais Practitioners.

Lisa Scott-Murphy is currently enrolled in a DCA, exploring the role of a movement designer as well as lecturing in theatre and Interarts in the School of Creative Arts. Most of her work can be seen in the main theatres of Sydney although currently she is working with Dr Peter Shepherd on the music theatre adaptation of Shakespeare's *the Tempest*, to be seen at the School of Creative Arts Theatre from August 23 to 27.

Innovative Management Program

A three-day management program will be organised by ITC Uniadvice Limited on October 4, 5 and 6.

The program will comprise a Managerial Effectiveness Session on October 4 and 5 and Leading Your Work Team Session on October 6.

Registration advice from Course Co-ordinator, ITC Uniadvice Limited, PO Box 1144, Wollongong, NSW 2500.

Library demonstrations for Open Day

During Open Day on Sunday August 27, demonstrations of research tools which employ laser-disc technology will be given by Library staff.

Recently a videodisc entitled *De Italia: Encyclopedia of Italian Civilization* was donated to the Library by the Giovanni Agnelli Foundation of Italy. At present it is the only copy of this important work available in Australia.

The videodisc incorporates 20,000 images and 12,000 text entries on Italian history, art, politics, literature, geography and society. The images stored on the disc are recreated on a television screen with exceptional clarity, making this an invaluable research tool.

Demonstrations of some of the CD-ROM databases used in the Library will also be given. CD-ROMs hold tens of thousands of journal article citations and are invaluable for rapid retrieval of recently-published information.

This is a too-good-to-miss opportunity to view at first hand some of the important advances in information technology being made available in the Library.

Jose Aerts



Jose Aerts is a Dutch sculptor, ceramicist and multi-media performance artist. She is also artist-in-residence at the School of Creative Arts during Session Two. Her work has been widely exhibited and presented at exhibitions and other art events in Europe and North America. Her residency has been made possible through grants made both by The University of Wollongong and the Visual Arts and Crafts Board of the Australia Council.

Trained in The Netherlands as a sculptor in the late 1970s, Jose Aerts' artistic output has evolved steadily and diversified in form, material and concept from straightforward sculptural pieces and ceramics works to sequences of land art installations presented in a variety of locations. She has concentrated on performance art during the past three years since working with Dutch performance artist, Ivonne Vol, and has expanded her artistic techniques and practices to incorporate aural and visual settings as well as sculptural sequences of movement, costume and mask design within her themes, and a montage of mood and personality in live performances.

This session, Jose is focusing on a new series of installations and performances which she has been devising since her arrival in Australia early this year. In September she will be presenting a new work, *Metamorphosis*, consisting of a series of four installations, opening at The Performance Space, Redfern, on Monday September 11 at 7.30 pm. This exhibition will continue until September 27, with public performances by the artist on Friday September 15 and 22 at 8 pm.

On Thursday October 19, Jose will be presenting another performance, *An Artist Two Months Later*, in The Art of Lunch program conducted by the School of Creative Arts at the Music Centre (Building 24) from 12.35 to 1.25 pm. This performance is described as her public recovery from her residency within the School of Creative Arts.

Jose is also devising a series of temporary installations which will be strategically placed on campus. Some of these include a floating spiral in the duckpond constructed from plastic and water, a 'Well of Loneliness' in the Amphitheatre, and an 'eternal ladder to the sky'.

Jose Aerts lives at Minnamurra and is finding the Australian landscape a new influence on her work. Her installations and performances reflect strongly a diverse variety of anthropology, poetry, philosophy and music, as well as the experiences of her travels. The musical mood of her performances is eclectic, ranging from composers such as Erick Satie, singers such as Nina Simone,

contemporary fusion music and traditional music from Japan, Africa and the indigenous peoples of the Americas.

As an artist she relies heavily on the association of images with music, of form with movement, and reflections emanating from central sources of place and elemental renditions of water, earth, sky, trees, rocks and the patterns inherent within them. She invites her audiences to develop associations and responses of their own. Her body of work has proved to be thoughtfully and deeply reflective of time and space, and body and soul. Her intention is to remain in Australia and develop new contacts and works, and to pursue the development of her art within an antipodean context.

Centre's United Nations Study Well Advanced

The Centre for Transport Analysis, through the work of its Senior Research Fellow, Steve Meyrick, is now well advanced in its design of a Shipping Network Model for the United Nations ESCAP in Bangkok.

The model, which simulates movements of shipping among a complex network of ports in Asia and the Pacific, is a major contribution to ESCAP's Regional Maritime Strategy Study which has been initiated to assist developing countries in the region to make more effective shipping and port investment decisions.

Recently, at the second Advisory Committee meeting of the Strategy Study in Bangkok, Steve presented a review of the model, which evoked considerable attention from the major maritime countries in the ESCAP region.

Annual Australian Map Circle Conference

The 18th Annual Australian Map Circle Conference will be held at Bathurst, NSW, from 28 to 31 January 1990. The theme will be: *Maps, a graphic experience, their value and use, yesterday, today and tomorrow.*

The Australian Map Circle is a national group of map producers, users and curators which acts as a medium of communication for all those interested in maps. The 1989 AMC Conference, held in Wollongong early this year, was extremely successful. For programs and registration forms contact Joanna McLachlan, or Rick Warrington, Land Information Centre, Department of Lands, Panorama Avenue, Bathurst, NSW 2795. Telephone: (063) 38 8200. For information about the AMC locally contact Richard Miller (Geography), Keith Gaymer (Library), Brian Rogers (Education) and David Martin (Geology).

Theatre South

Two outstanding Australian plays are scheduled for performance at the Bridge Theatre, Coniston, by the Theatre South Company.

Ray Lawler's Australian classic *Kid Stakes* opens its season on September 7 and continues until September 30. Called by many *The Summer of the First Doll*, the play tells of the meeting of the principals and sets the stage for the romance and drama that sees its climax in Lawler's later play *Summer of the 17th Doll*. *Kid Stakes* features an outstanding cast, directed by Jade McCutcheon and designed by Martin Wale.

The popular comedy *Hating Alison Ashley* by Robin Klein opens its run on October 12 continuing to October 28. This popular box office hit is directed by Jeff Kevin and designed by Martin Wale.

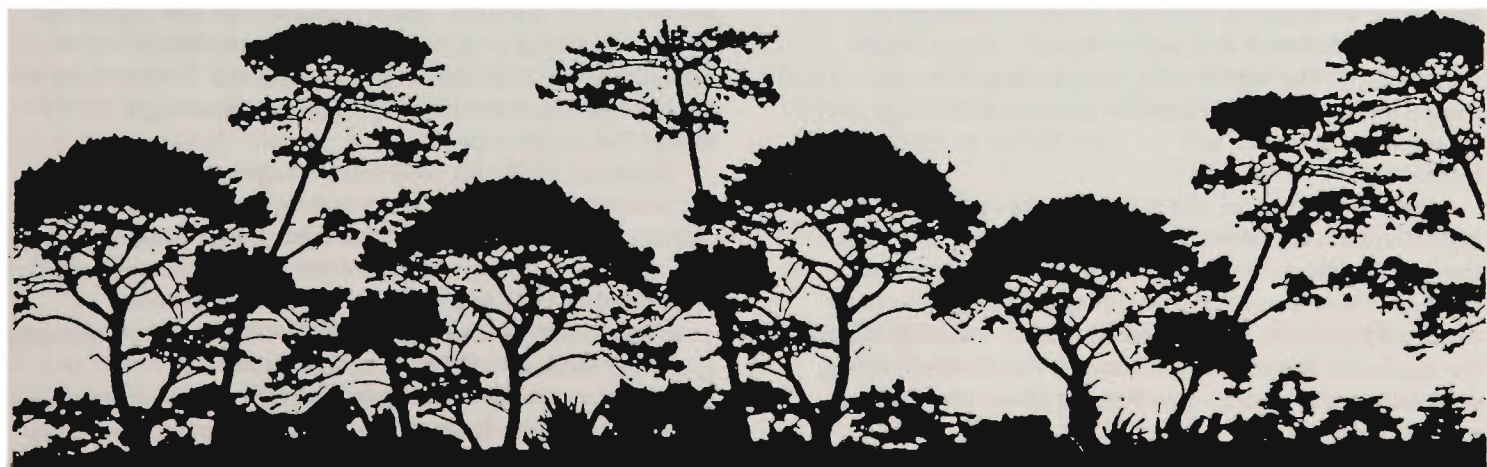


UNIVERSITY OPEN DAY

This year's Open Day will focus on the environment with public lectures and a public forum discussing many of the important issues. There will be other events occurring throughout the day - why not come along and join in?

		Building No
10 am	<i>Nature, Class, Gender and Ethnicity. Four Dimensions of Australian Society.</i> Lecture by Drs Phillip D'Alton and Toni Jagtenberg, Department of Sociology	19 (Rm 2100)
	Concert by music students from School of Creative Arts, Auditorium	24
10.30 am	Introduction to Schools Forums - general session for prospective students on costs, accommodation, careers and campus life, Theatre 1	20
	<i>What is Philosophy?</i> Lecture by Dr Harry Beran, Department of Philosophy	19 (Rm G016)
	Simulated methane gas explosion, repeated hourly, laboratories	3
11 am	<i>Greenhouse Summer or Nuclear Winter?</i> This public lecture will be presented by Professor Jim Falk and Dr Brian Martin from the Department of Science and Technology Studies and Dr Ted Bryant from the Department of Geography, Theatre 4	20
	Performance of <i>The Tempest</i> , a new Music Theatre work based on Shakespeare's play, by creative arts students. Performance Space, also at 3.30 pm. Admission \$4	24
	<i>Communicating with Others, the Social World.</i> Lecture by Professor Stephen Hill, Department of Sociology	19 (Rm 2100)
	Entertainment by Krossection Symphonic Wind Ensemble and Coronet Blue outside Building 11, in Central Square, Union Hall if wet	
	Story-telling in the Curriculum Resources Centre, Faculty of Education, also at 1 pm and 3 pm	22 (top floor)
	Magic Chemistry Show, repeated at 1 pm and 3 pm	14
	Tour of the Library, also at noon, 2 pm and 3 pm	16 (foyer)
11.30 am	Schools Forums (until 2.30 pm). These forums for intending students will cover areas such as pre-requisites, course structure, credit points, major studies and career opportunities. All course disciplines will be represented	20
	<i>Babies Kept on Ice: Australian Media and IVF.</i> Lecture by Ms Rebecca Albury, Department of Sociology	19 (Rm 2100)
	Introduction to aspects of fitness testing by the Department of Human Movement and Sports Science	28 (Rm G06)
	Entertainment by Daddy Long Legs: juggling and stilt walking outside Building 11, in Central Square, inside if wet	
	Kids' Uni: Children's Concert and Barbeque Lunch until 1.30 pm	10

Noon	<i>Do we have Obligations to Future People?</i> Lecture by Ms Suzanne Uniacke, Department of Philosophy, Theatre 4	20
12.15 pm	One-hour Chopin recital: supported by Chopin Society of Wollongong	11
12.45 pm	Readings by the creative writers from the School of Creative Arts	Amphitheatre
1 pm	<i>The Australian Economy: Crisis and Prospects.</i> Lecture by Professor Dudley Jackson, Department of Economics, Theatre 4 Entertainment by Dale Woodward, Puppet Theatre/Beautiful Balloons, outside Building 11, in Central Square	20
1.15 pm	Short Back and Sides, a theatre performance trio from the School of Creative Arts	Amphitheatre
1.30 pm	Entertainment by the internationally acclaimed Don Harper Jazz Band, until 3 pm	11
2 pm	<i>What is Philosophy?</i> Lecture by Dr Harry Beran, Department of Philosophy <i>Nature, Class, Gender and Ethnicity. Four Dimensions of Australian Society.</i> Lecture by Drs Phillip D'Alton and Toni Jagtenberg, Department of Sociology Concert by music students from the School of Creative Arts, Auditorium	19 (Rm G016) 19 (Rm 2100) 24
2.30 pm	Public Forum: <i>Issues affecting the forests of south-east New South Wales.</i> A panel of five speakers will look at this complex problem. Chairman: Professor Lauchlan Chipman Dr Bill Hurditch, Forest Products Association, with the industry view Mr David Ridley, District Forester from Eden, with the management view Mr Brian Preston, adviser to the Defenders of the Environment, to present the legal implications Dr Rob Whelan, Department of Biology, to present the ecological aspects Dr Dodo Thampapillai, Department of Economics, to present the economic aspects After the presentations the panel will answer questions from the audience.	20 (Theatre 1)
3 pm	<i>Is Australia a Multicultural Society?</i> Lecture by Ms Ellie Vasta, Department of Sociology Final judging and awarding of prizes for the 1989 Electrical and Computer Engineering Design Competition, foyer and room G24, south wing	19 (Rm 2100) 35
3.30 pm	Uni movie (admission free), Union Hall	11
4 pm	<i>Professionalism and trade unionism in nursing.</i> Lecture by Ms Stephanie Short, Department of Sociology	19 (Rm 2100)



New Approach Needed For University System

The Australian Vice-Chancellors' Committee has urged the Federal Government to recognise the university system as an essential national resource which must be adequately funded.

In a statement dated August 11 the AVCC says that Australia's commitment to educational quality will be tested as higher education undergoes a radical restructuring to a university-only system. It warns that the transformation of the system through amalgamations will not succeed without additional resources. The statement says that the decline in the average grant per student over the current triennium is 'bleeding the system' and seriously reducing its effectiveness and potential.

The chairman of the AVCC, Professor Brian Wilson, said that the rolling funding triennium, or three-year funding cycle for higher education, introduced this year by the Federal Government, provided increased funding stability for the system. Under this system, higher education knew its global funding up to 1991.

However, the AVCC was disappointed that global funding for 1992 would not be announced in the Budget as the universities had expected and would be delayed until October.

The system could live with this delay so long as the Federal Government maintained its original timetable of announcing the allocations to individual institutions by December this year.

The New University

The Australian university system is undergoing the most dramatic changes since the first university was established in this country almost 150 years ago.

The binary system of universities and colleges of advanced education is being replaced by a unitary system of between 30 and 35 universities – a national university system, not a unified national system, characterised by bigger, more complex institutions catering for a broader student population.

The restructuring is taking place at a time when the economic and social demands placed on universities are increasing. Universities are now recognised as an essential resource and there is a greater understanding at the political, business and community level of the need for investment in intellectual capital. Australia can no longer compete in international markets against nations which, though having far fewer natural resources, have achieved economic ascendancy through heavy investment in education, research and technological development. Increasingly, the higher education system is seen as one of the prime agents in the process of change, through both its teaching activities and its contribution to research and innovation.

For the individual, the restructuring of Australian higher education potentially brings together the best of the university and college sectors. The changes mean more, not less, diversity in the content and design of university courses. Research will remain an integral part of the academic life of the institutions, but their changing population will mean an increasing stress on teaching performance.

While the essential mission of the university continues to be intellectual leadership through teaching, research and community service, the structures for nurturing and exercising that leadership are changing. The challenge for the system – and the nation – is to ensure that the new university continues to deliver high-quality education to as many Australians as can benefit from it. Talented, committed staff and adequate resources are important elements in that delivery. Without the necessary human and physical resources, the community's hope for an expanded, vital university sector will be disappointed.

Quality and Resources

Australia's commitment to educational quality will be tested in the next few years: the transformation from a binary to a unitary system of higher education will not succeed without the infusion of additional resources. But it will be tempting for the nation to believe that it can deliver a university-level education without increasing the average grant per student.

The AVCC welcomes the additional support for higher education provided by the Hawke Government and recognises the success of the Minister for Employment, Education and Training, Mr Dawkins, in winning extra funds for the system for the current triennium. But the increase in student places means that higher education is being asked to do more with less: an extra 49,000 places over the triennium is being accompanied by a fall of around eight per cent in the average funding per student. This drop in resources means that staff:student ratios continue to worsen and deficiencies in equipment will increase.

The university system is increasingly entrepreneurial in its approach to funding. But the assistance provided by industry and business must not be used by the government as an excuse for not maintaining an adequate level of support.

The AVCC recognises the difficult economic situation facing Australia and the need for all sectors to practise restraint, but it warns that maintenance, let alone improvement, of quality is impossible without adequate resources. Ultimately, short-changing the universities will damage the nation.

Funding the New University

The role of the new University is far broader than that of the former colleges or institutes of technology and that breadth of activity requires more specialised equipment, well-stocked libraries, and additional staff. The transition to a university system has also raised expectations among advanced education staff that they will have access to research support. Given the nexus between university teaching and research, these expectations are legitimate. But the financial implications for such increased activity are substantial and the response from the Government so far has been to attempt to spread resources more thinly across the broader pool.

Between 1975 and 1986 the average operating grant per student in higher education dropped by nine per cent. Advanced education sustained a far bigger reduction (14 per cent) than universities (two per cent). This reduction continued in 1987 and 1988 and, based on current proposed funding levels for 1989-91 triennium, the average grant per student will fall from \$7900 to \$7300.

There are some who argue that this is efficiency, an economy of scale. In truth the deterioration in funding is

bleeding the system and seriously reducing its effectiveness and potential.

The Clawback and Infrastructure

A key issue in the funding debate is the clawback – the redirection of funds from the pre-1987 universities to the Australian Research Council (ARC) for distribution to specific research projects. This clawback has been opposed because of the erosion of discretionary funding for universities and the impact on research infrastructure. In response, the government has allocated special funds for infrastructure to be distributed through the ARC in consultation with the Higher Education Council. But the clawback continues – a policy which is even more illogical and damaging given the extensive restructuring of the system which has taken place.

Many institutions which have had no history of research infrastructure support are soon to become part of the pre-1987 universities. These mergers mean that the clawback will directly affect those sections of higher education which the government says it wants to assist to upgrade their research capacity.

Under the clawback, \$130 million will be transferred from the 19 pre-1987 universities to the ARC between 1988-91. Thereafter, the reduction of the base operating grant will continue at \$65 million in real terms each year.

The Federal Government announced in its May Science and Technology Statement that it would partially compensate the universities for the reduction in their operating grants by putting \$107.5 million into the system for research infrastructure between 1990 and 1992. This will be spread across all higher-education institutions. The government is committed to providing an extra \$45 million in each of 1993 and 1994.

At the institutional level, the clawback is having an impact on staffing and the general maintenance of research funds. Some 1989 examples are:

- The University of Tasmania was forced to cut the number of projects funded by its internal research grants scheme from 153 to 63;
- At The University of NSW, the Faculty of Engineering suffered a 30 per cent cut in its Special Research Funds;
- The University of Newcastle cut its funds for academic equipment by 20 per cent in order to maintain internal research funding levels;
- La Trobe University cut its new postgraduate scholarships from the usual level of 40 to 30;
- The University of Sydney cut \$300,000 from funds available to pay research assistants with a consequential loss of support positions; \$100,000 from the computing research budget; and \$100,000 from general research expenses.

Teaching Resources

The new university will, in most cases, be bigger and more complex than in the past. While economies of scale have not been high on the government's list of arguments supporting amalgamations, the mergers may lead to some rationalisation of resources in the long term. It is vital that this rationalisation is not achieved at the expense of the quality of education. Staff:student ratios are an important function of success in delivery.

The Smith Report into higher education research policy released this year, showed that student:staff ratios in Australian universities have deteriorated since the mid-1970s. In 1976 the ratio was 11.0 to 1; in 1988 it was 12.8 to 1.

Similarly, while up-to-date equipment and decent

accommodation will not compensate for poor teaching, the lack of adequate fabric and equipment can have a debilitating impact on the quality of education. Many Australian universities are finding it impossible to maintain buildings; others are short of space; some are teaching 1980s courses with decades-old equipment. This is especially worrying for industry. The complaint that students are not always well prepared for the world of work is sometimes a reflection of the obsolete equipment which universities are forced to use.

A study by the now-defunct Department of Science in September 1986 found that 15 per cent of equipment in higher education institutions was in a 'poor or inoperable working condition'; 18 per cent of equipment was seen as no longer adequate with respect to technical capability; and of those equipment items requiring replacement, 77 per cent were seen as requiring replacement immediately or within the next five years. Overall, the survey suggested that funds for research equipment must be doubled over the next five years.

The Federal Government has rolled equipment money into the overall operating grant for institutions and argues that the institutions are free to determine their own priorities within that budget. The reality is that, with budgets in decline because of the clawbacks, equipment allocations are more likely to be reduced.

Buildings

The AVCC welcomes the \$214 million increase in capital monies provided by the Commonwealth over the current triennium. These initiatives included a \$19 million one-year renovations grant to assist in the maintenance of older buildings. The AVCC's survey of buildings in 1986 showed that at least \$270 million was needed to deal with the backlog of building maintenance and rehabilitation alone. The growth in student numbers and changes in educational priorities means that there will be a continued demand for capital facilities. The AVCC argues that capital funding should be maintained at least at the 1991 funding level.

Conclusion

The Australian university system is arguably the nation's most important resource. Its role of researching and teaching at the highest levels is of vital importance to Australia's future. It is a role which the community at all levels must understand and support if the universities are to operate effectively and enhance their partnerships with government, industry and the community.

Similarly, there must be a recognition that universities cannot be expected to operate effectively in a competitive, sophisticated environment without adequate funding.

Recommendations

The AVCC notes recent reports that the Budget surplus may be around \$8 billion and urges the government to recognise the critical value of higher education as a national investment by:

- Funding the current and additional growth over the triennium at realistic cost levels;
- Maintaining capital funding at least at the 1991 levels;
- Continuing the renovations grant which was offered in 1989 as a one-off grant to institutions;
- Increasing the operating grants of institutions to provide adequate funds for equipment;
- Providing more direct research infrastructure money to compensate for the clawback if this continues.

Seminars

Department of Psychology

Seminars are normally held in 19.1056, Tuesdays between 12.30 and 1.30 pm.

Tuesday August 22

Speaker: Professor William Lovegrove, Department of Psychology, The University of Wollongong.

Topic: *What comes first – whole or the parts? the global precedence effect in visual processing.*

Department of Biology

Session II seminars to be held in Lecture Theatre G.19, Building 35, 12.30 pm.

Date: August 22

Speaker: Shan Holmes.

Topic: *Human cytomegalovirus glycoprotein complex, gB in infected cells.*

Date: August 29.

Speaker: Dr Sue Hand, School of Biological Science, University of New South Wales.

Topic: *On the winds of fortune: origin of the Australian bat fauna.*

Biomedical Evening Series

Each seminar will be preceded by dinner at the Union Bistro at 6.30 pm. All those interested are welcome to meet the speaker at the Bistro. Please contact the Convenor so that appropriate table bookings can be made. The seminar begins at 8 pm in the Biology Meeting Room, building 35.

Convenor: Dr E.J. Steele (042) 27 0434

Date: Wednesday August 23

Speaker: Dr Len Storlien, Garvan Institute of Medical Research, St Vincents Hospital, Paddington.

Topic: *Dietary fats and disease.*

School of Learning Studies

For your diary: seminars will be held on September 6, September 20, October 13, October 18, October 25. Bring your own lunch, coffee and tea will be provided. Inquiries to Bill Winsor, School of Learning Studies, ext 3963.

Date: Wednesday August 23.

Venue: Building 21.104.

Speaker: Ms Jan Turbill.

Topic: *The Language Teachers Use to Teach Literacy.*

Date: Wednesday September 6.

Venue: Building 21.104.

Speaker: Ms Kim Draisma, SLAP.

Topic: *An undergraduate writing: A case study of writing in the University.*

TMS Student Chapter of Wollongong University

TMS Student Chapter (a group of Material Engineering) is organising a series of student seminars. The next one will be:

Date and time: Thursday August 24, 12.30 pm.

Topic: *Zinc-nickel Coating.*

Speaker: Budi Notowidjojo.

Venue: Building 1.134.

All are invited.

Department of Geography

Date and time: Wednesday August 24, 12.30 to 1.30 pm.

Speaker: Dr David Knighton, Department of Geography, University of Sheffield.

Topic: *The effects of tin mining on the Ringarooma River, Tasmania.*

Venue: Building 19, Room GO.26.

Department of Chemistry

Tentative seminar program.

Seminars are held on Thursdays at 11.30 am in Room 18.206. Inquiries to John Carver, ext 3340.

Date: August 24.

Speaker: Dr Phillip Crisp, Department of Chemistry, The University of Wollongong.

Topic: *New methods for the determination of surfactants.*

Date: September 7.

Speaker: Dr Howard Bradbury, Department of Botany, ANU.

Topic: *Chemistry in developing countries.*

Department of Accountancy

Seminars are held in the Social Sciences Building, Room 2001, in the Department of Accountancy at 11 am.

Anyone interested is cordially welcome. Inquiries please contact Hai Yap Teoh, Seminar Convenor, telephone 27 0625.

Date: Friday August 25.

Topic: *Responsibility Operation, Lease Operation and Cooperation: A Study of Business Operations in China from an Accounting Perspective.*

Speaker: Mr Wei Ming, Visiting Lecturer, People's University of China, People's Republic of China.

Department of Languages

Date and time: Thursday August 31, 3.30 pm.

Speaker: Madame Claude Debon, Chair, Department of French Literature, Universite de la Sorbonne, France.

Topic: *Apollinaire's Caligrammes.*

Venue: Building 19.2103

Department of Materials Engineering

All Wednesday seminars 4.30 to 5.30 pm, Room 1.134.

Date: Wednesday August 30.

Topic: *Surface Engineering Research – Some Examples from Plasma Nitriding and Laser and Electron Beam Heating.*

Speaker: Dr M. Samandi.

The Art of Lunch

August 24

The Seraphim Trio: Floyd Williams, lecturer in clarinet at Queensland Conservatorium, is joined in a recital by faculty from the University of Cincinnati, Patricia Berlin (mezzo-soprano) and Donna Loewy (piano) in Alison Bauld's *Banquo's Buried* plus works by Horvit, Brahms and Spohr.

August 31

Caribbean poet, Professor Eddie Baugh, is a visitor to the English Department. He will read from his recent work.

FOR SALE

Washing machine (Simpson, automatic) of medium size. \$200. Telephone 27 0058.