

BULLETIN

THE UNIVERSITY OF NEWCASTLE

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New building work almost completed

After delays caused by rain and earthquake damage, the new Computing and Information Sciences building is almost ready for use.

The contractors, R.W. Black Pty. Ltd., are expected to complete construction by the end of September. The total cost is more than \$5,000,000.

A feature of the Computing and Information Sciences building is a 550-seat theatre at the western end of the structure. The theatre is air-conditioned and will be a most useful facility on the campus, other lecture theatres are limited to seating about 200 people.

The auditorium slopes at an acute angle, with the back row of seats approximately seven metres above the theatre floor. The floor has been carpeted.

The theatre, which provides a projection room and advanced communication aids, will be licensed under the Public Halls Act and will be made available to community organisations.

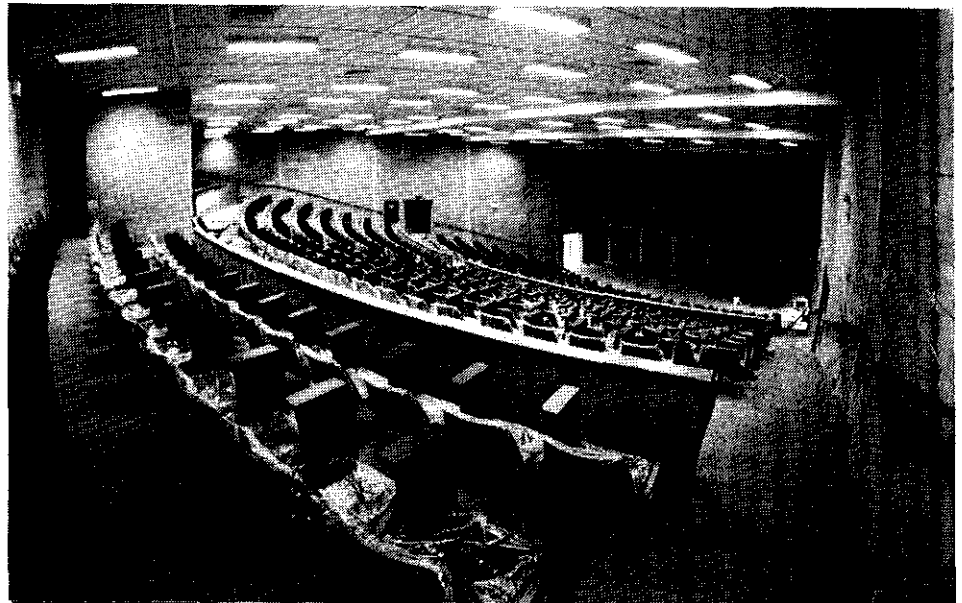
The three storey building contains eight computer laboratories, 16 seminar and multi-purpose rooms, 20 single offices as well as the theatre.

The computer laboratories will be established by transferring micro computers from the Social Sciences and Hunter Buildings, together with new equipment to be purchased.

University Computing Services will be located on the ground floor, including the Help Desk and a small computer laboratory to be used for staff training.

The academic offices in the building will be mainly occupied by staff of the expanded Faculty of Economics and Commerce, following integration with some Departments of the School of Administration and Technology.

Another feature of the Computing and Information Sciences is the foyer linking the computing teaching facilities



The new 550-seat theatre in the Computing and Information Sciences Building near Mathematics

and the theatre. A high mezzanine floor overlooks the foyer.

The vacated computer laboratory spaces in the Social Sciences Building will be converted to academic office space to facilitate this integration.

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Goorie Art Show P2**

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Burns P6**

**Unique facility comes
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**The Department of
Community Programmes,
in association with
Hunter/Central Coast WEA
presents**

**MR LAURIE CARMICHAEL
Assistant Secretary, ACTU**

as the
1990 Eddy Memorial Lecturer

topic
**New Work, New Society,
Implications for Australian Society
of Changing Work Practices**

**8 pm
Tuesday, October 9
Lecture Theatre K202
Medical Sciences Building**

No Charge

All Welcome

Convocation to hold formation meeting

The Convocation of the University of Newcastle will hold its formation meeting in the Staff House on the University campus later this month.

The meeting follows the amalgamation late last year of the Convocation bodies of the former University, the former Hunter Institute and the former Newcastle Branch of the State Conservatorium of Music. Convocation has been governed for nearly 12 months by an Interim Standing Committee which has been working towards the formation meeting.

The Warden of Convocation, Mr Vic Levi, said the meeting would be held on Thursday, September 20 at 7.30 pm.

'It is one of the most important meetings in the history of Convocation, as the body now represents a potential membership of twice the previous number following the amalgamation of the three institutions', Mr Levi said.

'The structure and function of Convocation was recreated by the new University Act last year and the adoption of a new constitution will be sought at the meeting.'

'The Interim Standing Committee has worked hard to draw up and present amended rules and by-laws for the amalgamated Convocation and these hopefully will become law on the evening', he said.

A Deputy Warden and 18 members of a Standing Committee will be elected at the meeting and nominations will be received up until the starting time of 7.30 pm. Other items on the agenda include a report from the Interim Standing Committee and financial statements.

Mr Levi said that Convocation now represented about 20,000 graduates, current and former members of staff and people associated with the University.

Faculty of Social Science

In the new academic structure approved by Academic Senate, the proposed Faculty of Social Science will be one of three faculties in the School of Humanities and Social Science.

The Faculty will include the existing Departments of Sociology and Social Work and staff from the School of Health now teaching the Bachelor of Social Science (Welfare) and the Bachelor of Social Science (Tourism and Recreation).

A meeting of all staff likely to form the new Faculty of Social Science

was held in the Purdie Room of the Great Hall on August 16. Dr Doug Huxley, Acting Vice-Chancellor, attended lunch with the staff and then opened the meeting.

At the meeting, a number of working parties were established to deal with such matters as:

Faculty Structure (Convenor, Mr George Morgan),

Degrees to be offered (Convenor, Professor Lois Bryson),

Admission policy (Convenor, Mr Peter Brown) and,

The location and facilities for the proposed Faculty (Convenor, Dr John Bern).

Staff also elected Professor Brian English, from the Department of Social Work, Chairperson for meetings of the proposed Faculty in the period leading up to formal establishment of the Faculty of Social Science on January 1, 1991.

The working parties have all begun meetings and a number of documents are being prepared as a basis for the formal establishment of the Faculty.

Minutes of all meetings are being distributed to members of the proposed Faculty and to all officers of the University who usually receive Faculty minutes.

Residential staff being sought

Edwards Hall is advertising seven staff positions tenable next year.

The positions are 'after hours' in nature and are available at two levels.

Deputy Warden (one position) and Sub-Warden (six positions).

Applicants should hold a degree or diploma and should be proceeding to a higher degree, or should be a member of the academic staff of the University, or should be engaged in the education profession.

Residential staff provide academic and other assistance to members of the Hall in addition to performing a number of minor administrative tasks. The Deputy Warden provides major administrative assistance to the Warden in student matters.

Further information can be obtained from the Warden of Edwards Hall, Mr M. Blackmore. Applications close on October 8.

Corroboree and Goorie art show

A public corroboree at the University on October 12 at dusk is certain to attract a great deal of attention.

Organised by the Hunter Region Aboriginal Men's Council, the corroboree will bring together around 30 performers

from various parts of New South Wales in traditional body paint.

It will be held at the top of the University plaza to mark the opening of the Goorie Art and Artifacts Exhibition in the Great Hall that day.

The corroboree looks like being a truly memorable event. At a meeting of the organisers only one person said he could remember having seen an authentic corroboree. Mr Leonard de Silva, of Armidale, who is 76, said he remembered a corroboree being conducted at Bellingen in the late twenties, or early thirties. He had attended, along with several thousand other people. Corroborees were sometimes described in the writings of the earliest inhabitants of Newcastle.

Jointly arranged by Newcastle's Awabakal Aboriginal Co-operative, the University's Art Advisory Group and the Wollotuka Aboriginal Education Centre, the art and artifacts exhibition will be on display in the foyer of the Great Hall from October 12 to 16 between 1 and 5 pm.

Organisers are expecting work for display and sale to come from Aboriginal artists and craftspeople throughout New South Wales, including those who live and work in the major urban centres.

Display items will also be made available by the Awabakal Co-operative, Wollotuka and the University's Archives.

Additionally, the Australian Institute of Aboriginal and Torres Strait Islander Studies, Canberra, will provide items for display and sale: audio and video cassettes, maps, posters, publications, etc.

The corroboree and exhibition will be open to all interested people and groups. Each will emphasise the cultural tradition of New South Wales Aboriginal people.

Further details may be obtained by telephoning 68 7713, 26 3494 or 68 7328.

One-day Workshop

A one-day workshop on Life's Transitions From a Jungian Perspective will be conducted on Saturday, October 6, or Sunday, October 7.

Ms Elizabeth Cain will facilitate the day, which will be held at 69 Dickson Street, Lambton, commencing at 10 am.

For further details, please contact either Mary Goldsworthy or Faith Jones at the Chaplains' Office.

Talented students gain art grants

Three University students are amongst 14 art students in New South Wales who have been awarded major grants to assist them in their studies and development of their professional career.

The grants have been made from the William Fletcher Trust which was established in 1985 to preserve and enhance the memory of the Australian artist. The Trust seeks to promote the knowledge of Fletcher's figurative, cityscape and especially wildflower painting and also the high standards which he considered proper for the work of an artist.

The three Newcastle students to receive the grants are Mr Jeremy Flanagan, Ms Genevieve Wallace and Ms Jacquelyn Williams, all in the third year of the Bachelor of Arts (Visual Arts) course.

The Chairman of the Trust, Mr Ken Tribe, travelled specially to Newcastle to present the grants of \$1000 to Jeremy and \$400 each to Genevieve and Jacquelyn.

He said 25,000 calendars were distributed world-wide to provide financial support for the Trust which was doing quite an amount of good in providing a number of small grants instead of a few large amounts.

Grants are made to students enrolled in a painting and/or drawing tertiary course who are in need of financial support to continue their education. Applicants must also show a high degree of talent in their field.

The grants range from \$1000 for candidates of outstanding merit to \$400 to meritorious candidates taking into account the criteria of proven artistic ability and financial need.

Jeremy, Genevieve and Jacquelyn in thanking the Trust all said they were using their grants for the purchase of art materials for either the end of year exhibition, framing or course work.

The William Fletcher Trust increased the number of allocations this year with art students from University of New South Wales (College of Fine Art), University of Sydney (Sydney College of the Arts), and University of Western Sydney (Nepean Campus) also gaining grants.

Mime Artist visits Campus



Mr Gerrard Mikelsons is visiting the University to give lectures on corporal mime and movement.

Mr Mikelsons and Mrs Bernadette Mikelsons lived in London, where Gerrard was a student at the Animate Theatre School of Dramatic Corporal Mime and Bernadette was trained in Speech and Drama at the Guild Hall.

Gerrard explained that corporal mime was mainly based on the innovative work of Frenchman, Etienne Decroux, who taught Marcel Marceau.

The Mickelsons are called Mikelsons Performing Arts when they make stage performance. Gerrard executes mime and movement and Bernadette narrates. They live at Cooranbong.

Mr Mikelsons will give lectures to Primary Drama students in the Department of Cultural and Curriculum Studies and other student groups.

Annual Dinner

University of Newcastle Thursday Social Group (formerly University of Newcastle Women's Group)

The Committee of the University of Newcastle Thursday Social Group invite all interested persons to attend the group's annual dinner to be held on Friday, October 12, in the Staff House at 7 for 7.30 pm.

The cost of the dinner, which includes wine and soft drink, is \$30 per person.

Mr Trevor Waring, Principal Clinical Psychologist for the Hunter Area Health Service, will be the Guest Speaker.

You are most welcome to join us. Acceptances and cheques should be forwarded to: Mrs Lynne Linklater, C/- 18 Carisbrooke Avenue, Kotara, 2289 (telephone 52 3407) by Friday, October 5.

'Light Pen' great aid in Assessing Exams



Dr Peter Pfister (L), Dr Don Munro, Mr Richard Dear and Ms Kerrie Shannon

Imagine a way of assessing examinations that would provide students with a certificate in just 20 minutes and examiners with results, including rankings on a chosen distribution curve, even faster.

When the process used to take two to three months, the productivity saving sounds too good to be true.

But since Dr Peter Pfister and his colleagues working in the Institute of Behavioural Science addressed a problem which had grown out of hand, this quantum leap in psychological ability testing has become a reality.

Their 'light pen' tests have the capacity to save the most precious commodity of all - time. And not just within the University.

In 1982, Dr Pfister, a senior lecturer in Psychology, was approached by an engineering company which had offered about 20 apprenticeships and received about 1,200 applications. How could they identify a viable number of candidates for interview?

He devised a test battery which worked so effectively that more companies began using it and candidates taking 'the University Test', as it became known, reached 3,500 a year.

'We had 52 high schools and 10 CES offices sending kids along,' he said.

'It was almost a community-based project. The companies paid for materials, but all the assessment was done with

volunteer labour. It was taking thousands of hours of work.'

In 1989, when Dr Pfister was on leave, the test was not conducted and its absence highlighted the invaluable community role it had created.

So this year, with a \$90,000 grant from the NSW Education and Training Foundation, Dr Pfister set out ways of reducing the time involved.

With help from the Hunter Technology Group and Newtech Computers, they bought a number of 'light pens' - the same ones used to read bar codes in a supermarket.

Dr Pfister, Dr Don Munro, another senior lecturer, and Ms Kerrie Shannon, a lecturer in Psychology, joined with Mr Richard Dear, a programmer from University Computing Services, to create an ability test battery where the answers could be indicated by running a light pen across a bar code.

'It's just like running a pencil line through an answer, except this is a line of light. No keyboards, no screens. We've already started using it and it appears to take one or two minutes for candidates to get the hang of the pen.'

Just the same for the candidate, perhaps, but answers are recorded instantly and, through matrix processing, the individual's results are ranked instantly on a standard distribution curve for the appropriate age and sex within the

reference group.

Dr Pfister is at pains to stress that his group's new use for an existing technology is not going to replace other forms of assessment.

'It's not the ant's pants: it's just additional information. Companies still rely on the school report and the interview, but based on the ranking they can target the optimal candidates, not necessarily the people who are best intellectually but those whose talents best suited to the position.'

'But it's a great step in manpower planning. Companies can start to interview at this time of year, for instance, instead of having to wait two or three months to get our results. There's no manual processing of the tests at all.'

Obviously, the light pencil tests have potentially wide application.

For a start, Dr Pfister plans to take his laptop computer and 64 light pens to centres as far apart as Grafton and Gosford to conduct tests this year, and a number of organisations which conduct multiple choice tests for various purposes have expressed early interest.

'You can't patent the hardware, of course, because it's existing technology.'

'But the great thing is that the intelligent part, the design of the tests and the software, are all from within this University.'

Letters to the Editor

Dear Sir

In a recent article (BULLETIN No.12) the Resident Engineer for State Highway 23, Mr Kevin Hays, is quoted as saying 'as the project proceeds, fast growing Australian native trees will be planted on the slopes alongside the trees that have been retained'.

I sincerely hope Mr Hays is not beginning to believe the RTA's own publicity. Where has this 'long-standing policy' actually been implemented? Anyone who has viewed the total destruction of this former corridor of bushland could justifiably ask 'where are the trees that have been retained'?

I am pleased to read the RTA's 'long-standing policy is to provide havens for animals'. Bulldozers using chains demolished this area in just two days. So much for the RTA's previous assurances that trees would be checked for wildlife, nesting birds, etc.

Not satisfied with devastating the RTA land, the contractors then moved onto the only remaining open space on the Moore Street side (a Council Reserve) and proceeded to denude that area too. This destruction was only halted after hours of telephone calls to various authorities. The RTA representative (sited only five minutes walk from the area) was unaware of the contractor's actions until residents telephoned him. Still the reserve has not been restored nor saplings replanted.

Local residents upset at the sight of birds returning at dusk to find their 'gums' had disappeared, looked towards the University grounds and seemed reassured the wildlife would find a haven on the campus.

Let's hope these residents do not take too close a look at what is happening on the campus. While we may pride ourselves on our magnificent grounds, one wonders if future generations will have the opportunity to enjoy the tree studded campus as we have done. Trees are disappearing at a rapid rate in the name of progress.

Of course, I am comforted by the assurance that the University is planting new trees - let's hope the wildlife can hibernate for 20 years until these trees are ready to live in.

While I can accept the need to remove trees for building purposes, why have the magnificent gums that grew in the Physics carpark 'died' over recent months? Anyone who has walked that area can attest to the smell of gas that pervades the area. This matter has been reported, but still the gums die. Trees growing near a building site and marked not to be removed, were instead 'lopped' - every branch was removed and some 20

feet of the main trunk lopped. We were told 'it will grow back'. (Do telegraph poles grow?)

Kathleen Dacey

Dear Sir,

On behalf of the Sudden Infant Death Syndrome (SIDS) Council of Australia, I would like to thank all the people who purchased Red Noses, badges or made a donation.

Your combined effort raised \$1,400, which will be put to use in researching the causes of cot death and in counselling parents.

I would like to thank Mr Paul Honeywill for his assistance and members of the Industrial Technology Faculty for their support. I sincerely thank Mr Tony Lieb and Ms Rosemary Roohan for their assistance.

Clint Johns,
Authorised Seller,
Industrial Technology Student

Dear Sir,

The report on the new academic structure for the University (page 4 of the BULLETIN, Number 13), approved by the Academic Senate, concluded with a short, confusing paragraph which refers to a specific amendment not previously mentioned in the report. The commentary on the mysterious amendment is also misleading and, as the mover, perhaps I should clarify what was intended.

Staff of both the existing School and the Faculty of Education had agreed on an interim structure which allowed for two Faculties. It was agreed in further discussions that a review of structures within the School (to be undertaken in three years) would result in a single Faculty. This was the essence of the amendment I moved - that Education be given the same time consideration as Medicine and Health Sciences to finalise a new structure, rather than to move into a single Faculty from the beginning of 1991. The amendment was lost.

Finally, the implication of the final paragraph in the report is that I suggested that the Faculty and the School should remain separate for a period within the new School. This is misleading. The Faculty structure within the School which we recommended located the Department

of Education (from the old University) in the same Faculty as two Departments from the previous HIHE. In this respect, any inference of exclusivity, even in the short-term, is unjustified.

Sid Bourke,
Dean,
Faculty of Education

Science magazine's new ventures

The leading international science magazine, *New Scientist*, has commenced publishing a monthly supplement for Australia and New Zealand.

The magazine is also conducting a survey among 4,500 selected scientists, engineers and administrators from all universities on careers and opinions.

New Scientist began weekly publication in England in 1956. It has been published in Australia since October, 1988, and has almost doubled its circulation here in that time.

The aim of the supplement is to address issues that affect universities and the people with whom they deal regularly - schools, government, industry, employers, CSIRO, and other teaching and research organisations.

Mr Tim Thwaites, formerly Information Officer at Monash University, has joined the *New Scientist* office in Melbourne to help produce the supplement.

New Scientist believes it is the first time that such an extensive survey has been held into the attitudes and backgrounds of scientists within Australian and New Zealand universities. The responses to the survey - which is anonymous - will form the basis of articles for inclusion in *New Scientist*.

Invitation to Churches gathering

Members of the University have an opportunity to be involved in the World Council of Churches Assembly to be held in Canberra next February.

The World Council of Churches is composed of over 300 member churches including the Anglican, Baptist, Churches of Christ, Eastern and Oriental Orthodox, Friends, Lutherans, Uniting and a number of Pentecostal and Independent churches. The Roman Catholic church is an active observer and works in co-operation with the council in many areas.

The objectives of the assembly are:

- . To celebrate and encounter Christ with sisters and brothers, young and old, from South Africa to Tonga, Canada to East Germany, Malaysia to Ireland.
- . To assess the common witness of the Christian family.
- . To plan ways in which we can witness to Christ in the future.
- . To worship and pray together.
- . To study the Word of God and learn from each other's insights.

If you would like to attend the assembly (February 7 to 20), please get in touch with Mary, Faith or Damien, C/- the Chaplains' Centre (telephone 68 5204).

'The Kid'

As the BULLETIN was going to press, the Department of Drama was beginning its stage production of *The Kid*, by Michael Gow. The play began in the Green Room on September 18 and will finish on September 22.

The production is entirely student-controlled - from direction to poster design.

The Kid is a bleak play, set in Sydney, about a group of young people who, through a series of events, lose hope in the world.

Mr Glenn Hazeldine initiated the project, along with Ms Michaela Bolzan. Together they assembled the cast, which includes Mr John Galagher, Mr Michael Lill, Ms Kate Sweeney, and the only non-student, Mr Robert Simm.

"We wanted to prove to other students that it is possible to do your own show", Mr Hazeldine said.

"We also wanted to demonstrate that academic study can be put into practice".

'Knowing the enemy within'



Professor Gordon Burns delivering his Inaugural Lecture

Excellent Response at Information Night

The increasing interest of mature age people in tertiary education was reflected in the attendance at the University's 1990 Information Night last week.

The evening, held mainly to assist people seeking non-standard entry next year, attracted large crowds throughout its duration with inquiries spread across most of the University's courses.

Adviser for Prospective Students, Ms Julie Swain, said more than 225 application forms were handed to prospective students in a little over a two hour period.

"The response was excellent with enquiries being received for both undergraduate and postgraduate courses while many people were asking for information on the Open Foundation course," Ms Swain said.

"We also received a number of enquiries from Year 12 students who were seeking last minute information before they sit for the HSC and overall most Faculties and Schools were kept busy handling general course inquiries and also distributing information on adult entry."

Professor Gordon Burns, Professor of Cancer Research, took the opportunity to present an overview of what is being done in research and the processes leading to cancer when he gave his *Inaugural Lecture* on August 29.

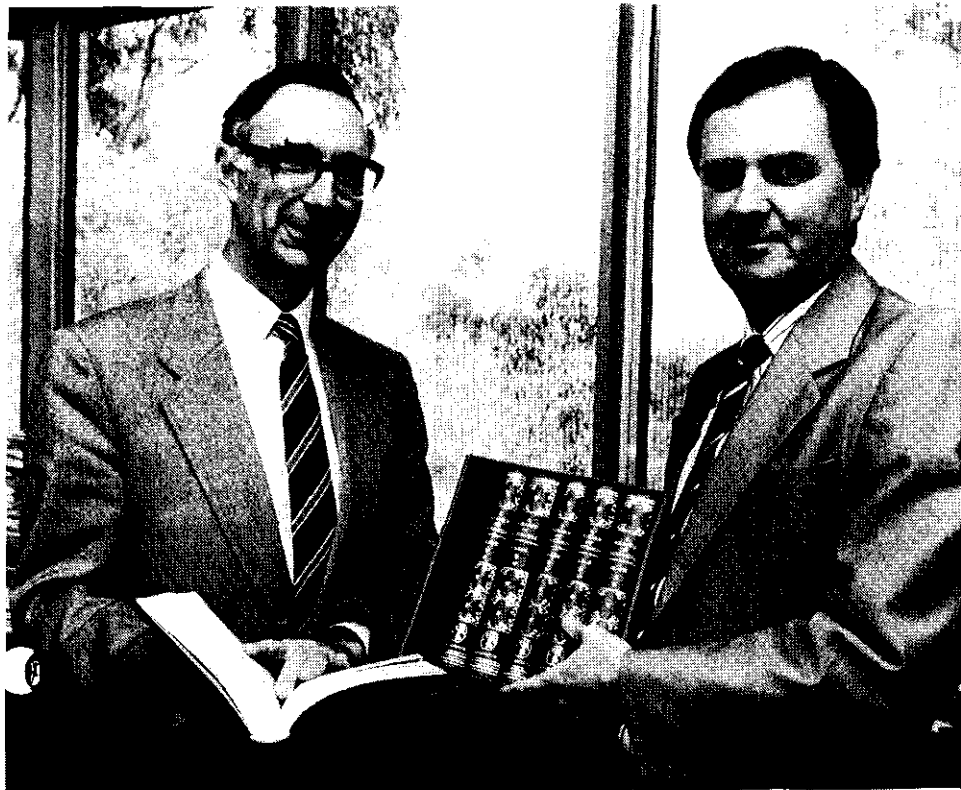
Professor Burns' research is the outcome of the establishment of his Chair and the provision of research staff and facilities by the NBN Telethon Trust, which allocated \$1,500,000 from monies contributed by the people of the Hunter Region to two Telethons.

Speaking on the topic, *Knowing the Enemy Within*, Professor Burns said there were many types of cancer research. What drove other researchers so hard was the quest for knowledge. It was like a physicist learning about the structure of the atom.

Explaining why Newcastle should still support fundamental cancer research even though similar research was going on elsewhere, he said massive steps had been taken in the last decade, but none had been a breakthrough. Every researcher had to play his or her part.

"As for the question, will we find a cause for cancer I say we certainly know a lot more about it now", he said.

Association 'Greatly Appreciated'



celebrate the 30th anniversary of the Co-Op Bookshop on campus, the General Manager of the Co-Op, Mr Jack McLoone, presented the Vice-Chancellor recently with a leather-bound edition of Manning Clark's History of Australia, one of only 200 such sets published.

Mr McLoone said the Co-Op had maintained a presence on the campus of the University since it was located at Tighes Hill

and greatly appreciated its association with the University.

Dr Metherell spent two hours on questions

Two researchers from the Department of Educational Studies recently interviewed Dr Terry Metherell, former New South Wales Minister for Education, in connection with one of the changes made by the State Government in the management of schools.

Dr Stephen Crump and Ms Melissa Monfries, Lecturers in Educational Studies, have been researching the subject, with particular emphasis on the micro-politics of decision-making in the Leading Teacher position.

Dr Crump and Ms Monfries interviewed Dr Metherell about the genesis and development of the change (the establishment of the Leading Teacher Position), given the role Dr Metherell played as the catalyst for all the recent

reforms.

They remarked that it was highly desirable to include his views, as one way of ensuring the validity of the data gained from other sources, which included Leading Teachers, members of the school community and international research on similar contexts.

Despite Dr Metherell's recent departure from the portfolio, the researchers found that he remained enthusiastic about, and committed to, the reform package he initiated. Dr Metherell had spent nearly two hours answering questions, asking for results from the study and swapping observations about

the effectiveness of his policies.

The interview was taped and transcribed and then sent back to Dr Metherell for co-editing.

Further interviews to be conducted by Dr Crump and Ms Monfries will include the people appointed Hunter Region Cluster Directors and the new Minister for Education, the Hon. Virginia Chadwick, as well as other major figures in the Department of School Education and the business community.

This research is helping to form the basis of a model of executive teacher roles and decision-making processes which will

form part of the coursework for the new Doctorate of Education course, Leadership and Management in Education, which will begin next year in the Faculty of Education.

The research began in 1989 as a pilot study approved by the Department of Education. It was funded in 1989 by a G.H. Duncan grant and in 1990 by a Schools Research Fund grant. Dr Crump said the field of study was relevant in the contemporary state context given the current major organisational and directional changes in government schools, to the restructuring of the education industry and to national directions as indicated in DEET's Quality of Teaching Report.

Dr Crump and Ms Monfries will present papers on their research to the Australian Council for Educational Administration Conference to be attended by over 600 people in Hobart on September 29 and the Australian Association for Research in Education conference at the University of Sydney on November 28.



Dr Stephen Crump and Ms Melissa Monfries

Unique spectrometer comes to Uni



Dr von Nagy-Felsobuki and Mr Neil Keats installing the photoelectron spectrometer. Mr Keats, a former Professional Officer in the Department of Chemistry, is employed on research infrastructure funds.

The University has acquired the only molecular beam/angular resolved photoelectron spectrometer in Australia.

The high performance instrument, which has a replacement value estimated at \$250,000, will be used by the Department of Chemistry to carry out experiments in ultraviolet photoelectron spectrometry.

With modifications, the photoelectron spectrometer will be capable of performing experiments in x-ray spectrometry, ionisation and laser induced fluorescence.

The Department acquired the instrument with an \$80,000 Area of Research Excellence grant from the University.

Dr Ellak von Nagy-Felsobuki, who has been active in the photoelectron spectroscopy field for a number of years, said the instrument was a unique national research facility and although installation had not yet been completed, interest had been shown in Australia and overseas in collaborative research.

Professor Noel Hush built the expensive photoelectron spectrometer in his laboratory at the University of Sydney. On Professor Hush's retirement this year, it became possible for this University to acquire the instrument.

As a researcher, Dr von Nagy-Felsobuki has applied photoelectron

spectroscopy to unravelling the gas-phase electronic structure of atoms, unstable or transient molecules and stable organic molecules of biological interest.

In 1988, with the arrival of a gas-phase photoelectron spectrometer (acquired from the CSIRO), photoelectron research began in the Department of Chemistry, in collaboration with Associate Professor L.A. Summers.

Currently, Mr Simon Dunne's PhD project is centred on this instrument.

Furthermore, in 1989, Dr von Nagy-Felsobuki was invited to take up a Professorial Fellowship at the Institute for Molecular Science (Myodaiji, Japan) to work with Professor Katsumi Kimura on molecular beam/synchrotron studies of hydrogen bonded clusters using mass spectrometric and photoelectron techniques.

Dr von Nagy-Felsobuki will focus the instrument's capabilities on determining the UPS (ultra-violet region) of gas-phase molecules (effusive beam), UPS of cluster molecules or van der Waal's complexes produced by a supersonic molecular beam, UPS of molecules/polymers adsorbed on various substrates (e.g. metals, thin-films, silicon wafers etc.), angular-distribution measurements of all the above experiments and mass spectrometric analysis of the above experiments.

With minimum equipment modification, the facility will be capable of carrying out x-ray photoelectron spectroscopy, electron-ion coincidence experiments and mass spectrometric time-of-flight experiments.

With the acquisition of YAG laser/dye laser system, the facility is capable of performing one or two colour multiphoton ionisation experiments and with more extensive modification the facility is also capable of performing laser induced fluorescence.

Any research group or researchers who want to see the photoelectron spectrometer can get in touch with Dr von Nagy-Felsobuki at Extension 538.

'Gordon-style' chemistry conference

Members of the Chemistry Department, Drs Geoff Lawrance and Ellak von Nagy-Felsobuki, PhD student, Mr Simon Dunne, and Associate Professor Kevin Bell, attended a 'Gordon-style' chemistry conference at Bowral in September.

The venue was Milton Park - a restored mansion, built by the Hordern family of retailing fame.

Attendances at meetings of the national chemistry body, The Royal Australian Chemical Institute, have grown in recent years to at least 1,000 people and there is a need for smaller, specialist conferences.

This one, limited to 50 selected participants on the theme of Heterocyclic Chemistry, was highly relevant to the Chemistry Department, which has this as one of two major research areas.

Dr Lawrance presented an invited lecture on Metal Directed Synthesis of Large and Small Polyazacycloalkanes.

Mr Dunne and Dr von Nagy-Felsobuki presented a paper on Ultraviolet Photoelectron Spectra of Oxy- and Thio-bis Pyridines.

Professor Bell gave a paper on Chlorosulfination of Heteroaromatics.

Bill Doniela returns to give address

The Newcastle Group of the Australian Institute of International Affairs will hold its next dinner meeting in the Staff House on October 5 at 6 pm.

Mr Bill Doniela, who retired in 1988 as Associate Professor in the Department of Philosophy after nearly 30 years of service and who is an acknowledged authority on the writings of Hegel, will be the Guest Speaker.

Born in Lithuania, Dr Doniela emigrated to Australia and later attended the University of Sydney, studying under John Anderson, and graduating BA (1954) and MA (1956). He was awarded a doctorate at Freiburg in 1959, the year in which he joined the then Newcastle University College.

His topic will be 'The Soviet Union Today' and is based on a long visit to Eastern Europe in the middle of this year and other visits in recent years.

Music Making at the Con

Wednesday, October 3, 1.10 pm

Michael Deasy (organ). Respected organist and choirmaster of St. Andrew's Cathedral, Sydney. \$2 and \$1 concession.

Wednesday, October 3, 1.10 pm

Michael Deasy (organ). Respected organist and choirmaster of St. Andrew's Cathedral Sydney. \$2 and \$1 concession.

6 pm

Composing for Today - Ros Brandt is our artist in the third of the Contemporary Composers Series. \$5 and \$3 concession.

Thursday, October 4, 1.10 pm

Carmel Lutton (piano). Beethoven and Chopin. \$2 and \$1 concession.

Saturday, October 6, 10 am to 8 pm

Hunter Brass Extravaganza. Workshop-Masterclass-Concert for students and lovers of Brass.

Open Day drew strong response



Responding to the theme, Engineers Look Ahead, an estimated 1,000-plus visitors saw a wide range of high-quality exhibitions and displays in the Faculty of Engineering on Open Day 1990 (September 9).

Lecturer in Electrical Engineering and Computer Science, Mr Ian Webster, is pictured showing a group of visitors an adaptive antennae array processor.

University 'phone number change

While the University awaits the installation of a new PABX telephone system, it has been announced that it will be necessary to change the University's 'phone number.

TELECOM has allocated the University number 21 5215.

The Manager, Buildings and Grounds, Mr Maurie Edmonds, said that the new PABX would provide the University with access to Integrated Services Digital Network (ISDN) technology.

He said the consequences of having ISDN, which brought voice and data transmission capability to the telephone system, included the need to change the University's present numbers (68 0401 and 67 1388).

When interviewed by the BULLETIN, Mr Edmonds had not been advised of the new 'in dial' prefixes (presently 685 and 687) and the new Fax configurations.

Mr Edmonds said that because the new numbers were not absolutely certain departments should delay ordering their letterheads and other material until they knew.

The expected completion date for the installation of the PABX system is the end of October.

Interested in a scholarship?

The details of the following scholarships available for students studying at the University are shown on the Scholarships Flyer displayed on noticeboards in various places on the campus. The Scholarships Office in the Hunter Building can further advise interested students.

University of Newcastle Postgraduate Research Scholarships. Closing date: October 31.

Leslie Vacation Scholarships, Australian Cancer Society. Closing date: October 1.

1991 Postgraduate Scholarships in Telecommunications. Closing date: November 2.

1991 Fulbright Awards. Closing date: September 30.

CSIRO PhD Scholarships for 1991. Closing date: November 23.

Milthorpe Memorial Award. Closing date: January 31.

OFFICE FOR RESEARCH

Information on the following grants has been circulated to Heads of Relevant Departments and is contained in 'NEWS' on the VAX cluster. Further information and relevant application forms are available from the Office for Research - telephone 68 5302.

Granting Body and Closing date (to Office For Research)

SIDS (Sudden Infant Death Syndrome) Research Grants and Fellowships
September 18.

To promote and assist scientific and medical research related to the possible causes, effects and prevention of SIDS.

DITAC Bilateral Science and Technology Program

September 19

For collaborative research between Australia and other countries in science and technology for academic and industrial applications.

Egg Industry R&D Study and Training
September 19

Junior Research Fellowships, Postdoctoral Fellowships, Extension Study/ Training Awards, Officer Development Awards, Industry Personnel Development Awards.

Child Accident Prevention Foundation of Aust. (No deadline)

Funding/Support in the area of accidents and intervention strategies.

Japan World Exposition Commemorative Fund 1991 Grants

September 19

For projects under the theme 'Progress and Harmony for Mankind'.

Lillian Roxon Memorial Asthma Research Trust

September 20

Overseas travel.

Research Management Committee Project Grants

September 30

Funds allocated from within the University.

Waste Minimisation for Hazardous Waste
October 22

Waste minimisation and recycling of hazardous wastes.

Australian Meat and Livestock R&D Corp

October 22

Studentships; Junior Research Fellowships and Study Awards.

The Canada Australia Bicentennial Institutional Research Award

October 24

(CABIRA) Canadian topics within the social sciences and the humanities, interdisciplinary studies, comparative studies and Canada's bilateral relations.

Rebecca L. Cooper Medical Research Foundation

October 31

Arthritis, diabetes, schizophrenia, lung diseases (excluding cancer) and medical applications of genetic research.

Wellcome Australia Medal & Award Human Health

November 7

Research Management Committee Areas of Research Excellence

November 30

To lift the research profile of the University and enable researchers to attract large external research grants

UTAH Foundation (apply anytime)

Medical, arts, scientific, technological, museums, conservation, crafts, social sciences, humanities, publishing, literature, conferences and symposia.

Australia Council Aboriginal Arts, Community Cultural Depending on area of development, literature, performing arts, grant, between March visual arts/craft and December. Some areas have no closing date.

Australian Academy of Science, Overseas Exchanges:

United Kingdom scientists September 26,
Japan scientists October 29, China
November 26.

Fulbright Awards varies September to November.

For study, research and lecturing in the United States of America.

CSIRO Postdoctoral Awards

September 20.

McNamara Fellowship October 1

Postgraduate research in the areas of

economic development.

Victoria University Postdoctoral Fellowships

October 1

Postdoctoral Fellowships at the Victoria University, Wellington.

J. Paul Getty Postdoctoral Fellowships

October 29

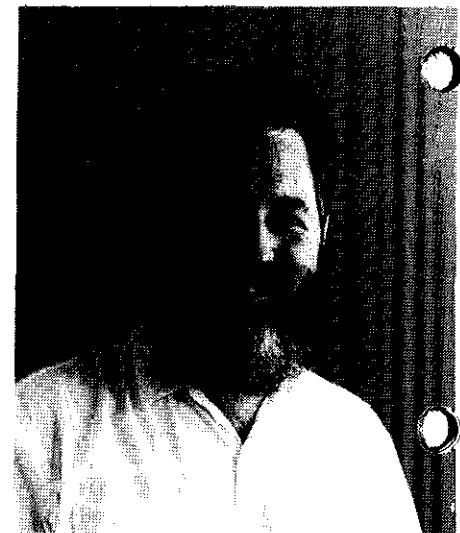
History of Art and the Humanities.

Canadian Studies, Faculty Enrichment Awards (FEA)

January 17, 1991

To assist academics in developing and teaching courses about Canada in their own discipline.

Lecturer's links with North Coast



Mr Keith Russell

Mr Keith Russell, Lecturer in Writing in the Department of Expressive Arts and Design, was recently invited to contribute to a Higher School Certificate study day on the far North Coast.

Born and educated in Casino, Mr Russell was excited by the opportunity to lecture on the poetry of Blake, Frost and Lowell to students from the Richmond Valley and to establish a University of Newcastle connection with North Coast English teachers.

The series of lectures, organised by the Lismore and district branch of the English Teachers' Association, was attended by more than 300 students.

Mr Russell said it was hoped that in 1991 a larger contingent from Newcastle could make this University's courses known in the North.

1991 Scholarships

Applications are invited for the University's Postgraduate Research Scholarships (UNRS) for 1991.

Scholarships are tenable at the University of Newcastle for full-time candidature for a Research Masters Degree or for the degree of Doctor of Philosophy.

Benefits include a living allowance of \$A12,734 per annum, travel allowance, establishment and thesis allowance.

Overseas students are eligible to apply.

Applications are invited for Australian Postgraduate Research Awards (APRA) from students proposing to enrol in a Postgraduate Research Masters or for the degree of Doctor of Philosophy at the University of Newcastle in 1991.

The awards are open to Australian citizens and permanent residents who have lived in Australia for the past 12 months as at the closing date for applications.

The objective of the APRA scheme is to prepare high calibre students for research. Applicants must satisfy the admission requirements for research Masters or PhD candidature, and other requirements stipulated by the conditions of the award.

The National Health and Medical Research Council is offering Biomedical Postgraduate Research Scholarships.

The scholarships are available to science graduates who are Australian citizens and graduates from overseas who have permanent residence status and who are currently residing in Australia.

The living allowance is \$12,734 per annum.

The closing date is October 19.

Guide to Art Collection

The University has published a catalogue of its art collection.

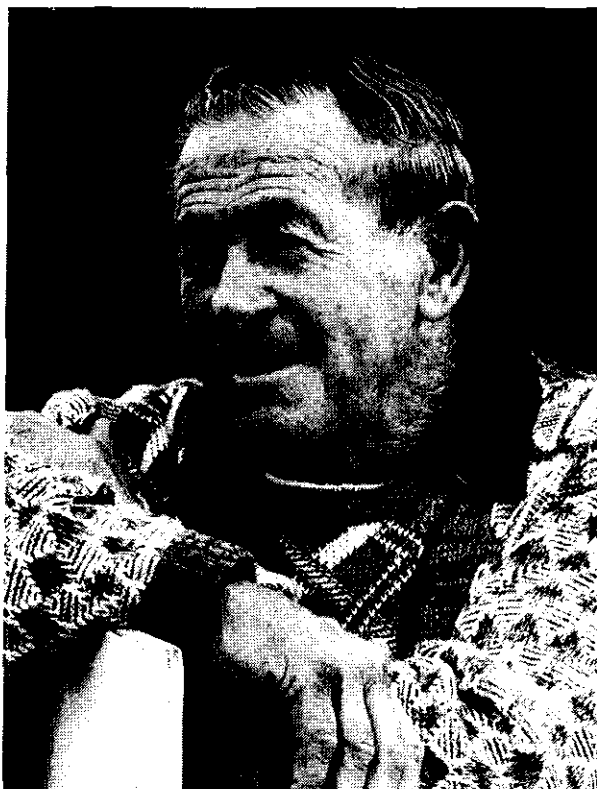
Titled *Pictures From the Fine Art Collection*, the glossy booklet is a comprehensive list of the works in the collection, enlarged by amalgamation with works from the former Hunter Institute and the Conservatorium.

The 35-page catalogue contains separate plates for the 60 paintings, prints and drawings recently shown in the exhibition of the University's collection. More than 20 are in colour.

Both the exhibition and the catalogue were organised by the Art Advisory Group to occur during the University's 25th anniversary year and in the first year of amalgamation.

The catalogue can be obtained from the Gift Shop in the University Union, from Ms Christa Moch, Vice-Chancellor's Unit, McMullin Building (telephone 68 5535) or from Ms Elizabeth Suggit, Property Services, Hunter Building (telephone 68 7713). It sells for \$10.

Sports Centre identity retires



Mr Tom McMahon

Mr Tom McMahon - ex-boxer and ex-rugby league player - enjoys a workout in the gym. That being the case, as Manager of the Auchmuty Sports Centre, he exercised for years on the punching bag and the arm bars.

Mr McMahon was known to innumerable students and staff who for the past 14 years used the indoor facilities at the Sports Centre.

He helped to foster health and fitness on the campus by virtue of his position and the fact that he is a qualified weight training coach.

He said he had been interested in sport since he was a kid. He had not only played first grade rugby league with Maitland but also enjoyed swimming, boxing and running. He is a keen supporter of the Knights.

Mr McMahon retired on September 7 and a luncheon to farewell him was held by the Sport and Recreation Office.

The Dean of Students, Professor Ken Dutton paid tribute to Mr McMahon and made a presentation to him on behalf of the representative gathering.

New teaching opportunity

The University is investigating the possibility of opening a new pathway for people who hold Associate Diploma or Certificate qualifications in the engineering field to re-train to become Industrial Arts Technology teachers in high schools.

The University is currently calling for expressions of interest from people who hold the above qualifications with the view to starting a class in 1991.

A Bachelor of Education (Industrial Arts Technology) is offered by the University through its School of Education and people who qualify through the above conditions will be given advanced standing in the four year full-time course.

The Course Director, Mr Barry Abelson, said that successful candidates would study part-time in the first year and then full-time for the remaining three years to gain their degree.

'The University is always looking at ways of providing opportunities for people to come into the teaching profession and our research has shown that there is a market of people with an Associate Diploma or Certificate qualification in engineering who may be looking for a new career', Mr Abelson said.

'We need a minimum of 16 students who qualify under the criteria to start a class next year and we are seeking expressions of interest before we commit ourselves to offering this special program.'

The University has reviewed its degree course and has changed the title from Industrial Arts to Industrial Arts Technology because of the rapid advance in technology in the past few years and the resultant effect on teaching Industrial Arts in high schools.

The advent of technology high schools and the impact of technology on everyday lives has created a change in emphasis in secondary education and these changes are reflected in the new course program.

ADVERTISEMENTS

For Sale

Moving Sale (owner going overseas): Pierre Vandel - Paris coffee table, \$180; dressing table, \$50; Rover 220 lawn mower, \$160; Craftsman whipper-snipper, \$80; Malleys washing machine, \$200; Hoover Convertible Delux upright vacuum cleaner, \$150; National vacuum cleaner, \$30; Kambrook deep fryer, \$30; GE toaster, \$10; Braun hair-setting set, \$30; clothes dryer, \$60; iron, \$10; and three table lamps. Please telephone Paul at 685 264 or 51 4921 after hours.

Washburn electric acoustic guitar with cut away in immaculate condition. Asking price: \$900. Please telephone Ena Mawer at 68 5544 (business hours) or 51 2173, 67 2204 after hours.

1981/82 metallic silver Corona station wagon (five speed) in excellent condition with extras. Asking price: \$6,250 or near offer. Please telephone 52 7090 after hours.

Antique chest with pine drawers and brass handles, \$150; medium size bookshelves, \$65 (near new); Morcut grass slasher motor, \$60 (near new). Please telephone 68 5679 or 68 5560.

HMV colour television (good picture). Asking price: \$100. Please telephone 52 2462 (after hours).

Safe-n-Sound baby capsule, \$35; cradle with mattress and linen, \$75. All items are in excellent condition. Please telephone Di at 69 3935.

1977 Toyota Corolla manual sedan with reconditioned motor and no rust. Registered to November 1990. Asking price: \$2,000 or near offer. Please telephone Ros at 68 5519.

Citizen S4 electric typewriter (Helvetica type face) in excellent condition with one new ribbon plus one spare ribbon. Asking price: \$150 or near offer. Please telephone Jill at 68 5630.

Latest model ME200 Electronic Yamaha organ with slide top in as new condition, beginners and some music books and ear phones included. New price without extras

\$3,500. Sale price: \$2,500. Please telephone 68 5705 or 52 1251 after hours.

Wanted to Rent

Caring family requires holiday house in the Foster, Port Macquarie or The Entrance areas in late-December to mid-January period. Must be able to accommodate six. Please telephone Denise at 68 5746 or 48 6049 after hours.

Position Wanted - Baby Sitting/Child Minding

Reliable and responsible 17 year old girl with drivers' licence willing to baby sit your child during week nights and weekends at very reasonable rates. Please telephone Rebecca at 58 2850.

'GOORIE ART AND ARTIFACTS' and PUBLIC CORROBOREE



The Awabakal Aboriginal Co-operative, the University Art Advisory Group, and the University Wollotuka Aboriginal Education Centre present for display and sale an exhibition of work by Goorie artists and craftspersons, including objects, images, weapons and implements, in the GREAT HALL of the University of Newcastle from OCTOBER 12 to 16, 1 to 5 pm together with a

PUBLIC CORROBOREE

(perhaps the first of its kind), organised by the Aboriginal Men's Council, involving performers from all parts of New South Wales.

OCTOBER 12 at dusk
in the grounds of the University
Enquiries: 68 7713

Awards for women to visit the USA

The American Association of University Women Educational Foundation has announced its 1991-1992 International Fellowships for women who are not citizens or permanent residents of the United States.

The fellowships are for graduate study, or research, in the United States and carry a stipend of \$13,000.

One of the fellowships, the June and Charles Ross International Fellowship, is awarded annually to an Australian woman working in the Biological or Physical Sciences. When candidates are of equal merit, preference will be given to a graduate of the University of Sydney.

Applicants for all international fellowships are judged on their academic records, their letters of recommendation, the importance of their work to their home countries, and their professional potential.

Upon completion of studies, fellowship recipients must return to their home countries to pursue a professional career; preference is given to applicants who can verify that there is a definite position to which they will return.

Strong preference is given to women whose credentials prove prior commitment to improving the lives of other women and girls through civic, community, or professional work and whose study or research proposals show a continued interest in the advancement of women.

The Pro Vice-Chancellor (Development), Mr Les Eastcott holds material on the fellowships. Enquiries should be made to him (Hunter Building, telephone 68 7311).

7th Newcastle Microcomputing Exhibition

Friday, September 21 - 9am to 5pm
Saturday, September 22 - 9am to 5pm

VENUE: Hunter Building - University of Newcastle

The latest in microcomputing hardware & software