

BULLETIN

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Much needed extensions to child care centre

Work on extensions to Wonmayba Child Care Centre - one of the University's two community-based centres - is expected to be commenced in the long vacation.

Estimated to cost \$220,000, the extensions should be ready for use by mid-1991.

The extensions provide a total of 303 square metres of additional floor space, comprising three rooms - for children under two, children two to three and children three to five.

The extensions will alleviate some of the critical demand for child care places presently coming from the community, although the centre is expected to continue to have a long waiting list of applications.

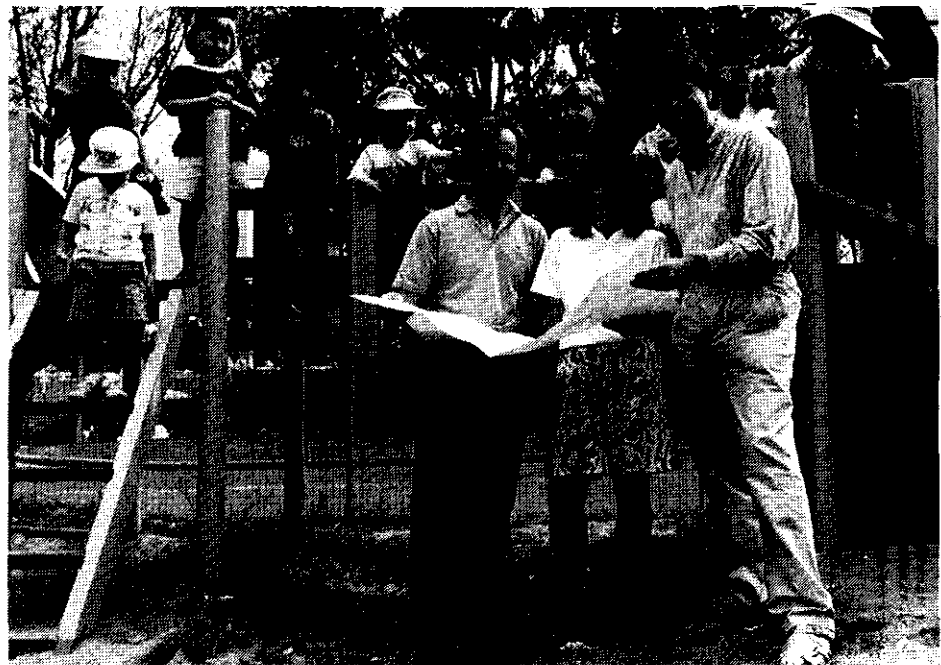
As the centre is partly funded by the government, the staff and students of the University do not have priority in the allocation of places.

Wonmayba now provides care for 25 children. As the result of the construction of Stage II, it will accommodate 40 children.

Originally the residence of the Caretaker of the former CAE, the child care centre was opened in 1984. Wonmayba means 'a gathering place of small children' in Awabakal.

Being a community-based centre, Wonmayba is administered by a management committee representing parents and the community. A representative of the Newcastle University Students' Association is included on the committee because the association provides sponsorship. Mr Tony Proust is the Chair of the Management Committee.

The Director, Ms Debbie Quirk, has a staff of five - a Mothercraft nurse and a child care worker work in the Nursery and the Director, who is a teacher, a child



The Director, Ms Debbie Quirk, with two members of the Executive Committee, Mr Alan Chawner (left) and Mr David Rowe (right).

care worker and an assistant work in the Older Room.

The centre opens from 8 am until 5.30 pm daily for 48 weeks of the year.

Ms Quirk said the Department of Community Services and Health, which partly funded the operations of the child care centre, had a big say in the provision of facilities. The Department allocated the licence.

Ms Quirk said that approval of the extensions was long-awaited and things at the centre would be much better when the work was completed.

"We will concentrate on the area least provided for at the moment - the nursery - and we look forward to having the improved facilities".

Parents wishing to enrol their children could obtain application forms from the child care centre.

For places for children under two there is presently a waiting list of about two years.

In This Issue

Staff House's a.g.m.

- Page 2

Very fast computer

- Page 3

Professor's first novel

- Page 5

Play centre donated

- Page 12

'Staff House aid to fellowship'



Professor Barry Boettcher

Amalgamation has increased the number of potential members of the Staff House.

According to the President, Professor Barry Boettcher, there are still many members of the University who are not members of the Staff House.

In his report on the past year to the annual general meeting on November 15, he requested all members of the Staff House to urge non-members to join.

"I consider that not only would this be enjoyable and beneficial for them, but, also, increased membership will improve the fellowship within our academic community and, in turn, assist the activities of the University and the local community".

Professor Boettcher pointed out that the Deputy Chancellor, Dr Peter Hendry, had expressed his wish to see rejuvenation of the old concept of a university student - learning while making friends, playing sport and taking part in campus life.

"In this respect, I consider that all of us consider that the Staff House serves a traditional role in our University. It is an integral part of academic life, and a place where one can make friends and extend academic interests and activities".

The catering within the Staff House had drawn many favourable comments, and deservedly so, he said.

The numbers of functions had increased, and this was reflected in the club's finances.

In return, the increase in activities had enabled a number of improvements

to be made - in the kitchen and servery.

Additionally, the Staff House had a very good sound system, which enabled background music to be played and also provided a cordless microphone for speeches.

"The committee looks forward to increasing Staff House facilities as finances permit, and is currently investigating the possible replacement and upgrading of chairs and furnishings. This is another reason for urging an increase in membership".

Professor Boettcher said that early this year a very successful Art Advisory Dinner was held in the Staff House. The function restored one of the traditional events in the University, and reflected the realisation that, in recent years, some of the traditional roles and values in universities had not received appropriate recognition and support.

It was with deep sadness and regret that Professor Boettcher had to record that two of the club's active members passed away during the year - Mr Aub Everett and Mr Dick Bartlett.

The election of officers for 1991 resulted: President, Professor Boettcher, Vice-President, Professor Frank Bates, Secretary, Mr Bob Mackie, Treasurer, Mr Neil Gardner, Committee, Mr Graham Gilchrist, Mr John Armstrong, Dr Don Matthews, Ms Jenny Scobie and Assoc. Professor Norman Talbot.

No problems with Telecom's service

Referring to a report in BULLETIN No.17, the Manager, Buildings and Grounds, Mr M.E. Edmonds, said no problems had been experienced with Telecom's service to the University associated with the installation of the new PABX telephone system.

The report had claimed that the new switchboard would be installed and operating later than expected because of problems associated with Telecom.

Mr Edmonds said in fact the delays were a result of problems associated with external telephone cabling from the PABX to University buildings.

Space plasma waves study in the USA



Professor Brian Fraser

The Head of the Department of Physics, Assoc. Professor Brian Fraser, will spend next year on an Outside Studies Program in Boston in the United States.

Professor Fraser has been awarded a National Research Council-Air Force Systems Command Research Associateship at the Geophysical Laboratory at Hanscom Air Force Base. The National Research Council, the principal operating agency of the US National Academy of Sciences, was established to serve US government organisations.

Concurrently, Professor Fraser has been appointed as a Research Fellow in the Centre of Space Physics at Boston University.

Professor Fraser's research will involve the study of ultra-low frequency space plasma waves observed by the Combined Release and Radiation Effects Satellite (CRRES), which was launched in July, 1990.

The research will be in collaboration with Dr Howard Singer, of the Air Force Geophysics Laboratory, and Professor Jeff Hughes, of Boston University.

CRRES is an elliptically orbiting spacecraft designed to observe the plasma properties of the earth's inner magnetosphere.

As a consequence of his research in Boston, Professor Fraser will return to Newcastle with CRRES spacecraft data for integrated studies using ground-based data recorded in Australia and Antarctica by the Physics Department's Space Plasma Wave research group.

Very fast computer in EE&CS

A computer which is one of the fastest in Australia is being used by the Department of Electrical Engineering and Computer Science to address a research problem.

Belying its speed and versatility by standing only 90 cms high, the state of the art massive parallel computer is on long-term loan from the Digital Equipment Corporation (Aust.) Pty. Limited.

It was designed and built by MasPar Computer Corporation, of Sunnyvale, California and is valued at \$US250,000.

The MasPar Mp-1 has more than 2,000 processors and can solve problems spanning a large and diverse range of applications.

These include market research, medical imaging, oil reservoir simulation, stress analysis, seismic processing, modelling of high temperature superconductors, signal processing and computer animation.

Digital has made the computer available specifically to give members of a research team the necessary resources in massive parallel computing to allow them to solve a complex signal processing problem associated with radar tracking.

The research team received a grant of \$50,000 through TUNRA to find algorithms suitable for tracking aircraft and ships using a high-frequency over-the-horizon radar.

One of the team, Professor Rob Evans, Professor of Computer Engineering, said the problem existed because of the severe clutter levels (or unwanted reflections) shown by this kind of radar.

Dr Jeff Fier explained that many of the returns which came back from the radar were really only noises. In addition, he said the returns associated with real objects did not appear where the objects really were.

"We have to take information from one scan time and compare it with a previous scan time, filtering out the noise and establishing which returns correspond with real objects".

Professor Heiko Schröder, Professor of Microelectronics, said the MasPar MP-1 could outperform many supercomputers, including the CRAY 1. It could address certain applications, such as signal processing, and achieve results quicker and cheaper than other computers.

Professor Schröder said the demand for ever-increasing computer power would be met by the use of



Pictured with the MasPar Mp-1 are (back): Professor Rob Evans and Dr Bryan Beresford-Smith; (front) Dr Jeff Fier and Professor Heiko Schröder.

massively parallel systems. The MP-1 incorporates many hundreds of VLSI (very large scale integration) circuits, each of which contains 32 processors and 500,000 transistors.

Dr Fier visited the University for seven weeks on a special assignment for the MasPar Corporation. His role in the radar tracking research program project was mainly as programmer of the computer.

He is an applied mathematician and applications specialist, with a PhD degree from Caltech, and he has worked on parallel computing technology - both SIMD (single instruction stream multiple data stream) and MIMD (multiple instruction stream multiple data stream) architectures - for the last five years.

He explained that the MasPar operation was a three-year old, Silicon Valley company that had produced massive parallel computers for the last year.

The performance and price of the company's machines ranged from one with about 1,000 processors (\$US170,000) to one with 16,000 processors (\$US810,000).

Professor Evans said the Department of Electrical Engineering and Computer Science was hopeful of being able to keep the MasPar MP-1 for a long time, because of its capabilities to assist

several research functions.

The team working on the radar tracking problem comprises Professor Evans and Dr Bruce Penfold (tracking algorithms), Professor Schröder and Dr Bryan Beresford-Smith (mapping the algorithms to the architecture) and Dr Fier (programming).

Information technology contacts requested

DITAC has commissioned the Centre for Information Technology Research at the University of Wollongong to establish a database of Australians in the field of information technology research working overseas in order to develop a much needed information network.

If you know of anyone in this field who may be interested in this service, please contact Ms Sally Brownlow for further information. Telephone (042) 27 2644. Fax Number (042) 27 3277.

Vice-Chancellors support revised animal welfare code

The Australian Vice-Chancellors' Committee (AVCC) will throw its collective weight behind the national code for the care of animals used in scientific experiments.

The move follows the Commonwealth Government's support for the role of institutions and animal ethics committees in its response to a Senate committee report on animal experimentation.

The AVCC as the peak body representing higher education institutions in Australia will encourage all members to promote the code of practice.

Developed by the National Health and Medical Research Council (NH&MRC), CSIRO and other research bodies, the code already has the support of the Australian Council for the Care of Animals in Research and Training (ACCART), an advisory body co-funded by the AVCC, CSIRO and NH&MRC.

Chairman of the AVCC, Professor Brian Wilson, said that the AVCC was committed to ensuring the responsible use of animals in teaching and research.

"Australia's scientific community leads the world in making animal experiments more humane. The Government report recognises our achievements through self-regulation and supports the use of animals in certain scientific experiments. It is an extremely sensitive social issue but animal experimentation has resulted in major advances in human and veterinary medicine", he said.

"Our concern is to continue to find alternative means to using animals and to minimise distress in those that are necessary to scientific discovery".

The AVCC also welcomes Government support to ensure that people involved in the care and use of animals receive appropriate training. University ethics committees have to approve all experiments and procedures before they can begin but there is still no professional course in laboratory animal science available in Australia.

"In recent years a national core curriculum has been developed for TAFE-based training in laboratory animal care but we are now investigating higher education programs directed towards social and ethical as well as scientific concerns", Professor Wilson said.

The AVCC hopes that ACCART will be able to undertake a study to co-

ordinate the breeding of laboratory animals to ensure an appropriate but not over-supply across research organisations.

The Government has also announced its support for an inter-departmental committee to oversee animal experimentation at the Commonwealth level.

Background: The Senate Select Committee on Animal Welfare (SSCAW) tabled its report to Parliament in September, 1989, making 20 recommendations. These fell into four categories: operation and management of animal facilities, specific research procedures and practices, special funding needs and government responsibilities in regulating animal experiments.

The Government responded to this report on October 9, 1990.

Bond University offered membership of AVCC

The Australian Vice-Chancellors' Committee (AVCC) has voted to offer membership to Bond University.

The decision to admit Australia's first private university to its ranks was made recently at a meeting of more than 30 universities and colleges.

The AVCC appointed a three-person committee to visit the Bond University campus last month and to report in detail on how the University met a range of criteria. These included university governance, academic programs, staff qualifications and research, student intake and quality, facilities and the community interaction.

The AVCC considered this report and agreed to offer membership to the two-year-old university from January 1, 1991.

AVCC Chairman, Professor Brian Wilson, said that Bond University satisfied the criteria established for membership of the AVCC.

"Bond University has excellent facilities, has attracted high-quality staff and meets university standards in its curriculum and teaching. While the University's financial viability has been subject to considerable external speculation, the AVCC is satisfied that its current level of funding is adequate", Professor Wilson said.

Commenting on the University's recent decision to close its postgraduate science school, Professor Wilson said low science enrolments were regrettably a national phenomenon. "A private university clearly has less flexibility than established universities in maintaining less

popular programs whose continuance is a national priority", he said.

1991 ANZAAS Conference call for papers

The ANZAAS Conference for 1991 - the 60th annual conference - will be held in Adelaide from October 1 to 3, and the organisers are seeking titles and abstracts of papers now.

The theme of the 1991 conference will be 'Reproduction and Renewal' and it will bring under the heading of "science" an extremely broad range of studies, from the multi-function polis to the conflict for women between reproduction and research, from genetic engineering to science in schools.

The conference will present sessions in three main areas:

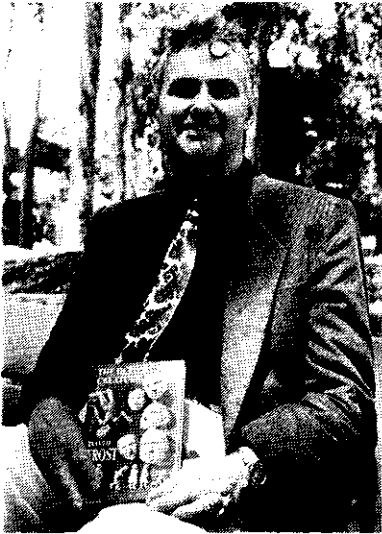
- Biological Sciences: reproduction in plants and animals; renewal of the degraded environment; population control and toxins; human reproduction - research, law and ethics; reproduction in an arid environment; and counting the cost in genetic engineering.

- Social Sciences: women in science - the conflict of reproduction and research; science in schools - where the renewal starts; renaissance in the universities; personal renewal for the professional; renewal on retirement; and communication the catalyst for renewal.

- Physical Sciences: case studies in the application of basic science; new materials in engineering and research; cities - a wasting asset in need of renewal; the multi-function polis; exploiting scientific discoveries; and manufacturing the future.

The Chairman of the Organising Committee, Professor David Boyd, can be contacted by phone on (08) 228 5843 or fax on (08) 223 7650. Alternatively, the Chairman of the South Australian Division of ANZAAS, Associate Professor Joe Wiskich, can be reached by telephone at (08) 228 5279 or by fax at (08) 232 3297.

'Career' change by Professor of English



Professor David Frost

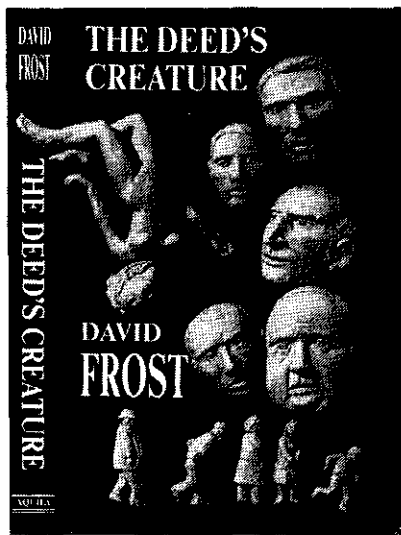
world of a Pentecostal fringe religious sect, the phenomena of 'possession' and 'speaking in tongues'. The sect's customs had led indirectly to the murder.

Professor Frost admits to a link between the novel and his personal experience. "With any writer obviously there is some link with the past - in my case, it is in so far as the book deals with the religious sect. The Pentecostals who I write about are very strange indeed".

The publishers, Aquila Books Limited, are confident that the novel will go well. The company has released 2,300 hardcover copies and 2,300 paperbacks and will be giving *The Deed's Creature* its Australian launch next April. Professor Frost's agent is seeking offers of film and television rights.

While Professor Frost was on an outside studies program at St. John's College, Cambridge, a pre-launch party was held. About 60 leading Cambridge academics attended the function.

Professor Frost's work hitherto has been mainly in Shakespeare and 16th century drama. The title of his first novel has been borrowed from the work of dramatist, Thomas Middleton, whom Professor Frost has edited for Cambridge University Press.



The dust-jacket for Professor Frost's novel was devised by two local artists who figure in the University's Art Collection. They are sculptress, Krysten Walker, and her husband, landscape painter, Graham Cox. Ms Walker modelled some of the novel's main characters in terracotta, against a backcloth provided by Mr Cox. Magazine Associates, of Hamilton, completed the final artwork.

Born in Kent, he spent several years at St. John's College, where he was elected to a Fellowship. Since 1977 he has been Professor of English at this University.

Professor David Frost possesses an impressive list of credits as a contributor to modern church liturgy. His translation of the Psalms, for example, has sold more than four million copies around the world in various editions.

Now he has turned novelist and his first book *The Deed's Creature* was launched in England early this month. It received a favourable review in the BBC's radio program, *Kaleidoscope*, which called the book 'murky and brilliant'.

Professor Frost is already two-thirds through a second novel.

The Deed's Creature, described by its publishers as 'an intellectual murder-mystery', has been pounced upon enthusiastically by some English critics.

Mr Colin Wilson, the novelist and writer on crime and the occult, greeted *The Deed's Creature* as 'the novel of a brilliant man who is going to do extraordinary things ... all the qualities of a first-rate writer'.

The Dean of Westminster Abbey, Dr Michael Mayne, praised, in particular, Frost's portraits of the clergy. 'I enjoyed it greatly and found myself engrossed in a book unlike anything I have read'.

The Deed's Creature is set in a dormitory suburb of London in the mid-1960s at the time of the so-called 'sexual revolution'.

It tells the story of a police officer who investigates the death of his mistress and two clergymen who find that the police officer's attitudes threaten their beliefs. Hoping that he will face the consequences of his casual involvement, the clergymen collude in a revenge action that leads to a surprising and terrifying denouement.

The reader is taken into the bizarre

Professor Frost noted that while it was obviously useful for a critic of literature to have experience of literary criticism, the Department of English had a distinguished record in nurturing writers and he hoped to make a personal contribution there also.

NEWCASTLE UNIVERSITY CHOIR

FESTIVAL OF CAROLS

NEWCASTLE UNIVERSITY CHOIR

CONDUCTOR Peter Brock

with the WARATAH CHORAL ENSEMBLE

CONDUCTOR Marcus Neale

ORGANIST Keith Murree Allen

*An afternoon for everyone with carols old and new
Experience the magic of the children singing too*

SUNDAY, 16th DECEMBER, 1990 at 2.30 p.m.
GREAT HALL, UNIVERSITY OF NEWCASTLE

Organ music with Michael Dudman on 2NUR

Sunday, December 2, 8 pm
Tous les Bourgeois de Chatres,
Claude Balbastre
Nous voici dans la ville,
Nicholas Le Begue
Gloris, Alexandre Boely

Sunday, December 9, 8 pm
A Solis Ortus, Jean Titelouze
Introduction and Variation
on an old Polish Noel,
Alexandre Guilant

Sunday, December 16, 8 pm
Procession and Offertoire,
Alexandre Boely
Variations on an Angevin Noel,
Gaston Litaize

Sunday, December 23, 8 pm
Noel No. X,
Louis Claude d'Acquin
Scottish Noel,
Alexandre Guilmant
Rhapsodic sur des Noels,
Eugene Gigout

Sunday, December 30, 8 pm
Exultet Coelum,
Jean Titelouze
Farandouletto, Guy Morancon

Tests assist Air Niugini to train pilots



Front row: Mr Kora Wemin, Mr Hillary Koyama and Mr Allan Bird; Centre Row: Mr Tala Gongo, Mr John Bird, Mr Felipe Sialis, Mr Denis Christley (University), and Mr Alan Ulmer (University); Back Row: Mr Mike Morrissey, Mr Pala Gongo, Mr Ross Tregida and Mr Michael Ross.

The Institute of Aviation is helping Air Niugini to test its prospective pilots.

Recently, the Institute tested seven applicants for flying jobs with Air Niugini for aptitude, psychology and personality skills.

It was the first time Air Niugini, which became an independent airline in 1975, had used the Institute of Aviation's flying ability testing facilities.

A member of Air Niugini's Manpower, Research and Development Unit, Mr Ross Tregida, said this University was chosen for the pilot selection process because of its reputation in the area. After leaving the University, the prospective pilots would fly to Adelaide for two weeks' intensive testing and assessment.

Mr Tregida said Air Niugini undertook its own testing program. The company was most impressed with the tests carried out by this University which more than favourably compared with its own. "The comparisons between what you do and what we do will help us

greatly in the assessment process".

Only five of the applicants for jobs as pilots would go on to formal training, which would be given in Adelaide and would take approximately 13 months.

Scores of Science and Engineering students

Contrary to popular belief, students entering science and engineering courses in Australia's universities and colleges did not have lower than average tertiary entrance scores, the Minister for Higher Education and Employment Services, Mr Peter Baldwin, said.

The Minister was releasing the latest of the Higher Education Series reports, produced by the Department of

Employment, Education and Training.

"Until now, commentators have tended to use course cut-off scores to gauge the popularity of higher education courses among potential students", Mr Baldwin said. "These relate only to the lowest scoring students offered places in particular courses, whereas the information now reported relates to the student body as a whole".

Mr Baldwin said that the scores of students who commenced engineering courses in 1989 were well above average. Science students had a scoring profile which was very similar to that of the student body as a whole.

The report notes that courses in health attracted the largest number of students with very high scores, with significant numbers also entering business, engineering, science and arts.

Notes from the Office for Research

Research Ethics Committee

The Research Ethics Committee has now prepared a revised application for ethical clearance for research projects involving human subjects. The application and comprehensive guidelines will be distributed through Heads of Departments.

Animal Care and Ethics Committee

The Animal Research Act of NSW and the Animal Research Regulations made under the Act have now been implemented. Copies of the Australian Code of Practice for the Care and Use of Animals for Scientific Purposes have been circulated to all Animal Houses/Holding Facilities and appropriate laboratories.

The University is currently seeking accreditation as an Animal Research Establishment under the Act. Application for a Suppliers Licence will also be made.

The Animal Care and Ethics Committee application forms will also need to be reviewed to provide the details now sought under the Act. The revised application forms will be distributed through Heads of Departments early in 1991.

Lyn McBriarty
Assistant Secretary

Grants and Fellowships

Information on the following grants is contained in 'NEWS' on the VAXcluster. Further information and relevant application forms are available from the Office for Research - telephone 685302.

Granting Body Closing Date (To Office for Research)

Grants with Closing Date:

The Japan Foundation, November 23.
Eleven programs beginning April 1, 1991 and ending March 31, 1992

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.

Australian Antarctic Division,
November 30.

Interaction with the PR industry



Representatives of media and PR organisations saw how graduating students in BA (Communication Studies) have mastered the techniques of their chosen vocations on November 14.

As part of their coursework, the 60 students presented a comprehensive exhibition in the Student Union called *Media Insight*.

The show was sub-divided into graphic arts, photography, sound, radio, film, television and public relations displays.

The Co-ordinator of *Media Insight*, Ms Bronwyn McGrath, welcomed guests and the Head of the

School of Visual and Performing Arts, Mr Graham Gilchrist, the Head of the Department of Visual Arts and Media Studies, Mr Frank Morgan and the Vice-Chancellor, Professor Keith Morgan, praised the students and wished them success in the future.

Professor Morgan performed the official opening.

In a special directory published for the exhibition, the students thanked people from Newcastle PR firms who had assisted them during the year.

Pictured at the exhibition are (left to right): Mr Bob Purser, President of the Hunter Society of Business Communicators, Ms McGrath, Professor Morgan, Ms Judy Wells, Lecturer in Communication Studies and Mr Morgan.

Professional positions available for 1991 Australian Antarctic Research Expeditions.

Pig Research and Development Corp.
1991-92 Grants, December 10.

Proposals are considered within: Production, Processing, Operations Research, Information and Communications, Human Resources.

Rural Industries Research and Development Grants:

Chicken Meat, Egg Industry & Honeybee,
December 14.

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.

Tobacco Research and Development Council, February 1, 1991.
Research and development relating to the tobacco industry.

Rural Industries Travel/Conference Grants: Chicken Meat R&D Council, Egg Industry and Honeybee R&D Council, March 13, 1991.

National SIDS Council of Australia,
March 18, 1991.

"Expressions of Interest: in a
Multicentre Program Grant".

Fellowships

Pig Research & Development Student
Awards, *November 26.*

Postgraduate awards, Extension
study/training awards, Postdoctoral
fellowships and Undergraduate
Encouragement awards.

Australian Academy of Science, Overseas
Exchange, China, *November 26.*

Oxford Nuffield Medical Fellowship 1991

University of Oxford, England, clinical
assistantship, *November 30.*

Canadian Studies, Faculty Enrichment
Awards (FEA), *January 17, 1991.*

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

Grants with No Closing Date

Department of Community Services and
Health National Campaign into Drug
Abuse DITAC International Science &
Technology Travel Grants

Apply at any time but at least six
weeks prior to intended travel.

Education and Training Foundation,

BHP Community Trust, RADGAC
Department of Community Services and
Health, Medical research and Targeted
research areas.

Research Management Committee Travel Grants

Research Management Committee
Research Visitors, Child Accident
Prevention Foundation of Australia,

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

Telecom Research Funding

For Centres of Expertise or short- term
R&D.

'Release the energies in universities held in reserve'



Professor Lois Bryson with Mr Barry Jones, MHR, and Professor Donald Horne, Chairperson of the Australia Council, at the launch of the Discussion Paper and Proposals for Action, an outcome of the 'Unlocking the Academies' forum.

Proposals for 'the unlocking of the
academies' are available from Professor
Lois Bryson, of the Department of
Sociology.

The proposals are part of a
discussion paper derived from the
Unlocking the Academies Forum held
last September.

Professor Bryson was a participant
in the forum and a speaker at the preceding
National Ideas Summit (held in the old
Parliament House in Canberra).

She said that at the Summit it was
recognised 'that one of the readiest
opportunities for strengthening
intellectual life in Australia would be to
release more of the cultural energies now
held in reserve in the universities'.

The Summit had observed that,
while many scholars from the humanities
and the natural and social sciences had
made a vital contribution to public
intellectual life, many were inhibited about
general communication.

In order to develop a plan of action
to promote greater communication, staff
of the Australia Council's Literature Unit
met with some of the original speakers at
the Ideas Summit and representatives of
key bodies had discussed the 'unlocking
of the academies'.

The paper derived from the forum
includes 27 specific recommendations to
facilitate the unlocking process and extols
the value of a liberal education for
everyone.

In relation to academic
appointments and promotions, it
recommends greater recognition, not only
of excellence in teaching, but also
contribution to public discourses and
contribution to community service.

Changes to the academic
apprenticeship system are also
recommended. These include:

- . An oral public defence of each PhD
thesis;
- . Candidates to be required to provide a

publishable article on their thesis topic
in order to make the thesis accessible to a
wider readership; and

. The provision of editorial advice on the
preparation of publishable manuscripts
to both candidates and supervisors.

It is recommended that there be a
freeing of the boundaries between research
and communication through a variety of
measures. For example, fellowships for
academics to work alongside journalist,
editors and producers; academic
fellowships to media people, editors and
'freelance intellectuals'; writing
fellowships to allow academics to take
time out to make a contribution to the
general literature (and television, radio,
film etc.) in their field; two per cent of all
research grants to be set aside for
'dissemination'.

Professor Bryson said the forum
had recognised this as a time of opportunity
for a liberation of Australia's intellectual
and creative talent.

"There is now a significant number
of people with higher education, including
more and more women, she said.

There is a great deal of diversity in
the society - an advantage for the
encouragement of lively intellectual
debate.

"There is also a climate of greater
sensitivity to and concern about key issues
including race, ethnicity, gender and
environment".

Professor Bryson said the Australia
Council had offered a lead in opening up
the debate and intended actively to
encourage further developments.

"Nonetheless, as was clear to the
forum, the success of future developments
is largely in the hands of the individual
universities.

"Hopefully, the University of
Newcastle will rise to the challenge", she
said.

(Copies of the document can be
obtained by telephoning 68 5307.)

Either way, Jonson was extraordinary

"Jonson's rise to the heights of literary reputation in his own time was extraordinary, and so was his fall from grace a century later.

"So begins Dr Hugh Craig's introduction to his collection of documents discussing the work of the playwright and poet Ben Jonson, covering the years 1599 to 1798".

The book is called *Ben Jonson: The Critical Heritage*, and was published by Routledge in London in August.

The introduction tells the story of how Jonson - by force of personality, by indomitable self-confidence, and (naturally) by some substantial literary achievements - made a place for himself at the centre of the English literary canon; and of how, after his death in 1637, at first slowly, but then by the mid-eighteenth century quite rapidly, he was dislodged from the canon, to languish by the nineteenth century among the has-beens of literary history.

The 182 documents reprinted in the collection come from plays, pamphlets, prefaces, reviews, essays and diaries, as well as from Jonson's own works (he was an energetic commentator on his own creations). Each has a headnote giving some context for what it says.

Not many readers will sit down to read the collection from beginning to end.

Most users of the book will want a text for one or other critical comment, or will use the index to find discussions through the period covered of a particular play or character or aspect of the canon.

But everyone who does read the volume through, or even browse a little in it, will hear a remarkable medley of voices, including Jonson's own, crying up, crying down, or just coolly assessing the various achievements of this talented and opinionated giant of Renaissance literature.

(Dr Hugh Craig is a Senior Lecturer in English.)

Prizes awarded in German Section



Pictured are (left to right) Mrs Andrea Pulati and Mr Craig Shaw, winners of the Goethe Prize in German Studies, and Mr Theresa Roberts, recipient of the German Community Prize.

At a ceremony on October 31, the Goethe Prize in German Studies was awarded by the Consul-General of the Federal Republic of Germany, Dr Dieter Gescher.

The Lord Mayor, Alderman John MacNaughton, the Deputy Vice-Chancellor (Academic), Professor Michael Carter, the President of the Germania Club, Mr George Bondzio, representing the German community in the Hunter, and the President of the Newcastle German Saturday School, Mrs Irma Vick, were in attendance.

Mrs Pulati was born in Darmstadt, Germany. She did not get her matriculation, but trained as a nurse and later decided to emigrate to Australia.

In 1986, she completed the Open Foundation Course and then began studies for her B.A. in German, English and Japanese.

Since 1988 she has been teaching German at Speers Point East Public School as part of an insertion program conducted under the auspices of the German Saturday School.

Mr Shaw did not start German

until 1986, when he decided to take himself to the Goethe Institute in Bremen to do a two-month course.

He then returned to Newcastle to undertake university studies. He is an outstanding student not only of German, but also of statistics, where he hopes to complete an Honours degree.

Mr Shaw is currently employed as a statistician in a research project of the NSW Health Services Research Group.

In 1988 he won a DAAD (German Academic Exchange) scholarship for a three month course at the University of Freiburg, Germany.

Mr Bondzio awarded the German Community Prize to Ms Roberts. The prize is annually awarded by the Germania Club Newcastle to the best student in elementary German.

Renovation Pre-Christmas Cost price sale

Lots of gift lines, cards, toys
and clothing

at

The Shortland Union Gift
Shop

Be early!!

Academic focus for 2NUR



Mr Nick McLaren

A former producer with 2SER, the University of Technology Sydney's and Macquarie University's educational radio station, has taken up duties as Education Producer of 2NUR.

Mr Nick McLaren hosts Campus Week, the University news program on 2NUR (Thursdays, Noon to 12.30 pm and Tuesdays, 9 to 9.30 pm) and Friday Edition (Fridays, 2 to 4 pm). He also compiles the University news diary (daily

6.50 am, 8.10 am and 5 pm).

As Educational Producer, he is responsible for maintaining the formal link between 2NUR and the University itself, in particular broadcasting academic and research news.

If you want a message to be disseminated outside or inside the University, you can use Mr McLaren's program by telephoning 68 7713.

Students a big plus at 2NUR

Students from the University have become a key element in campus radio station 2NUR's broadcasting output.

Bachelor of Arts (Communication Studies) students are providing their services across the week's programming under the direction of their lecturers and the staff of 2NUR.

DipEd students who take the Aspects of the Media elective are providing programmes to the station under the guidance of their supervisor, Senior Lecturer in Community Programmes, Mr John Hill.

Lecturers in Communication Studies, Mr Trevor John and Ms Terese Davis, said that an increasing number of their students had become involved in production, interviewing and other roles at 2NUR. They estimated that about 60 students, including about 35 first year students, had worked at the station at

some time or other this year.

2NUR's studios in the Maths Building were reasonably straight forward to operate and the station had some outstanding programmes, Mr John and Ms Davis said.

Some of the shows the students had helped 2NUR to produce were the former Thursday At Nine (a weekly current affairs show), Biodegradable and Environmental Magazine. About a dozen of the students had volunteered to make a larger contribution by working as presenters.

Mr John said discussions had been commenced concerning a possible news bulletin comprising international, national, state, Hunter and University segments with students helping to produce it. (At present 2NUR takes its news broadcasts from a Sydney commercial station).

Ms Davis said students also benefited from professional placements with the ABC and scholarships provided by NEW FM (four annual \$800 awards, as well as attachments to the radio station).

She said three graduating students had recently been given jobs by Radio Stations 2NX and 2MC (Port Macquarie).

Mr Hill said his DipEd students went to lectures for two hours a week. Apart from the time spent on 'pracs', 80 hours would probably be devoted to associating with 2NUR in a year.

He said the students prepared radio programmes which dealt with issues (recent topics were Rehabilitation of Prisoners, the Addiction of Gambling and Preserving Historical Newcastle Buildings) and staff of the radio station selected items for broadcasting.

"Most of the students are teachers of English and they find that their assignments have application at school."

The Head of the Department of Visual Arts and Media Studies, Mr Frank Morgan, said that in a period before examinations this year about 80 hours of 2NUR's studio time was being used by BA (Communication Studies) students every week.

"The staff of the station have been extremely welcoming to us," he said, "and their help has contributed to our ability to provide a professionally credible degree programme.

"In turn, the students lift the quality of 2NUR's links with the community and the University."

For the University to provide training facilities for students, the cost would be prohibitive, Mr Morgan added.

Staff House Christmas Party



Friday, December 14
5 to 7 pm

Complimentary food,
drinks,
entertainment and raffles.
All members most
welcome.

Merry Christmas and
a Happy New Year to all.

Skin cancer check-ups

As part of a drive to help members of the University to protect themselves from the sun this summer, the University Health Service is offering free check-ups if any danger signs appear on the skin.

The Health Service advises people to consult their doctor if any of these signs appear:

• Any unusual skin condition that doesn't heal in four weeks. This includes any lump, sore, ulcer or scaly patch on the skin or white patches on the lips.

• A mole which shows any of the following:

- Change in colour;
- Change in size, shape or direction of growth;
- It feels tender or painful;
- It bleeds on touching or rubbing;
- It develops scaling, crusting, mottling or colour or ulceration, or
- The surrounding skin grows red or swells.

Even if a mole doesn't change, it may be wise to have it removed if it appears on the following areas:

- Palms of hands;
- Fingers;
- Soles of feet;
- Toes;
- Genitals or any area where it may be constantly rubbed.

The Health Service advises people to reduce skin damage from the sun by:

- Wearing a broad-brimmed hat;
- Wearing protective clothing to reduce area of skin exposed;
- Using a reliable sunscreen. The protection of a sunscreen is determined by a sun protection factor (SPF) ranging from four to 15+ SPF sunscreen. Don't forget to re-apply the sunscreen as directed on the container, and if swimming, use one that is water-resistant. To be really safe, apply the sunscreen to cool, clean skin and about one half-hour before exposure. This allows it to blend with natural body oils and 'cure' to a protective coating. Avoiding exposure between 10 am and 2 pm (11 am to 3 pm daylight saving). This is when the sun's rays are at their strongest.

The Health Service is on Level I of the Union Building. The telephone number is 68 5763.

Mutual interest in power system analysis



Professor Hill (left) with Mr Per-Anders Löf from Stockholm, who will return to Sweden in January after working in the Department of Electrical Engineering and Computer Science.

A serious incident in Sweden in 1983 showed the vulnerability of modern power systems to serious disturbances.

A switchyard failed leading to an almost complete blackout of the country.

Since this blackout, efforts on research into the analysis and control of power systems have been stepped-up in Sweden.

Other developments also make this a priority. Environmental constraints, plus a plan to phase out nuclear power (following concern raised by the Chernobyl disaster in the nearby Soviet Ukraine), add to the need to study systems which run at higher load levels.

One research program that has been developed involves an exchange of expertise and visits between Swedish institutions and this University's Department of Electrical Engineering and Computer Science.

Professor David Hill, Assoc. Professor in Electrical Engineering, filled the position of Guest Professor at the Lund Institute of Technology in 1986 and has visited Sweden every year since then under the terms of the research program.

Professor Hill is presently collaborating with a Visitor to the Department of Electrical Engineering and Computer Science, Mr Per-Anders Löf, an engineer from Vattenfall (the Swedish State Power Board). As well, Mr Löf is a

PhD student at the Royal Institute of Technology in Stockholm, belonging to a new power system research group headed by Professor Goran Andersson, who will also visit Newcastle briefly in November.

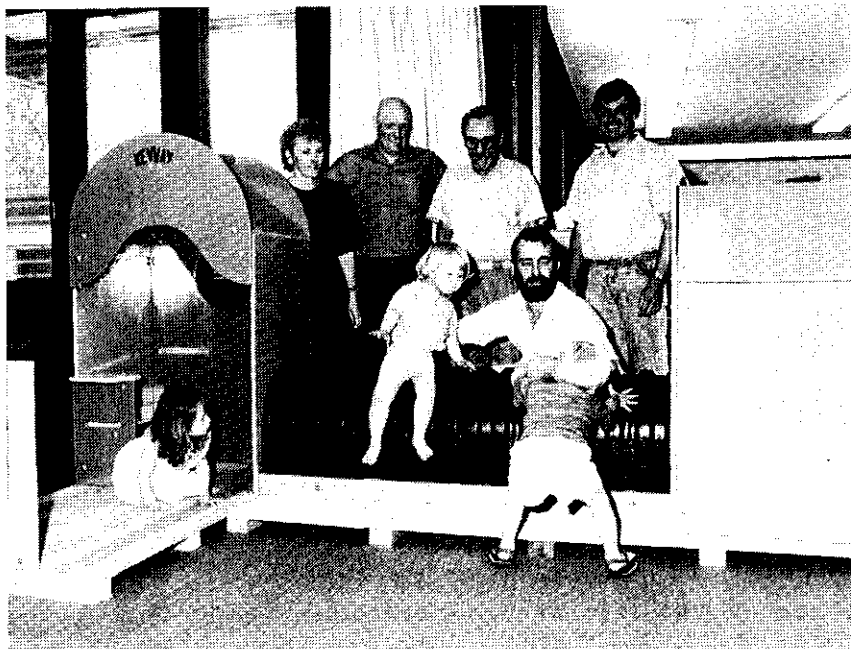
Professor Hill explained that if a power system was disturbed either voltage or frequency could collapse. This had occurred in the 1983 Swedish blackout and others, such as the famous New York blackout in 1977. Systems with lower excess generation capacity were less vulnerable.

"As there are environmental and economic restraints on building of power stations and transmission systems, research into methods of preventing voltage and frequency collapse is a very real challenge for the future".

"Up to now the situation in New South Wales has been relatively stable, as we have had an excess of power generating capacity. However, the new power system interconnection through to South Australia, and projected load growth, will necessitate continuing attention if the problems faced in Europe and the United States of America are to be avoided".

Professor Hill and Mr Löf said the long-term aim of their research program was to find techniques enabling electrical engineers to predict, prevent and control voltage instability in power systems.

Play centre donated to Special Education Centre



Photographed with the play centre are (left to right): Ms Joan Maddison (Special Education Centre), Dr Roger Coldwell (Head of Industrial Technology), Dr Phil Foreman (Director of Special Education Centre) and Mr Wayne Cook; (front) Mr Kevin Wallace with young investigators

When Bachelor of Education (Industrial Technology) student, Mr Wayne Cook, studied a Special Education module as part of his course earlier this year, he saw a need at the Special Education Centre that he could remedy.

Mr Cook co-opted the assistance of fellow student, Mr Kevin Wallace, and between them they conceived the idea of the 'Kevway Play Centre', an ingenious system of two interlocking cubby houses with attached tunnel with lots of nooks and crannies, peepholes and tiny seats designed to delight the children and provide them with a learning environment at the same time.

Mr Cook said the Play Centre has been designed for children with specific needs from six months to six years and was set up to encourage their investigation and exploratory skills. It has been painted in bright primary colours to appeal to the littlies.

Sponsored by the Medowie Lions Club, the Port Stephens Shire Council and the Department of Industrial Technology at the University, the Play Centre is most likely to be the forerunner of many more.

"We have thought very carefully

about where each area was placed in relation to another, even to the height of the peepholes, the length of the tunnel and the size of the seats," Mr Cook said.

"It has given us much pleasure to be able to provide the facility. It not only fills a need at the Special Education Centre, but goes towards our final assessment for our work for the year," he said.

Both students are mature-age, Mr Cook having worked as an engineer with the RAAF and Mr Wallace as a plumber before embarking on the Industrial Technology course. "It's nice to know that when you leave the University, you can leave something of yourself behind," Mr Cook said.

It was with much joy at the Centre that the Play Centre was handed over. The parents gained as much enjoyment as the children, especially when the first intrepid soul crawled through the tunnel to announce his arrival at the other end with a happy squeal of laughter.

Judging from the reaction of the children, the Play Centre will have to handle some tough punishment in the future, but still that's what it has been designed for.

1991 Salzburg Seminar

"For intercultural, interdisciplinary dialogue among prominent conceptual thinkers and policy-makers, and mid-career professionals of demonstrated performance and exceptional promise".

There are seven sessions altogether of one to three weeks duration commencing between February 10 and July 7, 1991.

Program

Session 287

The Global Village and the Media Revolution, February 10 to 22.

Session 288

Financing Growth: The Role of Private Investment, March 10 to 17.

Session 289

International Migration: A Challenge for Humanity, April 14 to 26.

Session 290

The Transformation of a Continent: Europe in Transition, May 5 to 17.

Session 291

Negotiating Trade-offs: Harmonising Environment and Development, May 19 to 31.

Session 292

New Priorities for Health Care, June 16 to 28.

Session 293

American Law and Legal Institutions, July 7 to 26.

Application forms are available from Professor Michael Carter.

Have you heard about the Old Wares Shoppe yet?

We stock a variety of oak and other furniture. There are shelves stacked with bric-a-brac and collectables, also crystal and glassware. It's an experience that will not break your budget (Bankcard facilities available).

Remember, the Old Wares Shoppe, 3 Beaumont Street, Islington.

Opening Times: 11 am to 4.30 pm Tuesdays to Sundays

It's worth a look!! Telephone: 61 1714

New guidelines to prevent academic fraud and misconduct

New guidelines to encourage responsible research practices in universities emphasise the crucial role of research supervisors.

The code also stresses the need to retain data in a durable and appropriately referenced form for at least five years and for one person to take overall responsibility for publications with more than one author.

The guidelines, approved by the Australian Vice-Chancellors' Committee (AVCC), state that supervisors should be the primary source of guidance for research students, trainees and associates.

Their advice should include government and institutional codes relevant to a particular research field, ethical requirements when human or animal subjects are involved, and safety measures regarding potentially hazardous agents.

Where possible supervisors should also be personally involved in active supervision and ensure that work and data submitted are valid and from a particular researcher or group.

Professor Ken McKinnon, AVCC Acting Chairman, said that the new guidelines were being distributed to all universities with the recommendation that individual institutions may need to adopt additional codes to reflect the specific needs of different disciplines.

The guidelines have been developed in co-operation with the National Health and Medical Research Council which has developed a similar code in recent months.

The new AVCC guidelines state that any potential conflict of interest should be widely circulated within institutions. This means disclosure of funds, materials or facilities provided for research or travel and accommodation expenses to attend conferences.

The second part of the code outlines procedures to deal with those who are accused of research misconduct. Early stages of an investigation should ensure reasonable speed and confidentiality for both the complainant and accused. The chief executive officer, usually the vice-chancellor, has the power to conduct a preliminary investigation in person but

Happy memories for a visitor from Papua New Guinea



This is where I come from, says DipEd student, Mr Xystus Kinula.

Mr Xystus Kinula believed that the University of Newcastle would be a concrete jungle.

Instead, he was pleasantly surprised to find an Australian university in a very natural setting.

Previously, he attended the University of Papua New Guinea and was awarded a Bachelor of Economics.

This year Mr Kinula has been enrolled in the Diploma in Education, which has included eight weeks practical teaching experience in Newcastle schools.

Mr Kinula comes from a small village on the island of New Britain. His

village has no running water, or electricity, and the only mode of transport is by foot. The majority of people in Parolea cannot speak English, so to go away to school, let alone university, is a great feat.

After Mr Kinula finishes his Diploma he hopes to take up a teaching position in the Solomon Islands and one day he hopes to visit the University of Newcastle again. He found the University staff and students to be very warm, friendly and supportive and, although at times his studies were demanding, he has enjoyed the experience tremendously and leaves with many happy memories.

can call on a three-person committee to conduct a formal investigation should a case be seen to exist.

Employment conditions under the Australian Universities Academic Staff Award specify membership of this committee as a nominee of the chief executive officer, the local union branch president and senior legal or industrial relations expert agreed to by the other two parties.

If the early investigation finds a case exists, all external funding bodies which are involved are to be notified, in confidence, that a case is proceeding. Termination of grants, however, must await the outcome of formal investigation.

Although the industrial award

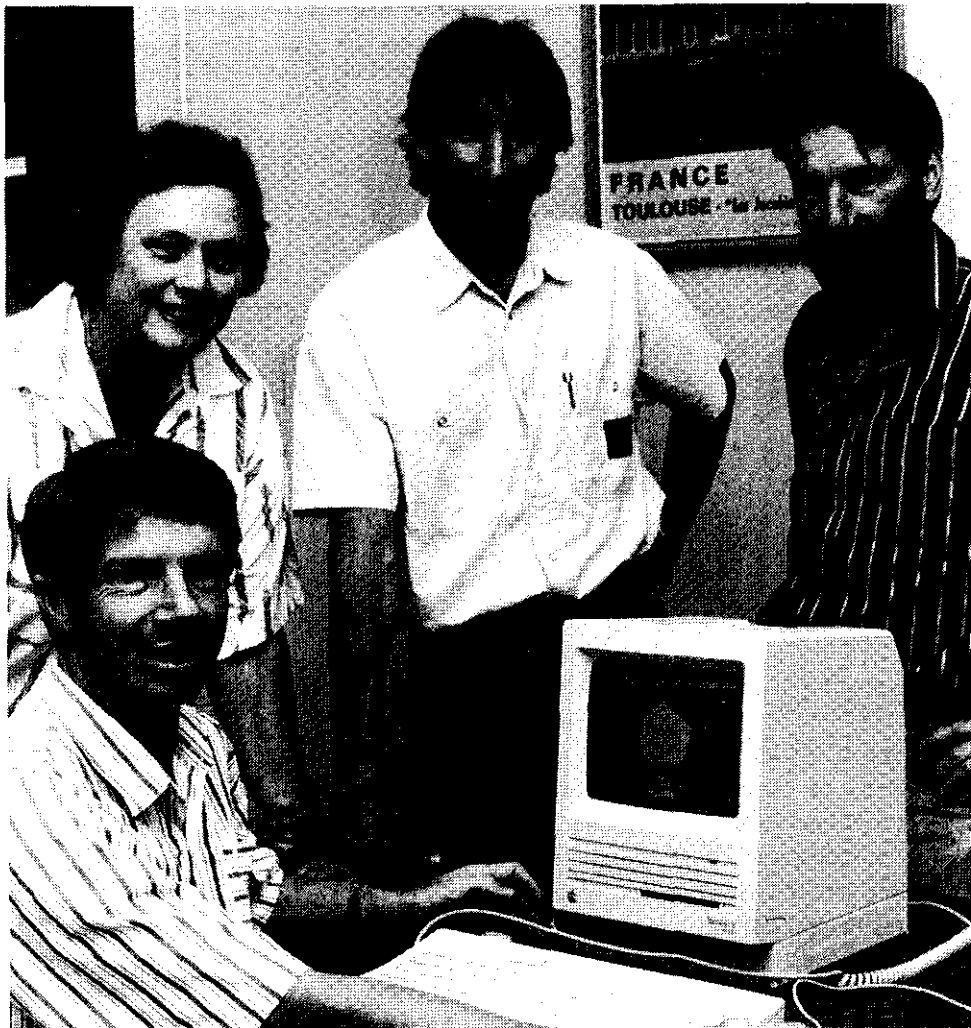
states that procedures against an academic should cease if he or she resigns, the new code suggests that institutions should convene an inquiry to report on the status of the research. The inquiry would also advise on remedial action to protect affected people and the community should the allegations prove true.

Advertisement

Wanted to Buy

Sideboards, chests of drawers, hallstands, washstands, etc. Also china, porcelain, glassware or silver. Cash buyer will call!! Please telephone 59 2319 after 6 pm.

Devoted to language teaching software



Seated, Dr Brian McCarthy; standing, Mrs Gay Reeves, Mr Mike Connon and Dr John West-Sooby

CoLLeaG has been formed to develop and exchange learner-centred software programs for teaching and testing language at a tertiary level.

The name stands for members of the Computers in Language Learning Group.

CoLLeaG will focus on fostering computer-enhanced language learning activities. It plans to make its materials available to language departments in other universities, who will provide feedback in the form of possible refinements and further applications. Involvement will also be invited from interested teachers in schools.

The major focus of discussion at the inaugural meeting on November 16 was a set of materials designed at the University of Wollongong by Dr Brian McCarthy (Co-ordinator for French, the Department of Modern Languages), and Mr Ray Stace (Computer Consultant in the Centre for Staff Development). Dr McCarthy has recently been awarded a University Research Grant to develop a phonetics instruction package for learners of French.

Other members of the group are Mr Mike Connon (French Section, Department of Modern Languages), Mrs Gay Reeves (Director, Language Laboratory), and Dr John West-Sooby (Division of French, University of New England).

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Address all correspondence
to:
The Junction.

House For Sale

In a quiet location, two minutes from the University, this good-quality weatherboard and tile home has three bedrooms (with built-ins), the usual kitchen with plenty of cupboards, laundry and lock-up garage (situated on a flat block). For comfort this home has air-conditioning and oil heating. No work required, just move in and enjoy. Asking price: \$115,000.

For inspection please contact Adrian Raysmith at Robert Dalton First National 69 3500 or 69 4826 (a.h.).

Robert Dalton
First National

SD/22/11

More bus services

Additional bus trips of benefit to students and staff were introduced on October 8.

The additional trips are:

Route 239

extra trip from The Junction to the University at 10.13 am.

Route 366

extra trip from Belmont to the University at 9.40 am.

Route 106

extra trip from Mayfield shops to Birmingham Gardens at 10.50 am.

Route 106

extra trip from Birmingham Gardens to Mayfield shops at 9.45 am.

Communication students - photographic perspective

When the BULLETIN went to press, second-year Bachelor of Arts (Communication Studies) students were preparing to take part in A Day of Celebration at Newcastle City Hall.

The function on November 26 will be conducted by the Migrant Health Unit of the Hunter Area Health Service to mark 10 years of service to the Hunter Region.

Thirty students within the photography specialisation of the communications degree have produced photographic works centred around the work of the Migrant Health Unit. The works focus on seven major facets of the Unit's work, children and mothers, women's programs, occupational health and rehabilitation, health promotion and food, health promotion for older people, care for the aged in the community and care for the aged in institutions.

The works will be on display at the Commonwealth Bank in the Hunter Street Mall from November 27 to 29.

As well as the photographic display, three other official launchings take place at the function on November 28. These are 'Having your Baby in Australia', a video production for Chinese and Vietnamese mothers produced by the Medical Communication Unit, a report on food preparation systems for ethnic people entitled 'Food, Technology and Culture' and a low fat cooking 'Hints Kit' in nine languages.

Co-ordinator of the photographic exhibition, University photography Lecturer, Mr David Adermann, said the visual display would incorporate about 50 enlargements featuring the life-cycle - from birth to death - with a multicultural focus.

Mr Adermann said the Migrant Health Unit's philosophy - 'working with' - had lent itself perfectly to an exhibition of this type, working with people at many different stages and needs in their lives, working with ethnic community groups, working with the community in health care and health care services.

"It's a very exciting theme and we

'Activist but even-handed and professional'

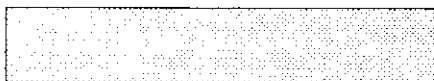


feel very privileged to be a part of it", he said.

The Migrant Health Unit's facilities extend across a wide area after its 10 years of service.

Area Co-ordinator of the Unit, Dr Judith Galvin, said that in the Hunter Region there were about 25,000 people of non-English speaking background and their Australian-born children. As well as assisting people from non-English speaking backgrounds, Dr Galvin said the Unit was a resource to all health professionals for providing more appropriate services to migrants.

"We are very pleased to have the contribution of the Communication students from the University, as it puts our programs into a photographic perspective that people can readily understand", she said.



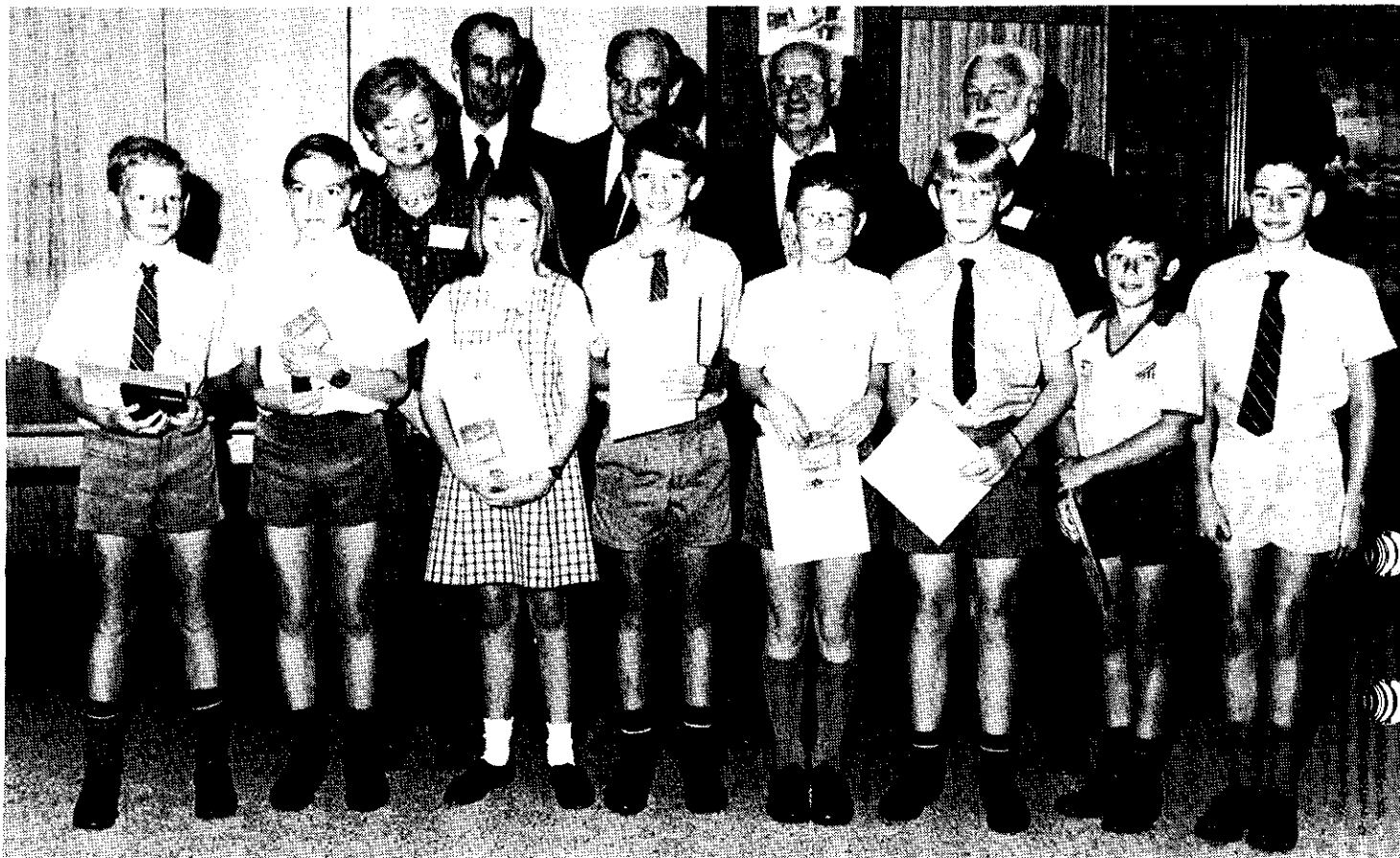
Senior Lecturer in Applied Science, Mr Kevin McDonald, was awarded the 1990 Environmental Achievement Award at the Board of Environmental Studies annual dinner on November 9.

In presenting the award to Mr McDonald, the Chairman of the Board, Dr Howard Bridgman, said Kevin McDonald had devoted the major portion of his professional working life and what should have been his leisure time to the cause of environmental education and environmental conservation. Dr Bridgman said that in the Hunter Region, and in New South Wales in general, Mr McDonald was recognised by a wide spectrum of the community - colleagues, business, corporate sector, government, and the general public - as the "guru" of things environmental.

"From every perspective, Kevin is a very worthy recipient of the award. Although a genuine activist, he has been even-handed, though professional, in his approach, always applying the highest level of integrity. The Hunter Valley and the wider New South Wales community, and the cause of environmental conservation and education in general, have much to thank him for", Dr Bridgman said.

Mr McDonald is seen with member of Council and Chairperson of the Australian Water Resources Council, Dr Diana Day, who was the guest speaker at the dinner.

University's role in Region Mathematics competition



A competition which has seen more than 75,000 contestants compete in the past 10 years has just marked its 10th anniversary with a very special celebration.

The Hunter Region Primary Mathematics competition, whose Director is University Lecturer, Mr Fred Bishop, has enjoyed huge success and has grown steadily since its inception in 1981 under the sponsorship of the Newcastle Permanent Building Society.

The competition, which commenced with 2,337 competitors from 70 primary schools from around the Region, has now increased to the point where more than 11,000 pupils from 215 primary schools competed this year, bearing in mind that they are from Years 5 and 6 only.

The occasion of the competition's 10th anniversary was marked by a reception and luncheon attended by the Minister for School Education and Youth Affairs, Mrs Virginia Chadwick, The Executive Director of the Australian Schools Mathematics Competition, Assoc. Professor Peter O'Halloran, The Assistant Director General of School Education in the Hunter Region, Mr Alan

Beard, The Director of Schools, Catholic Education, Mr Ray Kelly, the Member for Newcastle, Mr George Keegan, MP, representatives of the University, Newcastle Permanent personnel, proud parents, school principals and teachers, and the winners of the competition for the past nine years as well as this year's winners.

Managing Director of the Newcastle Permanent Building Society, Mr Frank Wotherspoon, said the competition would not have been possible without Mr Bishop's enthusiasm and that it was very gratifying to see talented children rewarded for their efforts.

In his speech, Assoc. Professor O'Halloran, said that the purposes of Mathematics competitions were to arouse mathematics interest and enthusiasm, to encourage problem-solving and creativity, to bring to light mathematical talent, to direct abler students to advanced techniques and to supply teachers with resource material.

"Mathematics competitions such as these motivate, challenge, encourage, stimulate and popularise the learning of mathematics," he said.

The winners of this year's competition were Martin Barry from Coal Point Public School and Neil Wright from Belair Public School, joint winners for the Year 6 section and Paul Faulkner from Kahibah Public School and Nick Randall from New Lambton Public School, joint winners for the Year 5 section.

Mr Bishop said the calibre of winners was of a very high standard as was the level of mathematical skills throughout the whole competition.

He said that one of the qualities required of a mathematician was persistence and that the winners of this year's competition had certainly demonstrated that quality.

Mrs Virginia Chadwick, Mr Fred Bishop, Mr Frank Wotherspoon, Assoc Professor Peter O'Halloran and Mr George

Keegan pictured with the winners and placegetters in the Hunter Region Primary Mathematics Competition.


ADVERTISEMENTS


For Sale

AMIGA 500 and Epson LX800 printer, mouse, joy sticks, disk cabinet, plus heaps of software. All just over one-year old. Asking price: \$1,200. Please telephone Ros at 68 5519.

Childcare twin stroller, navy blue (side-by-side, suit twins or baby plus toddler) with mattresses, \$180; two bouncers, \$5 each and door barriers, \$5 each. Please telephone Peter at 68 5709 or Marion at 67 5651.



Wanted to Buy

 Early Days of Port Stephens: Extracts from the diary of Sir Edward Parry, Cambridge Press, Newcastle. Please telephone Denis Row at 68 5679 or 51 5219 (a.h.).

 Fender Stratocaster style guitar (or copy) with Rosewood fingerboard telephone Steve 687443

Accommodation

For Rent

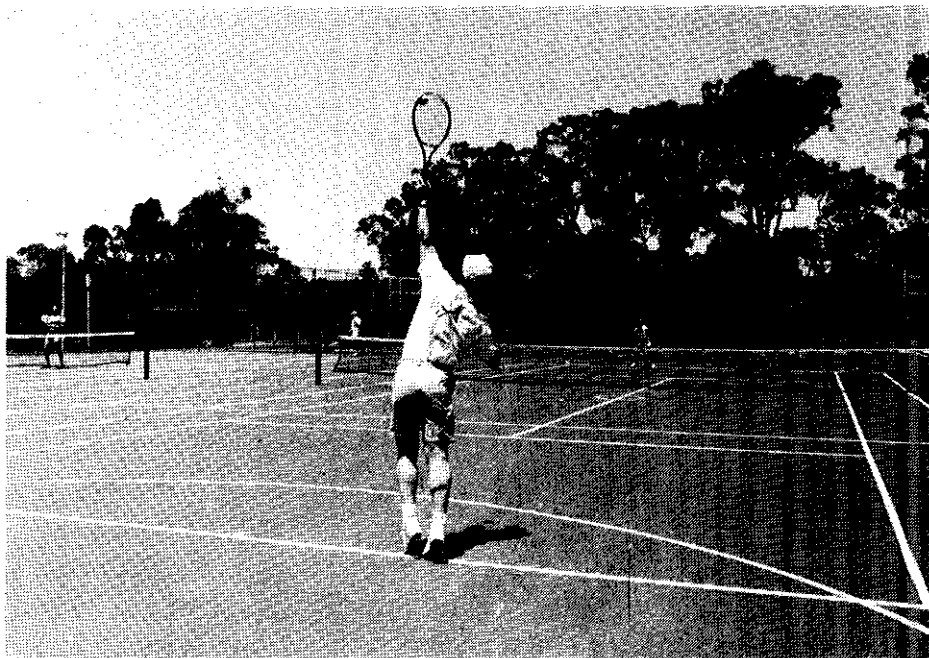
Three bedroom townhouse in Soldiers Point requires housesitters from December  to January 26. This townhouse is on a peaceful reserve with fabulous water views and only 50 metres to beach. Rental: \$350 per week. Please telephone 68 7673  or 29 5761.

Bush retreat for rent in Wollombi, January 1 to December 31, 1991. Stone house, furnished, two bedrooms plus sleeping loft. Close to school, shop and river (one hour from University) and would suit young family. Rental: \$120 per week. Please telephone 68 5267 or (049) 98 3236.

Three bedroom townhouse (with dishwasher and ceiling fans) at Soldiers Point available from December 15 to January 24, 1991, on a reserve, 50 metres from the beach at Cromarty's Bay. Please telephone 68 7736 or 82 0276.

Unfurnished room available for sub-letting in Merewether Heights, November 24, 1990 to January 18, 1991. Share fully equipped house with two others. Rental:

Improvements to tennis courts



New hardcourt surfaces are among the improvements being made by the University to the tennis courts on campus.

In addition, work is progressing on the provision of four new courts. The earthworks have been completed and documents have been prepared for tenders to be called for the construction of the

courts, which will have synthetic grass surfaces and illumination for play at night.

Dr Kevin Norton (Applied Science) and Ms Marie Williams (Physical Health Sciences) are pictured playing tennis on the resurfaced old courts, which have plexipave surfaces and can also be used as volleyball courts.

\$50 per week. Please contact Dr David Lemmings at (09) 36 44164, or Dowling Real Estate at 61 5201.

Allyn River property - large older-style home. Features include: three bedrooms, separate dining and lounge, verandahs, etc. Rental: \$110 per week. Please telephone 52 4113 after 5 pm.

Wanted

Academic couple seek furnished accommodation from approximately February 15, 1991. Prefer two-bedroom house or unit, within travelling distance of University. Please contact Dr David Lemmings at (09) 36 44164.

For Lease

Two/three bedroom house - two minute drive from the main University entrance at Waratah West, until the end of February. At the end of February, by negotiation with the owner. Rental: \$160 per week. Please telephone Mrs Harvey at 49 7650 or 67 5400.

Wanted to Rent

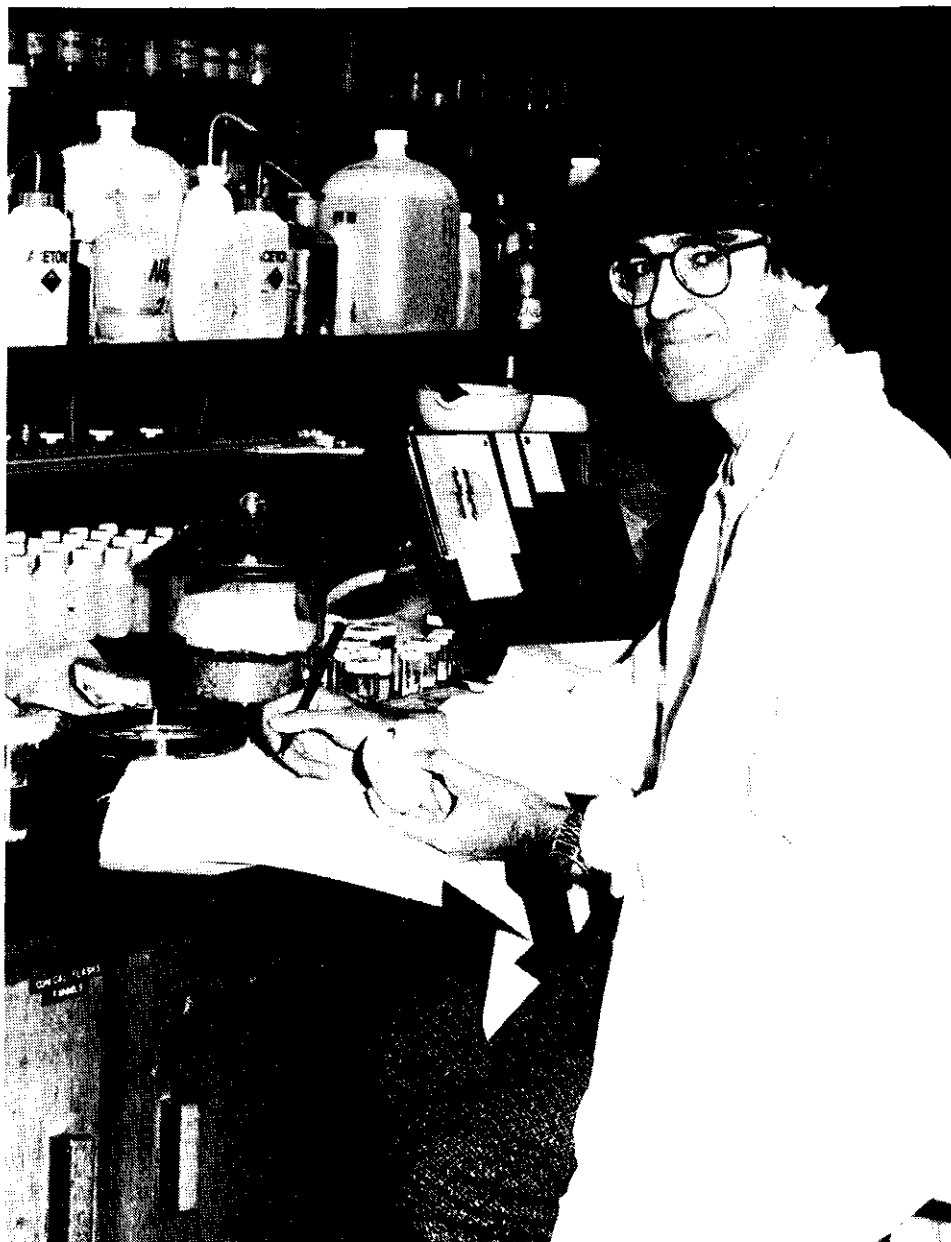
Mature businesswoman, non-smoker requires self-contained furnished/unfurnished accommodation between University and East Maitland, from mid-December. Willing to house sit for extended period if required. References available. Please telephone 68 5564.

Position Vacant

Research Project Manager
Project Manager with some research experience and computing skills required for a one-year project in the area of social/organisational psychology, based in central Newcastle hospitals. Work may be suitable for part of a higher degree. Salary according to qualifications and experience.

Please contact Dr Nick Higginbotham, Centre for Clinical Epidemiology and Biostatistics, 26 6142.

Coastal evolution expert



Dr Colin Murray-Wallace

Dr Colin Murray-Wallace, a new arrival in the Department of Geology, is an expert on dating sea level change and coastal evolution.

He was previously at the University of Sydney in the NWG Macintosh Centre for Quaternary Dating, a service centre with activities in radiocarbon dating, palaeomagnetism and amino acid racemisation.

Dr Murray-Wallace hopes to set up a facility for racemisation dating at this University. He is teaching sedimentology to Geology II and III students.

The Federal Minister for Employment, Education and Training, Mr Dawkins, has announced a number of appointments to the National Board of Employment, Education and Training (NBEET) and its Councils.

Mr Ian Spicer, AM, the chief executive of the Confederation of Australian Industry, has been appointed a part-time member of the Board for three years.

Six appointments have been made to the Higher Education Council, which provides expert advice to the Board. Five part-time members have been reappointed for a further three years, their terms continuing until July 11, 1993:

Mr Grant Belchamber, research

Christmas is coming!



Newcastle University Choir will present its annual Christmas Carols Concert in the Great Hall on Sunday, December 16, at 2.30 pm.

Father Peter Brock will be the Conductor, Mr Keith Murree Allen will be the organist.

This is for everybody! The Choir will sing some special carols, the audience will sing lots of favourites, the children will perform just as magically as they did last year and, as a special bonus, the Waratah Choral Ensemble, a very musical group of 14 young singers, conducted by Mr Marcus Neale will join in.

Prices are only \$5, \$3 (concession), \$2 (schoolchildren) and 'littlies' are free.

A wonderful afternoon is assured.

Come and Sing!

Enquiries: 52 3009 or

Mrs Phyllis Robson, 63 2237.



Appointments to NBEET

officer with the ACTU;

Professor Fred Hilmer, Dean and Director of the Australian Graduate School of Management at UNSW;

Professor John de Laeter, Deputy Vice-Chancellor (Research and Development) of Curtin University of Technology;

Professor Kwong Lee Dow, AM, Dean of the Faculty of Education at the University of Melbourne; and

Mr Leigh Tabrett, executive officer of the Higher Education Office of the Queensland Department of Education.

Mr Damian Smith, education officer of the National Union of Students, has been appointed a part-time member for one year, until July 11, 1991.

Brain gain for Australia

Three leading British researchers have been attracted to Australia under a new scheme announced last week by the Minister for Higher Education and Employment Services, Mr Peter Baldwin.

Funding of \$1.6 million will be provided in 1991 for 21 new Senior Research Fellows, to pay the salary and associated costs for outstanding researchers up to the most senior ranks.

The Senior Research Fellows have been chosen by the Australian Research Council, the Federal Government's principal advisory body on research in Australia.

They form the apex of a new program which is designed to provide opportunities for the very best Australian and international researchers from post-doctoral to professorial levels.

'The establishment of the Senior Fellowships Scheme is further evidence of the Government's commitment to supporting research in Australia,' Mr Baldwin said.

'These Senior Research Fellows all have proven international reputations and will undertake research which is of major significance in its field and clearly of benefit to Australia.'

'The Senior Fellowships, which are available for up to five years, offer exciting prospects for new discoveries and leadership across all areas of research.'

Among the fellows funded are:

- a physicist/electrical engineer who will develop optical fibre telecommunications networks;
- a mathematician who will apply his expertise to improvements in the computer industry; and
- a social psychologist who will investigate the decision-making styles of successful managers.

The three British researchers who have been attracted to Australia are:

- a microbiologist whose research on heavy metals could lead to industrial applications

in environmental pollution;

- a marine biologist with expertise in the growth and development of larval stages of the Southern Rock Lobster; and
- a neurophysiologist who continues to make outstanding research contributions in auditory physiology.

Donations to Book Fair

If you have any books or magazines to donate to the Book Fair to be held in July, 1991 and are unable to leave them in the box provided in the Commonwealth Bank branch near the McMullin Building, please ring Mrs Del Manning on 52 3280 to arrange for them to be collected.

National tourism research talks

The Benefits and Costs of Tourism is the title of a two-day national forum on research in travel, tourism and hospitality.

The forum will be sponsored by the University and the Environment and Development Research Group of the Institute of Industrial Economics in October, 1991.

Announcing preliminary details of the forum, Dr Colin Aislabie, of the Institute of Industrial Economics, said the conference would be held in a setting in the beautiful Hunter or Central Coast Regions.

He said that the estimated cost of attending would be \$280 to \$320, including accommodation, meals, conference dinner and a report of proceedings.

A call for papers would be made next February.

For further information, contact Dr Colin Aislabie on 685 561 or Dr John Burgess on 685 547; or contact either by fax on 676 845.

Copyright changes: information available

As readers recall from past articles, the provisions of the Copyright Act affecting both the University and individuals have been changed substantially. The changes follow amendments made to the Act in 1989.

The Director of Legal Services, Mr Lionel Farrell, said a Joint Copyright Committee of the Australian Vice-Chancellors' Committee and Australian Committee of Directors and Principals, chaired by our own Vice-Chancellor, Professor Keith Morgan, had prepared a short guide on the law and general procedure, and a comprehensive guide, which included the short guide.

The intention was that the former be distributed for staff and student information and the latter be kept by Heads of Departments. The longer guide afforded a more detailed statement of the law and procedures, and enabled many of the copyright questions arising within the University to be addressed.

Copies of the short and the comprehensive guides on copyright had been distributed across the University, he said.

Mr Farrell has invited Departments and Divisions to arrange meetings at which he could address staff on issues referred to in the guides.

He said the Department of Psychology had been the first department off the mark, and he would attend a meeting with the department on December 3.

He has invited members of the University to submit questions on copyright which can be answered through the BULLETIN. A first question has already been received: *Q: What should I do to obtain copyright protection for my research paper?*

A: The simple answer - nothing. Copyright is automatic and there is no need to take any formal steps, such as registration. To ensure international protection, the symbol C inside a circle should be used, followed by the name of the copyright owner - in the absence of other agreement, generally the author - followed by the year (e.g. Robin Crunge 1990).

Season's Greetings - University cards



*Chaplin One (Gestural) -
Francis Celtlan*



Newcastle, Hunter's River 1820 - Walter Preston



Interior - Margaret Olley

For an artistic Christmas greeting card, the Art Advisory Group has six cards picturing items in the University's art collection.

Specifically, the colour plates used to illustrate the Christmas cards are:

Tom Thompson's *Mattara Parade*; Margaret Olley's *Interior*; Walter Preston's *Newcastle, Hunter's River, 1820* and *Black Swans ... View of Reed's Mistake River, 1820*; Francis Celtlan's *Chaplin One (Gestural)*; Frank Hinder's *Cityscape*, and Stanislaus Rapotec's *Hermes*.

The cards have been printed on fine quality paper and make beautiful and unusual greeting cards for Christmas.

Selling for \$2 each, they can be bought from Ms Liz Suggit (Hunter Building), 68 7713, and Ms Christa Moch (McMullin Building), 68 5535. Ask about bulk prices.