SRC News

When nominations closed for election as President of Newcastle University Students' Association for 1981, three students had been nominated.

The nominees are John Wlodarczyk, an Economics and Commerce student, Margaret Arag (Arts) and Paul 'anik (Science).

The President of NUSA, Mr. Greg Holding, did not stand for re-election.

The Students' Representative Council was conducting an action when University News went to press.

Mr. Holding stated that he would be a candidate in the election of the student member of the Council. He stated that he intended to apply for admission to the Faculty of Economics and Commerce.

Elections for positions on the 1981 SRC, apart from President, will be held in October. Nominations will open on September 22.

Chinese visitor

Professor Moses Kwauk, a member of the Chinese Academy of Sciences in Peking, visited the University on September 4 and 5. Professor Kwauk, who is Head of the Academy's Institute of Chemical Metallurgy, spoke to members of staff in the Departments of Chemical Engineering and Metallurgy, gave a seminar in connection with Towards a Unified Hypothesis for Fluidised Systems and visited some industrial plants in Newcastle. By making the visit, his first to Australia, Professor Kwauk hopes to foster closer relations between this University and his Institute.

From left: Professor G.J. Jameson, Professor Kwauk and Mr. B.A. Molloy.  Photo: R. O'Brien.

The Dud War

Charles Maddison, in his costume for the Russia Aid Ball, in John Romeril's play, The Dud War. Charles, a Drama I student, plays a dissolute Newcastle doctor who earns a quid on the side by flogging false ill-health certificates: "Unfit for Active Service".

The production opens on Friday, September 19 (the first anniversary of the Star Hotel riot). It is a mad scamper through the Newcastle of the Second World War, when Our Town was a little rougher around the edges.

Some people will recall the shelling of Newcastle and Fort Scratchley's less-than-successful response to Japanese mini-subs at the entrance to the harbour. Fewer will remember the crazy stories of graft, corruption and deception which John Romeril and his band of Drama students have unearthed.

This is a private production for the University - to let people on campus see the new Drama Studio in action. The season runs from Friday, September 19 until Saturday, October 4 (Wednesdays to Saturdays). You can reserve a place by telephoning Elvira Sprogis at the Drama Department on Extension 705.
Letters to Editor

Some time ago the Physics Department received unfavourable publicity, due to pass rate figures promulgated in a Senate document S.126:79, now often referred to as "The Frost Report". The pass rate for Physics IA full-time students from 1978 was quoted as being 46 per cent; the failure rate 32.2 per cent. It has been noted that the first figure is low, but is the second figure. Moreover they do not add to 100 per cent, and that is a crucial matter.

The reporting of the first figure only, out of context, has naturally caused consternation, and has misled many of the users of these figures needs to be made public. The following points must be stressed:

- Table A.1.2 of the Frost Report calculated pass rates by comparing the number of students passing, with the number of students originally enrolling. As the same table indicates, 22 per cent of that group withdrew without penalty before the final examinations. (Before the sixth week of second term.) These are not failures, but they are not failures. They withdraw without penalty. The more lenient the University is in its matriculation requirements, the more people appear in such a group.

- A considerable number of those withdrawing from Physics IA during the year transferred to, and passed, Physics IB. Physics IB is a lower level course and was introduced by the Physics Department in 1972, when NSW universities were faced with students with less grounding in Physics than previously. This followed the introduction of the Wyrrham Scheme and the subsequent plethora of changes in the Higher School Certificate courses. The pass rate for Physics IB during the period has been high, (usually close to 80 per cent). The rate of dropping out of Physics IB is lower.

- A large proportion of the Physics IA students are with the Engineering Faculty. That Faculty has consistently required that their students do "the highest level of Physics course available". There are of course, many excellently able students in the group, who have high achievement. However the weaker students in the group have had little chance of passing Physics IA. One section of the Engineering Faculty has in 1980 allowed students with poor H.S.C. attainment, to attempt the Physics IB course. This can have only a beneficial effect on Physics IA pass rates, by allowing the Physics Department to allocate students to the IA and IB courses according to their ability and previous achievement.

- For reasons which are not known, many subjects from time to time experience an abrupt temporary change in pass rates. For example 1975, 1976 Geology I, 1976 and 1977 Biology I and 1977 Chemistry I. Thus comparisons drawn between departments in any one year will inevitably be unfavourable to one or two departments.

The decline in physics achievement by school leavers is nevertheless a real phenomenon. Staff members from University Physics Departments throughout Australia have been reporting exactly the same phenomenon.

It is a pity that pressure arises within the University to adjust the pass rates artificially, and without relationship to achievement. This then comes back from the community at large, that there are many benefactors in the High School education system.

The Physics Department has provided a solution for its own subject by introducing the low level IB course in 1972. This, together with Physics IA, is now provided, and will continue to provide, a course to further the physics education of students, and to account the level of attainment of the intake.

F.T. Bagnall, SENIOR LECTURER IN PHYSICS.

I refer to Professor W.D. Wallis's letter on the subject of the Overseas Bankcard issued by the Commonwealth Trading Bank. I regret that the information in my notice to "Overseas Counterparts" which was intended to refer to such cards as American Express and Diner's Club was mis-interpreted. In relation to these fees for Overseas Bankcard issued by the Commonwealth Trading Bank compares favourably.

Professor Wallis's statement that no one is as keen as the overseas organisations have introduced annual fees ranging from $12 to $20 with some as high as $35. In some instances fees are charged on an activity basis.

I have written in great detail to Professor Wallis and hope that the position is now clearer.

P.T. MATTHEWS, Manager, Commonwealth Trading Bank of Australia, University of Newcastle.

ORGAN RECITAL

The University Organist's next recital in the Great Hall will be on Wednesday, October 1, beginning at 1.05 pm.

Mr. Michael Dudman will play the following works:

Wachet auf, ruft uns die Stimme (Bach).

Toccata and Fugue in D minor (Bach).

Choral No. 2 in D minor (Franck).

Fantasia and Toccata, Op. 57 (Stanford).
SENATE REPORT

Nominations called

The Acting Vice-Chancellor, Professor Tweedie, told September Senate that the University would receive $1,662 million from the Commonwealth in recurrent funds in 1981. Moreover $2.8 million would be earmarked for the Medical School. The University’s allocation for equipment was $1,245 million, including $353 million earmarked for the Medical School and $0.070 million for the Medical Library. The allocation to the University for minor works was $250,000 - approximately the same as this year. As regards capital grants, provision had been made for the continuing commitment for the Clinical Sciences Building of $1.9 million at 1979 levels.

In the current year formal examination period would receive $19,463 million over $2.8 million would be ear-marked for the Medical School.

Approval was given to the mid-year formal examination period to ensure that appointment of the Faculty Board. Faculty approval for the mid-year formal examination period would receive $19,463 million over $2.8 million would be earmarked for the Medical School.

As regards capital grants, provision had been made for the continuing commitment for the Clinical Sciences Building of $1.9 million at 1979 levels.

The only other allocation was for minor works was $250,000 - approximately the same as this year. As regards capital grants, provision had been made for the continuing commitment for the Clinical Sciences Building of $1.9 million at 1979 levels.

The Acting Vice-Chancellor, Mr. Phil Drew, lecturer in Architecture, assisted Newcastle Civic Gallery Society to publish an educational aid for Higher School Certificate students. The Gallery Society organised a special eight-page supplement on the architecture of Frei Otto, a major contemporary architect, whose work was seen in Civic Park earlier this year in the Frei Otto Exhibition.

As a public service the supplement is on sale at the Newcastle Region Art Gallery for 20 cents.

Student aid

Nominations have been issued calling for nominations in the election of a student member of the University Council to succeed Mr. M. Zammit whose term of office expires at the end of this year. The person elected will hold office from January 1, 1981 until December 31, 1982.

Nominations are to be delivered to the Returning Officer (Secretary to the University), the closing date being noon on Tuesday, September 30. If a ballot is necessary voting will be held at a meeting on October 15 and 16.

On-Line

Readers in the Auchmuty Library during the past few weeks may well have been perplexed by the strange behaviour of the Library staff. Having abandoned their normal places of work and ascended to the monograph reading rooms, they have been systematically removing books from the shelves and putting them back again. This behaviour has nothing to do with faulty air conditioning, the auditors or the economic situation. We are simply getting ready for our Circulation System to go "on-line".

The present circulation system, which has served us well since 1971, is a system using punch card batch processing in the old ICL 1904A computer. Now that the University has a new computer, a VAX 11/780, and the ICL is being retired, the present circulation system will no longer be functional and changes have to be made. The obsolete and decrepit punch machines (for so long the bane of the mechanics, lives) are being replaced by PDT 11-151C Processor with OCR wand readers for data input. The old blue punch cards in the pockets of the books are being replaced by machine readable labels in OCR-8 format. Labelling is the task on which we are present engaged.

We began labelling some months ago. We had 131,105 books, into which 131,105 small stick- ers, prepared by the Computing Centre, had to be put. Each sticker has to be matched to a particular book. Working in pairs, with folders of labels on top of trolleys everyone is required to label for a least one hour a day until the task is completed. We estimate that we are now more than half way there.

The basic circulation system is expected to be operational by December and fully operational by 1st Term, 1981. We are very confident that the upgraded system will be a great improvement. The PDT 151 is a complete system with a built-in microprocessor, display console and disc storage device. Each of the PDT systems can act as a stand alone station, but will normally act as a front end processor to the VAX mainframe. We apologise for causing some minor disturbance in the reading rooms but expect to return to our normal places of work in a few weeks time.

JOAN MURRAY,
Assistant University Librarian.
Sunday, September 21, is the scheduled date of departure for Dianne Atkinson, who is going to Brunel University in Middlesex, United Kingdom, to carry out more research.

Having just completed a thesis for the degree of Doctor of Philosophy, Dianne was awarded the Leverhulme Commonwealth Visiting Scholarship, which will enable her to work with Professor K.S.W. Sing's group at Brunel on special carbon surfaces.

Dianne is a former Cardiff High School student who was admitted to the degree of Bachelor of Science with Honours Class I in 1976, awarded the Jamieson Award by the Federation of University Women in 1978 and a Commonwealth Postgraduate Research Scholar from 1977 to this year.

Her father, Fred, is a member of the University's staff (attached to the Department of Psychology) and her brother, Paul, a Bachelor of Science with Honours in Metallurgy and Materials at the B.R.P. Co.'s Newcastle Steelworks.

Dianne's Ph.D. thesis was on "Zeolites - The Lattice Nature of the Surface and the Thermodynamics of Adsorption of Saturated Hydrocarbons" and the following is her report on her work.

Zeolites are aluminosilicate minerals which have both a wide theoretical and practical interest in the field of chemistry. They are used extensively (almost exclusively) in the petroleum industry for cracking of hydrocarbons and the preparation of petrol and related products and in other industries for the drying and purification of industrial gases. Their advantages over other materials of large surface area which are used also for these processes, are the crystallinity and uniform pore system of the structure, which allows a more meaningful theoretical interpretation of the results.

The surface of zeolites is acidic in nature and it is this property which is responsible for their catalytic processes. Investigations were undertaken on a number of cation exchanged synthetic zeolites, types Y and X, and showed how the number and strength of acid sites on the zeolites varied with the cation type. The technique of titration of solid surfaces in benzene with the adsorption of coloured indicators was used and appraised.

The other aspect of the thesis dealt with the adsorption of hydrocarbons on the zeolites - the determination of the heats and entropies of adsorption and an explanation of the significance of the data. The retention of these molecules within the zeolite pores was found to be influenced more strongly by the cation itself than by other possible adsorption sites.

The results of this research have led already to the publication of five articles in international journals, including a review on the acidity of solid surfaces in "Chemical Society Reviews".

Credit Union News

The University's Staff Credit Union is calling for nominations for four vacancies on the Board of Directors.

Directors, Messrs M. Edmonds, G. Askie, B. Marsden and G. Searles, must retire at the Annual General Meeting in accordance with the Credit Union's rules.

The Ninth Annual General Meeting will be held in the Southern Cross Lounge in the Union on September 23 at 5.15pm.

Messrs L. McLardy and H. Jennette are willing to stand for re-election to the Supervisory Committee. Further nominations will be called at the meeting.

The Chairman, Mr. Edmonds, will present a report on behalf of the Directors in connection with the Credit Union's activities for the year ending June 30.

Recognition

In his lesser-known capacity as a Major in the Australian Army Reserve, Mr Bede Jordan, Senior Technical Officer, has been awarded the Australian National Medal for Service. A bronze medal, it recognises Mr Jordan's army service since he joined the University of New South Wales Regiment in 1962. He was commissioned as an officer in 1966, promoted to a captain in 1972 and raised to a major in 1977.

Lake's history

Dr John Turner, of the Department of Community Programmes, and Mr Perc Haslam, a former Convocation Visiting Scholar, will conduct a short course dealing with Lake Macquarie's history for Lake Macquarie Community Centre.

The two historians will recall the early colonial times, Aboriginal lifestyles, the conflict days, first settlements, the bushrangers, Chinese fishermen, sugar, tobacco and wheat farming, orchards, brick-making and the timber industry, emphasising people and how they lived. Transportation will be featured - from the drays and coaches to the railways and so, of course, will the birth and development of coal mining and industry.

Discussion sessions, with illustrations, will be held at the Community Centre at Boola-Boola on Wednesdays, October 8, 15 and 22, from 7 p.m., and on two Sundays, October 12 and 19. The Sunday sessions will be outdoors, on the ferry Julie, and in the Watagans.
Oil from shale

Against the escalating prices of oil, of course shale oil will find a place and it could be that mining the allegedly en-ough-deposits of shale in Queensland will become an economic proposition. This is the view of a man who was a working miner with coaling in the Lower Hunter for many years.

Speaking further, Mr Jim Comerford, retired Miners' Federation President, said the price for which shale oil went on the market would be related to the community price index, which was strongly affected by the world's increasing oil crisis. This would be a totally different situation from what caused the British Australian Oil Company to close down its oil from shale venture in the Hunter Valley in the First World War.

Mr Comerford, a freelance writer and member of the Miners' Federation on the Coalfields from 1927 to 1973, is presently attached to the University as Convocation Visiting Scholar. He referred to Australia's shale deposits and specifically to those at Rundle, Jufia Creek and Condor in Queensland which appear to be really gigantic. Strategically, Rundle was very well situated close to both the coast and developed ports.

"In the Depression of the thirties," Mr Comerford said, "it was just impossible for shale oil to compete with the cheaper natural oil. However, given the same type of protection that has been given to steel and other products, it is feasible for shale oil to be extracted economically. This could be done overseas, in particular in South Africa."

"At the time we wrapped up our shale industry the South had reached the stage where they had invented a retort that processed coal and shale together."

Mr Comerford discussed the attempts made to produce shale oil profitably in the Hunter Valley in 1911. A shale mine had operated at Temi and a large treatment works at Murrurundi, with the refinery adjacent to the gasworks at Islington in Newcastle.

When you drive up the New England highway, between Aberdeen and Murrurundi you can see on the crowns of the hills on the right the skeletons of the aerial ropeway system that was used to carry the shale from the Temi mine to the retorts at Murrurundi.

The chances of reviving this venture were bad, he said, because the Temi deposit was smaller. The British Australian Oil Company had raised £520,000 to develop the project. This was a major investment with 180 men engaged to work at the mine. Production peaked at 46,000 tons in 1914. However, operations closed in February, 1915.

It looked as though the revival of shale mining would be concentrated in Queensland. Australia also possessed small amounts of shale of very rich quality in the Blue Mountains, at Murramundi, Jodja (in the Illawarra) and American Creek.

"What should happen is that the works for processing shale should be placed at a point where all the reserves can be exploited. That way we'd get a blend of the very high-quality New South Wales shale and the Queensland shale. If we did it this way we could extend the life of the fields and give our economy the benefit of the resources that exist outside of Rundle," Mr Comerford said.

Congress speaker Correction

Professor Ken Dutton, of the Department of Modern Languages, has been chosen as one of five plenary speakers at the 15th World Language and Literature Congress to be held in August next year in Phoenix, Arizona. The Congress is organised by the International Federation of Modern Languages and Literature. Its theme is Adjoining Cultures as Reflected in Language and Literature.

Other plenary speakers will include the distinguished Canadian scholar and critic Northrop Frye, whose book The Anatomy of Criticism has become a standard work on approaches to literature. Professor Dutton's paper, The Geography of the Mind, will deal with the adjoining cultures of the observing and the imagining minds in French literature.

In the last issue of the News Professor Russell Jones, Associate Professor in Biological Sciences, was reported as having said that rabbits, foxes, possums, bandicoots and feral cats were the main endangered species in Australia and that these animals were affected by the increasing cattle and sheep populations, which were removing feed.

In fact, Professor Jones said that the main danger to native Australian fauna was introduced animals which either damaged the habitat (e.g. sheep, cattle and rabbits) or preyed on the native animals (e.g. feral cats and foxes). The News apologises to Professor Jones.
**SPORT**

The City of Newcastle Sports Council will conduct a Sports Administration Conference on September 26 and 27. The registration fee for interested persons is $5. Please telephone Jock Armstrong on Extension 469 for further particulars.

Grass Skiing equipment is available for hire from The Auchmuty Sports Centre Office. The grass slopes between Nos. 2 and 3 sports ovals are ideal for beginners, so get cracking! The experts, No. 1, say grass skiing is ideal preparation for your advent into the snow skiing scene.

Courts for "half-court tennis" are being prepared on the basketball courts beside the tennis area, at No. 1 sports oval and should be ready for play within the next few weeks. "Half-court tennis" is a form of mini-tennis and the sport should prove popular with enthusiasts in the tennis, table tennis and squash scenes. Interested parties should telephone Jock Armstrong.

The University tennis coaching academy operates on Wednesdays from 6 pm to 8 pm at the tennis courts. Students and staff should avail themselves of this opportunity as the coaching sessions are now approaching the final stages.

Ladies keep fit and jazz ballet classes operate in The Auchmuty Sports Centre on Tuesdays from 10 am to 11 am. A qualified instructor is in attendance. Students and members of staff, relatives and friends are invited to participate.

The following gymnastic classes have been arranged at the Auchmuty Sports Centre for students, staff, relatives and friends:

- **Tuesday:**
  - Beginners: 4.30 - 6.30 pm
  - Inter.: 6.30 - 8.30 pm
- **Wednesday:**
  - Inter.: 4.30 - 6.30 pm
- **Fridays:**
  - Inter. & adv., 4.30 - 6.30 pm

You may enrol on the stated days at the Centre.

To cap off a memorable year of competition and social activities, University Rugby League Club will hold its Presentation Night on Saturday, September 20 at S. Stewart and Lloyd's Bowling Club.

The hours of opening at the Pavilion Sportsman's Bar are:
- **Weekday:** 7 pm to 11 pm
- **Saturday:** 4 pm to 11 pm
- **Sunday:** 4 pm to 10 pm

Faculties, organisations and Departments please note that special arrangements, for the hours for which a service is required can be made to meet your requirements.

University Cricket Club will play Sydney University at No. 2 Oval commencing at 11 am on September 21.

Inter-Varsity Squash this year will be played at the University of New England during the first week of December. Our teams have now been selected and will be: Alexis Antonia, Geoff Andrews, Clare Donnelly, Denise Donohue, Kim Collyvas, Trevor Harvey, Kim Morris, Terry McLennan, Ross Manning, Kay Stone, Terry Sinclair and Glenda Williams.

University Volleyball teams performed extremely well in this year's Winter Season. University won the Women's A Grade and Men's B Grade, as well as being semi-finalists in Men's A and Women's B. It looks as if University will win the club trophy for 1980 on this joint performance.

The Men's grand final saw a fitting 3-0 victory to the undefeated Uniwomen 1 team. Strong attack and defence, with a pinch of tactical deception, gave Uniwomen their unbeat­able combination.

The Men's B Grade grand final was played between Unim­en 2 and NCASI. Both sides wanted victory to qualify for A Grade in the next volleyball season. Unim­en 2 won 3-1 by using their strong dynamic attack, and looked in control for most of the match, although they caused their coach several heart attacks in early sets.

The Eastern Zone Volleyball championship saw University Women in second place behind ANU after a five-set grand final, while the men ran third out of six teams.

The recently formed Billiards and Snooker Club's initial match in the local competition was against B.H.P. (2) at the B.H.P. Recreation Centre. The match was close and resulted in a B.H.P. win 2-1. Spectators are welcome to attend the next evening match in the Union Billiards Room on Wednesday, September 17.

**Teacher employment**

**Final-year Non-Priority Students:** Applications for employment as a teacher with the New South Wales Teaching Service are now available at the Advisory Office at the rear of Newcastle College of Advanced Education. Applications collected from the Office should be completed and returned as soon as possible.

Interviewing of applicants for employment is scheduled to take place before the end of the year. Present planning is for an interviewing program in October and November. Intending applicants may wish to give thought to the gathering of documents they will bring to interview. Papers such as birth certificates, marriage certificates, naturalisation papers will be required, along with papers relating to qualifications.

You may care to bring any other documents which you believe are relevant to your application e.g. testimonials, statements of academic record to date, other credential documents (such as evidence of achievement in music grades).

On returning your employment application please ask the receptionist to offer you an interview time on the schedule which is being made up for the interviewing program.

**Professor returns**

Professor John Biggs, of the Department of Education, has just returned from a trip to Malaysia, sponsored by the Australian Development Assistance Bureau.

Professor Biggs acted as a resource person at a Science and Mathematics Concept Development Workshop at the Regional Centre for Science and Mathematics (RECSAM) in Penang.

The Workshop was concerned with designing research programmes into curriculum development and teacher education to meet the problems of countries belonging to the South East Asian Ministers of Education Organisation.

He also gave a keynote address to the Workshop on his research with Professor K. Collins on the SOLO Taxonomy, which is a technique for assessing the quality of learning.

Professor Biggs also addressed a seminar at the Universiti Sains Malaysia, Penang, and the Universiti Kebangsaan Malaysia, Kuala Lumpur.
ROSS BENNETT, ed.

NINGROD PUBLICATIONS 1980.

REVIEW by: DON MATTHEWS,
(Neuweston C.A.R.)

If I were an English subject
master in any local (by which
I mean Hunter Valley) high
school, I would not hesitate to
order enough copies of this new
anthology to be certain that
every Year Eleven student had
access to it. Speaking from
experience, it is just what the
teacher ordered.

That really isn’t surpris­
ing, when one considers the
experience and background of
editor Ross Bennett. Of course,
the book is not just compiled
with an eye to the young people
of the valley, but it will pro-
vide them with such a sound
balance that I would argue for
its educational value as a
primary purpose.

The Collection is attract­
ively presented, strongly bound
(very necessary if it is to
visit classrooms), and is rich
in quality illustrations.

There is a map of the district
and a useful set of pen-notes
on the contributors. Doubtless,
users of the book would have
better than average access to
the poems—another plus for
the classroom teacher.

Included in the Collection
are the following poems
by Ken
Stone are highly effective
with their natural imagery. Very
early we are aware of the edit­
or’s determination (through his
contributors) to show the
creative process as much as
possible with the audience.

Norman Talbot writes the brief
introduction to his set of haiku
with a keen awareness of reader,
and sustains a series of glimpses
from a car window until the last poignant comment
on man’s arrival. Tom Nalsby,
with his fine auditory imagery
(he provides some splendid all-
literative lines which simply
beg to be read aloud), writes
with a sharpness of eye of
which the valley must be proud.

The long Les Murray poem
which introduces the “tourist
attractions” of the valley came
ever so memorably at the
launching of the book, and the
more I read it, the better I
think it is. The effects of
the narrative imagery on our
senses as we sat and listened
then were magical, and situated
as it is in the centre of the
book, this poem provides a
strength and a stability for
the entire volume.

People... architecture
... customs ... politics
urban and suburban living and
dying... all are there. We
find Norman Talbot being swall­
owed by his own peculiar form
of trifid from his suburban
garden, while wife Jean gives
us perhaps one of the most
elegant and beautiful, ever-so-
slightly acerbic, and ever-so-
accurate pictures of the pre-
valent attitude to nature.

Perhaps it is unfair to single
out one poem in such an excell­
ent collection, but for me
Jean’s “To Jane Eyre From Aust­
ralia” is very special indeed.
The poems range from the
upper Allyn to Lake Macquarie,
from the coalfields to Nobbys,
from play to work and back a-
gain. They range from the per-
sonal, reflective nature of
Ross Bennett, with seriousness
just below the humorous skin,
to the different kind of per-
sonal poetry of Cliff Hanna,
to the unusual mixture of erudit­
ion and common man which is
Denny King’s “Vat”, so far as
I can see, there is poetry to
appeal to all tastes.

This PLACE must be made a
success. It is a gem of a book,
something which the area has
the right to claim for its her­
itage.

Advertisements

ACCOMMODATION

Are you going on leave and are concerned
about letting your home? Female research­
er would like to rent home in quite loca­
tion and would be ideal tenant. Refer­
ences available. Please telephone
Extension 776 or 654.

ACCOMMODATION WANTED

House or flat for one month - October 15
to November 15. Required for visiting
Professor and wife. Please contact Exten­
sion 739.

FOR LEASE

Quality two bedroom self-contained home
unit at Merewether. Close to beach and
public transport. First floor, lock-up garage. Avail­
able from Monday, October 13. $85 per
week. Please telephone 685 727 (office)
or 43 2688 (home).

WANTED TO RENT

One or two bedroom flat or house. Please
telephone Extension 699 (Faculty of
Medicine).

POSITIONS WANTED - TYPING

The following persons would like to type
theses, reports, occasional papers etc.

Mrs. E.A. Kinch - telephone 59 5452
Nanette Norow - telephone 46 8866
Sharon Mason - telephone 49 8593
Christine Hills - telephone 43 0217
Dot Rodgers - telephone 57 5257

FOR SALE

TOSHIBA TELEVISION SET, black and
white, 12 KLA, 29.2 cms. $60.
Please telephone 63 1064.

UNICEF CHRISTMAS CARDS, CALENDARS, DIARIES,
and STATIONERY, also CHANUKAH GREETINGS
are available from G. Johnston, C/- A.K.
Johnston, Mechanical Engineering or by
telephoneing 65 1760.

LP RECORDS:

Tom Petty and the Heart
Breakers - $6; Iggy Pop, "The Idiot" - $6;
Elvis Presley Doublelife - $13. As new
condition. All near offers considered.
Please telephone John Zink on Extension
738.

DOLL’S HOUSE - on pineboard base
approximately 1 x n in. Single storey, flat
roof - lifts off. Please telephone
656 1994.

VAX SEMINAR 1 to 2 pm. Room
VI04 (Mathematics).

VAXWALL VIVA ’67. Two Door,
Four-on-the-floor, 1300 (40 mpg), body
very sound, registered to March, 1981,
good tyres, $600 on no. Pleas­
te telephone 67 3285.

COMPUTING CENTRE

BEGINNING SEPTEMBER 22 - Pascal Course
(20 hours Tuesdays and Thursdays for
two weeks, 1 to 7 pm. Room V104 [Mathematics].)

BEGINNING SEPTEMBER 15 - Teco Course
(three hours, repeated), Mondays, Wednes­
days and Fridays 1 to 2 pm. Room V104
(Mathematics).

SEPTEMBER 29 - BMOP on VAX Seminar 1 to
2 pm. Room V104 [Mathematics].

OCTOBER 1 - NAG on VAX Seminar 1 to 2 pm.
Room V104 [Mathematics].

Every Tuesday - VMS Tutorial. Personal
help in an introductory course will be
given 10 to 11 am and 2 to 3 pm in AG24b
at the Computing Centre.
Appointments
Mrs. M.J. Bond, Stenographer, Faculty of Medicine.
Mr. Chan, Siew Wah, Professional Officer, Department of Electrical and Computer Engineering.
Professor C.A. Hooker, Department of Philosophy.
Mr. S. Williams, Technical Officer, Faculty of Medicine.

Resignations
Dr. S. Chandra, Tutor, Department of Physics.
Mr. J.W. Garner, Senior Attendant (Patrol), Bursar's Division.
Dr. R.O. McGee, Senior Tutor, Department of Psychology.
Mr. L.B. Murphy, Instructional Designer, Faculty of Medicine.
Mrs. D. Winterborn, Secretary, Department of Geology.

Advisers' Seminar
More than 40 people involved with advising students on careers have been invited to a Careers Seminar to be held in Room EAGO1, Engineering Complex, on Wednesday, September 24. The discussions, which will commence at 1.30 pm, will be centred around professional engineering, what it is, how to become a professional engineer, the engineering courses offered at the University and the professional accreditation of those courses.

The relationship between HSC performance and success in Engineering courses, including the recommended prerequisites, both by subject and interest, will be considered. Moreover, career and employment prospects will be discussed.

Professor A.W. Roberts, Dean of the Faculty of Engineering, and Professor G.J. Jameson, Head of the Department of Chemical Engineering, will be the main speakers. A feature of the seminar will be an Open Forum, where Heads of Departments, Faculty Members and professional engineers will answer questions on any aspect of careers in Engineering. The seminar is essentially a discussion not only to consider the problems of advising potential engineering students but also to demonstrate that the University of Newcastle is an excellent place to study.

Lost property
Members of the Union are reminded that many items of lost property are held by the Bank Agency and should be reclaimed. Jumpers, keys, sunglasses, folders, lecture notes, children's clothing and other miscellaneous things are held.

Diary of Events

FRIDAY, SEPT. 12
7 for 7.30 pm
The Annual Union Dinner.
Southern Cross Lounge.
Guest Speaker: Professor Manning Clark.

THURSDAY, SEPT. 18
noon
FILM - Slaughterhouse 5.
Common Room.

FRIDAY, SEPT. 19
1 pm
Southern Cross Lounge - "Give Us a Go Show".
Guest Speaker: Wherehouse Theatre.

2 pm to 3.30 pm
Department of Civil Engineering Seminar.
Mr. L.R. Baker, of Deakin University, will speak on "Design of Masonry Panels to Resist Wind Pressure".
EAGO1 (Engineering Complex).

WEDNESDAY, SEPT. 24
1.30 pm to 2 pm
Careers Advisers Seminar, Faculty of Engineering.
Welcome by the Dean (Professor A.W. Roberts). What is Professional Engineering? Courses Offered - Professional Accreditation.

2 pm to 3.30 pm
HSC Performance - prerequisites. Career and Employment Prospects. (Professor G.J. Jameson)
EAGO2, Engineering Complex.

3 pm to 3.30 pm
Afternoon Tea
Engineering video tapes, films, laboratory visits, as commitments permit.
Room EAGO2, Engineering Complex.

6.30 pm for 7 pm
Meeting of the Australian Federation of University Women, Hunter Valley Branch. Guest Speaker: Dr. Jocelyne Scutt, of the Australian Institute of Criminology, Canberra. Staff House.

THURSDAY, SEPT. 25
noon
FILM - The Deer Hunter.
Common Room.

FRIDAY, SEPT. 26
1 pm to 5.30 pm
The Institution of Engineers, Australia, Newcastle Division, Management and Industrial Engineering Branch presents a symposium on Materials - Storage and Distribution. EAGO1 (Engineering Complex).

Sing for your Supper - Stan's Bar.

THURSDAY, OCT. 2
noon
FILM - Catch 22.
Common Room.

FRIDAY, OCT. 3
2 pm to 3.30 pm
Department of Civil Engineering Seminar. Professor A. Herzog will speak on "Examples of Current Water Quality Management Practice in Central Europe and Sweden". EAGO1 (Engineering Complex).

SUNDAY, OCT. 5
8 pm
Newcastle Film Society presents BARRABERRYA. (R. Vadim, France-Italy 1967). A comic-strip space odyssey played mostly for laughs and sex by beautiful Jane Fonda, a promiscuous astronaut who finds extra-terrestrial adventures in a far-off 40th century galaxy. 801

SUNDAY, OCT. 12
8 pm
Newcastle Film Society presents BLACK MOON. (L. Malle, France 1975). A young woman drives through a countryside where a war is raging between men and women, and arrives at a house inhabited by an old lady and a mysteriously silent brother and sister. 801