A C A D E M I C A P P O I N T M E N T S

Dr. Pavel K. Smrz has taken up his appointment as lecturer in Mathematics at this university.

Dr. Smrz holds Master of Science and Ph.D. degrees in Charles University Prague and, prior to joining the University of Newcastle, held academic positions in Canada. He was a Postdoctoral Fellow at McGill University, Montreal, from 1965 to 1968, a Postdoctoral Fellow and Instructor at the University of Alberta from 1968 to 1970 and an Assistant Professor of Mathematics at the University of Lethbridge, Alberta, from August, 1970, to last April.

Dr. David V. Boyd has joined the Department of English as a Lecturer.

Dr. Boyd is a Bachelor of Arts in York University, Toronto, Canada, and holds M.A. and Ph.D. degrees in the State University of New York. Before coming to the University of Newcastle he was attached to the State University of New York in Buffalo. He was employed by the university as a Graduate Assistant for three years and also as a teacher of Freshman English for two years of this period. Dr. Boyd is pursuing research in the fields of eighteenth century English Literature and Renaissance Drama.

C O M P U T E R N O W P O S S E S S E S A S C A N N E R

The University has taken delivery of a peripheral for its ICL 1904A computer which will greatly facilitate the interrogation of the computer from outside locations and the transmission of processed replies.

The peripheral is a scanner which cost $21,000; it will consign programs into the main processor and communicate information in a reverse direction.

The Director of the Computer Centre (Mr. J. Prichard) said that the device was able to operate at a high speed and its installation completed the first significant addition to the 1904A computer. He compared the process of the scanner to that of a railway shunting yard, except that the scanner received and redirected data and programs.

A feature of the university's computer is its ability to be interrogated by teletypewriters located at remote terminals. Organisations which cannot afford computers of their own can arrange with the university to use the computer for data processing. They are then required to install teletypewriters in their offices and hire landlines from the P.M.G. Shortland County Council, The Hunter District Water Board and The Australian Food Research Laboratories at Avondale have decided to use the service and the university hopes that other firms and businesses will follow suit.

Four teletypewriters have been installed in the Computer Centre for administrative, library, research and other processes. In addition teletypewriters have been ordered for installation in four departments of the university, including Physics and Engineering. Eventually further units will be installed in the Social Sciences building.
The scanner that the Computer Centre has acquired will be a useful common link between the main processor and the teletypewriters. It is sufficiently sophisticated to handle 16 remote connections simultaneously while also coping with card readers and line printers. The teletypewriters can transmit information at a maximum speed of 12 characters a second, whilst the scanner can operate at several hundred times this speed.

**LOCAL FAMILIES CAN BE HOSTS**

A Host Family Scheme, which endeavours to arrange for families to "adopt" overseas students, has been introduced by Newcastle Co-ordinating Committee for Overseas Students, which is commending the scheme to Newcastle people and asking them to offer to act as "host families".

Similar to schemes operating in other universities in Australia, the host family arrangement does not mean that overseas students live or board with their hosts; rather, they are made to feel welcome to visit any time - in the evenings and at weekends.

The period of time the student remains an "adoptee" of a family will depend primarily on the quality of the relationship that is built up between them.

The Committee has stressed the voluntary nature of the arrangement, which, in effect, endeavours to give students a kind of "home away from home".

The Co-ordinating Committee is getting the scheme off the ground by preparing a list of students who would be interested in having families to whom they can turn when they are lonely, bored or in need of company. Further, it is explaining to members of prospective "host families" that willingness to "adopt" overseas students means primarily that the hosts would provide virtually open house to the students so that they, in effect, have anchorages.

The Co-ordinating Committee believes that the ideal start would be the meeting of overseas students by "host families" on their arrival. If this is impossible, the students should be adopted very soon after they arrive, because this is the period in which students are most lonely or disoriented and in need of a "home away from home", and, if good relationships can be built up with "host families" at this stage, they are more likely to become stable and long-lasting.

Although it hardly needs saying, the committee is mentioning the fact that students would be neither expected to return hospitality in any way nor made to feel obligated to go to meetings, give talks or anything of this kind. Students are very busy people and "host families" are being informed that they should not feel offended if students sometimes decline invitations due to pressure of work. A feeling of freedom to come and go is seen as most important.

Students who wish to have "host families" are being asked to get in touch with the university's Overseas Student Adviser (Mrs. R. Loftus), whose office is room T10 in the temporary building. People who agree to act as "host families" are being requested by the Co-ordinating Committee to fill in forms giving information of their interests and background so that they might be aligned as closely as possible with students of mutual interests. Any information given will be treated as confidential.

**1ST SEPTEMBER START FOR CREDIT UNION**

The University of Newcastle Staff Credit Union Limited was formed on 20th July; plans for the Credit Union to be registered by the State Government are being implemented by the following elected officers:-

Board of Directors:

Mr. M.E. Edmonds (Chairman), Mr. P.N. Chopra (Vice-Chairman), Mr. D.W.H. Mudway, Mrs. J.P. Odgers, Mr. T.R. Rodgers, Mr. L.F. Norberry, Mr. N.G. Keats, Dr. N. Rutherford and Mr. J.M. Armstrong.
Secretary: Mr. T.G. Chapman.

Treasurer: Mr. D.R. Doherty.

Supervising Committee: Mr. N.W. Porter, Mr. H.K. Thomson and Mr. B.T. Colditz.

It is expected that the Credit Union will begin operations on 1st September with a loan limit of $400 applying until membership warrants an increase.

By a unanimous decision of the Board of Directors membership will be extended to include employees of the Union, the Staff House Club, the Sports Union, graduate students carrying out work at the university, employees of the Hunter Valley Research Foundation and members of the immediate families of employees of the university.

The credit union will be registered under the Credit Union Act and will offer its members an opportunity to improve their personal and financial position through co-operation. The objects are to raise a fund by means of the university making payroll deductions on behalf of members for savings purposes and by voluntary contributions, to make loans to members in accordance with the rules and to encourage habits of thrift amongst the members.

Each member will be required to pay an entrance fee of 50c and take up five shares valued at $2 each. When members withdraw from membership of the Credit Union they cash in their shares.

The first important function of the Credit Union is to encourage members to save by regular instalments. It is proposed that a rate of interest of 5% per annum, calculated on the minimum monthly balance, will be paid on these savings. The accumulated savings of the members will be made available to other members requiring financial assistance.

The next important function of the credit union is to provide loans to members at a convenient rate of repayment and at a reasonable rate of interest which is lower than that charged by other financial institutions for personal loans and similar credit. It is proposed that a rate of interest of 1% per month, calculated on the unpaid balance of the loan, will be charged. This means that $100 borrowed for twelve months and repaid by equal monthly instalments would cost approximately $6.60. Loans will be granted to members for any good and productive purpose such as buying land, cars and furniture; meeting holiday, medical and school expenses; and consolidating outstanding debts.

It is a fundamental principle of the credit union movement that the first consideration when granting a loan is to the member's good character. Accordingly, members who may have little or no assets, but who are of good character, will be granted a loan provided they are able to repay the loan.

Prospective members will be encouraged to join and save in the Credit Union, even though they cannot foresee the need to borrow, and thus help themselves by saving, as well as helping other members who may require financial assistance.

People can now make preliminary arrangements to join the Credit Union. Application forms and forms authorising payroll deductions are available from Mr. N. Porter (Accountant's Department), Mr. D. Mudway (Mechanical Engineering, Tighes Hill) and Mr. J. Armstrong (Secretary's Division). Members can pay for their shares either in cash or by payroll deductions.

PRIZES FOR WOMEN STUDENTS

The N.S.W. Association of University Women Graduates offers annual prizes of not less than $25 and not more than $50 to outstanding women students in any university within N.S.W. completing final or honours year.

One prize each is given in the following fields: 1) Arts, 2) Science, 3) Medicine, 4) Architecture or Engineering or Commerce or any other recognised Degree Course.
These prizes have been available for only three years and already two have been won by Newcastle graduates; Mrs. Judith Dickson (nee Wilson), Honours Graduate in Geography and Mrs. Marelle Rawson (nee Tacon), Honours Graduate and Medallist in Mathematics.

Candidates wishing to apply for these prizes may obtain forms and information from the Examinations Officer, Miss G. Jones. Completed forms must be at the Association Office in Sydney by 15th September, 1971.

LECTURER INVITED TO CANBERRA

Dr. D.M. Keats, Lecturer in Psychology, will go to Canberra later this month to give an address at an Interstate Conference of Co-ordinating Committees for Overseas Students and Welfare Officers. She was invited by the Department of Foreign Affairs, which stages the conferences to assist co-ordinating committees with their work of promoting the welfare of overseas students.

The conference will be held on 26th and 27th August and Dr. Keats will speak on "The Welfare of Overseas Students in Regional Centres". She has pursued extensive research in this field and is Vice-President of Newcastle Co-ordinating Committee for Overseas Students.

FOR SALE

Car
1965 Morris 1100 sedan in excellent condition; registered to June, 1972; price $800; enquire of C.M. Ablow, Ext. 207 or telephone 57 2903.

House
13 Rankin Drive, Waratah West. Three bedroom house, weather board and tile, large loungeroom, large kitchen, separate shower in bathroom, built-ins in main bedroom. Large block of ground, 77 ft. frontage, 90 ft. depth. Light fittings, curtains, blinds, carpets included. $15,000.

REQUEST FOR LECTURERS TO VISIT LEBANON

The Secretary of the Department of Foreign Affairs in Canberra has been approached by the Australian Embassy in Beirut about the possibility of Australian scholars paying visits to Lebanon en route to Europe on sabbatical leave. The Department of Foreign Affairs and the Department of Education and Science agree on the merits of such visits, if they can be arranged, and the costs, would appear to be limited to accommodation expenses, with the Ministry of Education in Lebanon possibly meeting the expenses in some cases. The Department of Foreign Affairs is apparently also prepared to consider meeting these expenses where necessary.

There is, however, the problem of language. It is understood that French is still the predominant European Language in the Lebanon, and the Australian Lecturer would probably have to deliver his lectures in French if he were to reach a wide audience. The Department of Foreign Affairs has asked that any interested person contact that Department about the possibility of lecturing in Lebanon.

LIBRARY WILL OPEN AT LONG WEEKENDS

In future the University Library will be open at long weekends, except Easter. The new arrangement will start on 2nd, 3rd and 4th October (the Six Hour Day public holiday). The Library will open at 9 a.m. and close at 5 p.m. on the
Saturdays and Mondays of long weekends, and open between 1 and 5 p.m. on the Sundays.

The University Librarian (Mr. E. Flowers) said the decision to open was made following a general discussion by members of the Staff/Student Consultative Committee on possible ways of the Library providing improved services for part-time students. He said the new hours would apply to Queen's Birthday weekend (June), Six Hour Day weekend (October) and Anzac Day weekend (April) when Anzac Day merged with the weekend.

Mr. Flowers informed the S.S.C.C. that part-time students were permitted to 'phone the Library during the day to reserve books in the Reserve Collection for use in the evenings.

A SUCCESSFUL W. U. S. WEEK

The World University Service raised more than $800 for its SACHED appeal from W.U.S. week (19th - 23rd July). Sent to South Africa via W.U.S. headquarters in Geneva, the money will pay for two SACHED scholarships and leave a little to spare. The scholarships will be awarded to two black South African students.

At present there are approximately 100 SACHED scholars. Some are studying for their matriculation and many are studying for external degrees with the University of London.

W.U.S. asked for this opportunity to acknowledge, and express its gratitude for, the help given by the citizens and students of Newcastle. A number of local firms and businesses provided prizes which constituted the essential material upon which the SACHED scholarships were based.

W.U.S. also received an enormous amount of support from some members of the university's staff. The Miss University quest would have been impossible without other people who acted as judges. The entrants in the quest were: Vivienne Waterhouse (Geography Society), who was chosen to be Miss University; Jayne Whiley (Surfriders Club) who is Miss W.U.S.; Rikki Beacroft (French Club); Kay Byrnes (Table Tennis Club); Lyn Champaan (Hockey Club); Anne Kizeweter (Engineering Fraternity); Gai McPhan (Rugby League and Chess Clubs); Lily Santosa (Overseas Students Association) and Sue Wark (Commerce Society).

In the background W.U.S. received secretarial assistance from members of staff and help from the Union, the S.R.C. and the staff of Opus. Certain clubs donated money. To all these people and the others who supported the appeal, W.U.S. says "Thank You".

AUSTRALIAN ROAD RESEARCH BOARD RESEARCH STAFF

The Australian Road Research Board was established by the National Association of Australian State Road Authorities to carry out research towards providing better, safer and cheaper roads.

The Board is expanding its activities in all fields and will move to a new Research Centre in 1972. Several positions are therefore available to engineers or other suitably qualified persons for research in all aspects of highway and traffic engineering. The appointees will join a team of engineers and scientists carrying out research throughout Australia and will have close contact with Board sponsored projects at most Universities.

Research will be undertaken in these areas:

- pavements, structures, traffic engineering, transport planning, human factors.

Further details and application forms are available from the Appointments Officer (Room U. 10).
Full particulars about the conditions and the procedures for applying for the following Scholarships and Fellowships may be obtained from Mr. J.D. Todd at Student Administration Office.

I.B.M. Postgraduate Scholarships Plan

The University of Newcastle is eligible to submit candidates for an award under the I.B.M. Postgraduate Scholarship Plan in 1972. The Plan is designed to support higher education in the fields of Computer Science and its applications. The broad objectives of the Plan are:

1. To provide additional opportunities for graduates to pursue higher degrees in Australian Universities in the field of Computer Science, or the application of Computer Science to Engineering, Science, Education and the Humanities.

2. To offer a working environment in the form of access to the staff and facilities of the I.B.M. Systems Development Institute in Canberra, to assist in research and development work leading to a higher degree.

The maximum periods for which a Scholarship may be held are as follows:

i) for a Masters degree, no longer than two years, with no extension;

ii) for a Ph.D. degree, normally three years, although an extension into a fourth year may be granted under certain conditions.

The Scholarship is open to all persons satisfying the University's normal requirements for admission as a candidate for a higher degree. The Scholarship is tenable in the field of Computer Science, or in the application of Computer Science to other disciplines, e.g., Engineering, Science, Education or the Humanities.

The stipend paid under the Scholarship ranges from $3,200 in the first year to $3,600 in the third year with a dependents allowance (covering wife and children, if any) of $600 per annum. A further grant-in-aid covers expenses such as: tuition fees, text books, travel, thesis costs, establishment costs, etc. An award holder also has the opportunity to attend the I.B.M. Systems Development Institute in Canberra at regular intervals.

Applications close on 30th November, 1971.

The Shell Postgraduate Arts Scholarship - 1972 (Arts, Commerce, Economics or Law)

The Shell Company of Australia Limited is offering one Scholarship, tenable at Oxford or Cambridge Universities, for two years from the commencement of the Michaelmas Term, October, 1972.

The Scholarship is valued at £1,600 Stg. per annum. In addition the cost of the passage to the United Kingdom and the return passage to Australia, if effected within twelve months of the completion of the Scholarship period, will be paid by the Company.

The Scholarship is open to British subjects who have been domiciled in Australia for the last five years and who have successfully completed a full-time course for the degrees of Bachelor with Honours in Arts, Commerce, Economics or Law, at an Australian University by 31st January, 1972, or alternatively, have proceeded to a Masters degree in one of these disciplines. Candidates must be under the age of 25 years at the date on which applications close.

The successful candidate will be expected to select a course of reading, leading to a Bachelor's degree with Honours or to an appropriate further degree or advanced diploma.
Applications close on 4th October, 1971, and should be made on the prescribed form and lodged with the Staff Co-ordinator, The Shell Company of Australia Limited, Corner Margaret and Carrington Streets, Sydney, New South Wales.

The Shell Postgraduate Scholarship in Science or Engineering - 1972

The Shell Company of Australia Limited is offering one Scholarship, tenable in the United Kingdom from the commencement of the Michaelmas Term, 1972 for postgraduate work in Science or Engineering. The Scholarship is designed to enable a graduate to undertake two years' postgraduate work leading to the degree of M.Sc. or Ph.D. at the Universities of Oxford, Cambridge or London, or at such other U.K. University as may be appropriate for the specialised nature of the studies which the scholar intends to follow.

The Scholarship is valued at £1,600 stg. per annum. In addition the cost of the passage to the United Kingdom and the return passage to Australia, if effected within twelve months of the completion of the scholarship period, will be paid by the Company. The award is normally granted for a period of two years, but an extension into a third year may be granted under certain conditions.

The Scholarship is open to British subjects who have been domiciled in Australia for the last five years and who have taken with Honours, a first degree in Science, including Applied Science, or Engineering at an Australian University and preferably have had at least one year's experience in research. Candidates must be under 25 years of age at the date on which applications close.

Applications should be made on the prescribed form and lodged with the Staff Co-ordinator, The Shell Company of Australia Limited, Corner Margaret and Carrington Streets, Sydney, New South Wales. Applications close on 4th October, 1971.

The Flinders University of South Australia Research Fellowships - 1972

Applications are invited from suitably qualified applicants for Research Fellowships tenable in any of the five Schools of the University. The Fellowships will normally be tenable for one year. Applicants should have completed a Ph.D. degree or be completing work for a Ph.D. degree during 1971 or have had the equivalent research experience.

The appointments will be made in the salary range $A5,829 - $A6,844 according to qualifications and experience.

School of Biological Sciences: Biochemistry, Biophysics, Biosystematics, Cell Physiology, Developmental Biology, Experimental Cytology, Genetics and Microbiology.

School of Humanities: English, French, Spanish, Italian, Linguistics, Drama, Philosophy, Fine Arts and Music.


Further details about the above Awards may be obtained from: The Registrar, The Flinders University of South Australia, Bedford Park, South Australia. 5042

Applications close at the above address on 31st August, 1971.

The Royal Society Commonwealth Bursaries Scheme

The purpose of this scheme is to provide a means by which scientists of proven
ability may increase their competence by working with scientists of a Commonwealth country other than their own, where the physical or personal environment is peculiarly favourable. The bursaries are for enabling such scientists to pursue research, learn techniques, or follow other forms of study in the natural and applied sciences. In the latter, Royal Society and Commonwealth Foundation Bursaries will be devoted especially to agriculture, fisheries, forestry and the development of natural resources.

Applicants are expected to occupy permanent salaried posts to which they will return at the end of the visit, normally six to twelve months, depending on the project to be completed. Study towards higher degrees or diplomas is specifically excluded. Bursaries may provide for travel and an allowance towards maintenance at an average rate of £80 per month depending on the applicant's circumstances and living costs in the country to be visited. No specific provisions are made for families.

Application forms and copies of the detailed regulations governing the scheme may be obtained from the Executive Secretary, The Royal Society, 6 Carlton House Terrace, London, SW1Y 5AG, to whom completed forms should be returned to arrive before 15th March each year for proposed visits commencing in July of the same year and later, and before 15th September for proposed visits beginning in January of the following year and later. These closing dates cannot be varied and applicants are strongly advised to make their arrangements as early as possible.

Coming Events

Visiting Professor

Professor R.B. Potts, Head of the Department of Applied Mathematics, the University of Adelaide, will visit this university on 12th and 15th August.

While in Newcastle Professor Potts will deliver a public lecture on behalf of the Newcastle Mathematical Association. The lecture will be concerned with "Why Some Applied Mathematicians Never Have to Use the Calculus" and will be centred around linear programming and its application. Professor Potts will deliver the talk in Room 22 at Newcastle Teachers' College on 12th August at 8 p.m.

Professor Potts has made important contributions to the application of operations research to transportation and similar problems. These contributions have earned him world-wide recognition.

He has recently completed a project for the Commonwealth Department of Trade and Industry involving the application of operations research techniques to containerization problems in the shipping industry.

Professor Potts is External Examiner for the Faculty of Mathematics this year.

Philosophy Club

Professor Brian Medlin, Professor of Philosophy at Flinders University, will read a paper on "From Theory to Practice" on Thursday, 12th August, 1971, at 1 p.m. in the Union Lounge.

On the following day, probably under the auspices of S.R.C., Professor Medlin will address students at 1 p.m. in the Union Courtyard on "Strategy for the Revolution".

Staff House Annual General Meeting

The Annual General Meeting of the University of Newcastle Staff House Club Ltd. will be held at Staff House on Friday, 13th August, 1971, at 1.30 p.m.

The business of the Meeting will be:

1. To receive the Annual Report, Balance Sheet and Income and Expenditure Account for the period from the date of incorporation (23rd September,
1970) to 30th June, 1971. These documents will be sent out not less than seven days before the date of the Meeting.

2. To elect a Committee of Management consisting of a President, Vice-President, Honorary Secretary, Honorary Treasurer and four members for the ensuing year.

3. To elect an Auditor for the ensuing year and to fix his fees and expenses. The retiring Auditors, Messrs. Forsythe & Co. being eligible, offer themselves for re-appointment.

4. To transact any other business.

Before the meeting a smorgasbord luncheon will be served, beginning at 12.30 p.m. The charge for the smorgasbord is seventy cents, payable at the door.

Overseas Students

Overseas students of this university have been invited to raise their problems with Australian Government representatives and leaders of overseas students' association at an informal meeting in the Union Lounge on Thursday, 12th August, at 6 p.m.

Represented will be the Departments of Foreign Affairs, Immigration, and Education and Science, as well as the Overseas Students' Service and the Overseas Students' Association. The University's Overseas Students' Adviser (Mrs. R. Loftus) will chair the meeting.

Mathematics Seminars

A seminar will be held in Room AG.24 on Friday, 6th August, at 12 p.m. Miss Pauline Cain, a third year honours student in the Department of Mathematics, will speak on "An Introduction to Decision Theory".

Dr. Anne Street, of the Department of Mathematics, University of Queensland, will be visiting the university on Friday, 13th August, and will present a seminar on "Addition Theorems in Finite Groups" in AG.24 at noon.

Staff Social Club

Members are advised that the Annual General Meeting of the University of Newcastle Staff Social Club will be held in the Physics Lecture Theatre on Tuesday, 17th August, at 1 p.m. The meeting will elect a President, Vice-President, Secretary, Assistant Secretary, Treasurer, Auditor and four Committee Members.

Nomination forms have been circulated to all members and those persons interested in taking an active part in the affairs of the Social Club are requested to return duly completed nomination forms to the Secretary (Mrs. L.C. Rynehart, Accountant's Department).

SPORTING NEWS

Regatta

More than 100 students participated in the 1971 Inter-Faculty and Inter-Tertiary Regatta at Raymond Terrace on 1st August.

One of the most exciting races was the Inter-Faculty Trophy, rowed over 1,000 metres. Commerce No. 2 was in opposition to three Engineering crews. The very close finish saw Engineering No. 3 just half a canvas ahead of Commerce. A foot behind, in third place, was Engineers No. 1. In the Invitation Eights race, the University Inter-Varsity crew proved too good for the Taree eight. Taree beat the Newcastle four in the James King Challenge Cup.

These faculties were represented in the Regatta: Arts, Commerce, Engineering,
Science and Applied Science, The Vice-Chancellor presented the trophies to the winners. Thanks are due to the officials who worked hard to organise the Regatta. Mentions must be made of Mr. Jack Simmons, Activities Officer of Newcastle Technical College, who supervised the ramp, and Vernon Dunning, who was Starter.

Inter-Tertiary Sport

The Inter-Tertiary Sporting Competition was won by Newcastle Teachers' College (43 points). The University of Newcastle (39) was runner-up and Newcastle Technical College (24) finished in last place. Competitions were staged in 12 codes.

Inter-Faculty Sport

The 1971 Inter-Faculty Sporting Competition ended with Engineering defeating Architecture in Hockey by 2 goals to 1. The win gave Engineering the Kleeman-Hall Trophy.

Arts won the Soccer division of the competition by beating Engineering 6-0.

In Rugby Union, Engineering defeated Commerce 8-6 in the final and was awarded the Brian O'Shea Trophy.

Engineering took out the Inter-Faculty competition by accruing a total of 39 points. Next was Arts (37) and then Architecture (27) and Commerce (25).

Forthcoming Fixtures

Australian Rules:
7th August, University plays West, Harker Oval;
14th August, first semi-final.

Rugby Union:
7th August, University bye;
14th August, University plays Brisbane Water, University Oval;
21st August, University plays Tech. College, McDougall Field.

Soccer:
7th August, A.A.C. Cup, University plays Edgeworth, Edgeworth;
8th August, University plays Garden Suburb, Stevenson Park;
15th August, University plays Argenton, Argenton.