The University has attracted grants from the Australian Research Grants Committee for a record number of new research projects next year. The 46 grants announced are worth $381,784. This compares with 41 grants worth $300,175 for work commenced in 1979.

Faculty of Medicine staff have also won support from the National Health and Medical Research Council for seven projects worth $134,168 in 1980. A decision on four additional NH and MRC applications has yet to be made.

A further $180,000 in research funds has been pledged to the university for energy research projects. The grants have been approved by the National Energy Research, Development and Demonstration Council, attached to the Department of National Development. The staff members to receive support are:

- Professor S. St. J. Warne, of the Department of Geology, $65,000 for a project in conjunction with the University of Wollongong (see inside the News);
- Dr. T. F. Wall, of the Department of Chemical Engineering, $77,687 for research in connection with combustion and gasification of coal, and, in conjunction with the University of the Department of Geology, $17,200.

The Reserve Bank of Australia has announced support from its Rural Credits Development Fund to two research projects to be undertaken at the university.

Professor C.A. Tisdell, of the Department of Economics, has received a grant of $3,750 to investigate economic aspects of noxious animal control with special reference to feral pigs in New South Wales and Queensland.

Dr. J.E. Smart, of the Department of Sociology, is to undertake research into the sociological variables effecting changes in wine consumption patterns supported by a grant of $7,050.

Here is an overall summary of the ARGCC and NH and MRC grants received so far, compared with last year.

<table>
<thead>
<tr>
<th>Grant Type</th>
<th>No. of Recipients</th>
<th>Value of Grants</th>
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<tbody>
<tr>
<td>ARGCC</td>
<td>1979</td>
<td>1980</td>
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<tr>
<td></td>
<td>41</td>
<td>46</td>
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<td>NH and MRC</td>
<td>1979</td>
<td>1980</td>
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<td></td>
<td>14</td>
<td>10</td>
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Some of those awarded NH and MRC grants were provided with continuing support in 1981 and 1982.

Among the grants announced by the Australian Research Grants Committee are 31 valued at more than $10,000:

- Professor R.A. Antonia, of the Department of Mechanical Engineering, $120,000 for a project in connection with Transverse Flow in Turbulent Shear Flows. This is a continuation grant.
- Professor A.J. Guttman, of the Department of Mathematics, $100,000 for research on Entrainment, Mixing and Ignition in Particle Laden Jets. This is a continuation grant.
- Professor S. St. J. Warne, of the Department of Chemical Engineering, $36,861 for a project dealing with in-situ gasification of coal.
- Professor R.W. Robinson, of the Department of Mathematics, $20,100 for a project, Numerical Implementation of Unlabelled Graph Counting Algorithms. This is a continuation grant.
- Professor T. Wall and Professor J. M. McC. Stewart, both of the Department of Chemical Engineering, $150,000 for research on Computer Aided Techniques for Multivariable System Identification - Experiment Design and Data Analysis. This is a continuation grant.

Dean, Sub-Dean

At its meeting on October 31, the Faculty Board, Faculty of Arts, elected Professor M. Tanner Dean of the Faculty from January 1, 1980 to December 31, 1982. The Faculty Board also appointed Dr. P.J.A. Hempenstall Sub-Dean of the Faculty for the same period.
HEAD AND ACTING HEAD OF DEPARTMENT - COUNCIL SEeks STAFF VIEWS ON POSSIBLE CHANGES IN APPOINTMENT PROCEDURES

The Committee established by the Council to consider aspects of University Government reported at the October Council meeting on certain matters relating to the appointment of Heads and Acting Heads of Department. At the request of the Committee, Council is seeking the views of academic staff before specific recommendations are prepared.

The Committee noted that no provision is made in the Regulations for the appointment of an Acting Head of Department pending Council appointment under regulation 10 either after the expiration of the three-year term of office or before any person is appointed an Acting Head under the regulation is made. The application of the provisions relating to the timing of the procedure is prescribed in the regulations thereby creating an inflexibility which may not be desirable. The Committee believes that flexibility could be achieved if regulations 10(1) and 10(5) were omitted. A provision could then be added for the appointment of an Acting Head pending the election of a Head.

The Committee also noted that the Regulations state that Associate Professors and Professors may submit their names for nomination for the office of Head of Department and that the permanent academic staff of the Department participate in the election. However, the point of time at which the staff become eligible to participate, either as candidates or voters, is not prescribed. One example of the difficulties that may arise because of this deficiency illustrates the problem.

In the Department of Education a Professor, who had been appointed and was due to take up duty before the vacancy occurred but after the time at which the election procedure had to be instituted, if it were to be completed before the vacancy occurred. If the Professor-elect had been excluded as a possible candidate, or indeed as a voter in that case, the staff of the Department would have been deprived of their opportunity to vote for him before the vacancy occurred, whether the step be thought good or bad.

The omission of subregulation (5) would remove this restriction on the timing of the election but would add to the restrictions of the electorate. A possible approach would be to adopt the principle that any person who had been appointed to the permanent academic staff of the Department and whose date of entry on duty had been finalised and fell within six months of the date on which the vacancy would occur, should be permitted to participate in the election and the ballot.

The Committee wishes to have the views of the academic staff on these observations before making specific recommendations to the Council. Members of staff are invited to send any comments to the Secretary to the University before Christmas, if possible.

The first recommendation from the Committee was that Regulation 10(3)(b) of the Governing Departments be amended so that a ballot will automatically be conducted if more than one Professor or Associate Professor submits his name for nomination in an academic lecturer's case. The line 'We are waiting for Godot' becomes a laughing matter in itself. Vladimir and Estragon's problem is that they cannot make up their minds to leave the desolate spot on the road where the play takes place - both acts end with them agreeing to leave, but remaining motionless. By contrast Pozzo has two magnificent exits, stalling off with his servant Lucky at the end of a rope. David Frost's interlude is appropriately startling and Stephen Clarke's appearance as Godot's boy was as ambiguous as one could wish.

Waiting For Godot

Review by D.H. Craig.

The unexpected thing about the production of Waiting for Godot by the Drama Department and Warehouse at the Arts Drama Theatre is that it makes the play seem busy, colourful and crowded. The stage is peopled by ghosts as well as live characters: Hollywood shades like Stan Laurel in Stephen Abbott's Estragon; generations of men in Gary Maclean's Vladimir; Calin, Abel and 'all humanity' in David Frost's Pozzo. There is incessant business with bodies. His self-mimicking vaudeville exaggeration of gesture and voice left us in no doubt that he and Vladimir were acting out the orchestra's movements to the sound of the colour backdrop, instead of our lives. In the first act, this exaggerated deliberateness was almost too insistent and masked the line of the play's sparse and oddly familiar dialogue. Gary Maclean's Vladimir, though fainter in his presence, and carry the dialogue more naturally and unobtrusively forward.

In the second act the structure of Beckett's design began to appear and to drive the play along. Many very - a design of sinister symmetry, which involves the audience with Vladimir and Estragon in the unsettling repetition with variations of the action of the first act. Estragon struggles with his boot again and longs for something to eat. Pozzo and Lucky arrive once more, but nothing is quite the same: there are no more carrots left, and it is now Pozzo instead of Vladimir who is held upright like a corpse between the two tramps. Estragon, Pozzo and Godot's messenger boy refuse to corroborate Vlad-

Vladimir's memory of what happened yesterday, or the first act: the nightmare of amnesia infects the audience as well, along with the black humour of the situation of the two tramps, condemned to wait by the tree for what might be all eternity. The line 'We are waiting for Godot' becomes a laughing matter in itself. Vladimir and Estragon's problem is that they cannot make up their minds to leave the desolate spot on the road where the play takes place - both acts end with them agreeing to leave, but remaining motionless. By contrast Pozzo has two magnificent exits, stalling off with his servant Lucky at the end of a rope. David Frost's interlude is appropriately startling and Stephen Clarke's appearance as Godot's boy was as ambiguous as one could wish.

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Mr Cambodina

Mr. Alan Renouf, who has been described as Australia's most experienced diplomat, said at the University on November 7 that a general agreement with the former Prince Sihanouk, leading a coalition government, was the only ray of hope for Kampuchean Cambodia. Mr Renouf asserted. He was giving a public lecture for Convocation.

"The Kampuchean problem began when the then president of the United States, Mr. Nixon, and Mr. Kissinger investigated the South Vietnamese attack on Cambodia, which, until then, had had integrity and independence", he said.

Mr. Renouf joined the Department of Foreign Affairs in 1943. He served in 12 Australian missions overseas and was Australian Ambassador to the United States when he retired in June 1975. The Prime Minister, Mr. Fraser delivered his major foreign policy speech in June, 1975, and it contained two key words, balance and realism.

Mr. Renouf said.

"In some areas of foreign policy the Australian Government had achieved those two aims."

"I have no criticism of our conduct of the relationship with China, but I wonder how much this is a function of the mutual distrust of Russia."

"Our Government is more supportive of the United Nations than that of conservative complexion I have known", he said.

Another plus for Australia was that it was more sturdily independent of the United States than any previous Liberal-Country Party Government in our history.

"But in other areas realism and balance are lacking, as in our attitude to the USSR, where we show too much ideological sentiment reminiscent of the Cold War. Let's not be carried away by the fear of communism. The USSR is Russia, the eternal Russia."

Mr. Renouf added: "A historical phenomenon that Russia has maintained armed forces well beyond the needs of self-defense."

"I have never believed that the Russian presence in the Indian Ocean was a threat to us", he said.

"I agree with the Chinese that Russia has become bourgeois, not revolutionary, she has great troubles at home and abroad. Her growth has fallen to 3 percent, she has increasing energy problems and a growing labour shortage, and the consumer expectations of her people are not being satisfied."

"The USSR had sought allies, but has gotten client states. Cuba is receiving her $3 million per day. What is the return to the USSR?"

"It is difficult to perceive the degree of apprehension shown by our Government to the USSR, and to suggest as Mr. Fraser has the Asian refugee problem is a Russian plot to destabilise South East Asia is sheer fantasy", he said.

"Australia should be wary of Russia, but not scared. Australia had not shown balance and realism over Vietnam. Our only means of exercising influence there was lost when the small Australian aid program was cut off. A silly decision", he commented.

Mr. Renouf had a final word about the relationship between public servants and Government Ministers.

"I believe we have corrupted the Westminster system of Government to a point where it is unrecognizable today. The decision-making process calls for public servants to submit facts to recommendations to Ministers to decide what should be done."

"However, at the moment public servants feel discouraged from submitting fearless advice, and this is a great problem", he said.

Mr Cambodia

Mr. Nixon would have international relations with Sihanouk, then the king of Cambodia, to show goodwill and respect for Cambodia. Mr. Nixon should go to Cambodia to talk with the first minister of the government of Cambodia and work with Cambodia to achieve their international relations.

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**LETTERS**

Can anyone tell me who is responsible for the upkeep of the public address systems in the various lecture theatres? I am referring specifically to those theatres which are open to the general public, e.g. E01 and E02. On two occasions recently, and on a number of occasions in the past, I have been present at public lectures in these theatres, and in both instances the public address system has either failed to function at the outset, resulting in a delay to proceedings, and also continued failure of the system, despite efforts to put it right; or on the other hand failed during the course of the lecture, so that the majority of the audience was unable to hear the speaker and had to request him to "speak up".

With the increasing awareness of the necessity to put forward a public image, surely it is very important that essential part of the functioning of our public halls should be adequately maintained and monitored.

This matter, together with clear signage on the internal roads to indicate the parking area and the turn-of to the theatre mentioned would also be helpful. It could be observed that our lettering system is not very clear to the outsider. Some of the audience attending the recent lecture in the theatre would not even have known who the speaker was.

Neither of the students in this controversy is known to me - nor do I know in what particular area they are studying. But one of them needs remedial English tuition very badly.

Perhaps it is not generally known that B.Ed. Studies students who are taking teaching English as a second language, are ready and eager to help anyone, on one to one basis, with improving their command of the English language.

**JEAN M. LEY**

**SENATE**

The Vice-Chancellor reported on the visit of Professor D.N.F. Dunbar, Chairman of the Universities Council on University on October 24. Whilst Professor Dunbar had primarily been concerned with matters regarding the provision for financial support to students, the opportunity was taken to discuss other matters and allow him to visit the Radium I at Royal Newcastle Hospital.

The Vice-Chancellor told Senate that it was hoped that the main computer in the Computing Centre, the TIC 1506A, would be replaced by a new computer before the middle of next year. The work of a technical advisory committee had come to an end and the Council was expected to be asked to approve a tender for a new computer before the end of 1979.

Senate was informed that the Faculty Board, Faculty of Engineering, had elected Prof. G.Colour, Acting Dean of the Faculty from January 1 to July 31, 1980.

The Faculty Board, Faculty of Engineering, reported one motion that might be taken by the University as part of the comprehensive review of institutional finances. The Board stated that it supported the appointment of two Working Groups to review all aspects of the University's activities, but believed that the benefits of the exercise would be very limited unless the review formed part of a wider and more general strategy, aimed at securing the University's future and improving its status, its resources and effectiveness of its operations by every means possible. Senate decided to forward the Faculty Board's report to the two Working Parties, the Planning Committee and the Senate, for comment.

The report of the Appropriations Committee on internal funding in 1980 was endorsed, except for a proposal to set aside the sum of $40,000 for the institution of a Chair in Computing Science subject to the overall financial situation as seen in the light of the reports of the Working Party reviewing University activities. Senate asked that the sum recommended for this development be allocated to providing part-time staff.

Following a recommendation from Standing Committee of Senate, the Vice-Chancellor was requested to draw up a plan for the special allocation set out in detail all aspects of the financial problems facing the University, and a member of the University would be able to appreciate in concrete terms what the financial position was now and was likely to be over the next few years, what effect the work that had been done had and to what extent further financial restrictions would have to be imposed.

**Mr. Kelly's Visit**

Simulations and Games is a bibliography published in September by the ERIC Clearinghouse on Education and Training, Washington. The bibliography was written by Professor Donald Cruickshank, of the University of East Anglia, and Dr. Ross Telfer, of the Faculty of Education at this University.

The publication categorises 10 years' accumulation of documents to provide a key to the voluminous literature on academic games and simulations to which the ERIC data bases give access. The 70 subject categories range from administration and economics to medical education and simulation research.

The Mechanized Information Centre at the Ohio State University, where Dr. Telfer spent first term of this year on study leave, retrieved the 2,000 items in the bibliography. He brought back a computer tape of the bibliography, which will be available to students and staff through the University of Newcastle. It is hoped that the Centre will be undertaking research based upon information gained from the computer tape.

Readers of the *Australian Financial Review* will probably be familiar with The Modest Farmer. Each week this writer tells of the struggles of Farmer Fred, Eccles and Mavis against the besetting evils of inflation, Protection and Politicians. The Modest Farmer (actually the Honorable C.R. Bert Kelly) will be guest speaker at the Newcastle Area Committee of the Economics Society's annual Christmas Dinner in the Staff House on November 28 at 7.30 for 8 pm.

Mr. Kelly was from 1958 until he lost his seat through the actions already taken. While he was first elected Minister of State for B. pm. in the late 1960s he served a brief ministerial career in the portfolios of Works and Development and Infant Industry. He launched a one-man crusade against the protectionist lobby and the heavy burden of tariff protection upon the farmer and the consumer, firing off the wreckage broadsides both in the House and in his column. A collection of his articles has just been published under the title 'One More Nail'.
Recognition of Work

Mr. Hugh Floyer was Hon. Treasurer since the inception of the Staff House until 1978 and before that had acted in the same capacity for the now defunct Staff House Club. In recognition of his being elected a life member at the annual general meeting of the Staff House on November 8.

The outgoing Directors reported that the membership stood at 290 at the end of the previous financial year, but that they would like to encourage more members of staff to join.

Members were informed that the Staff House is community-owned by the members for the equipment bought when the kitchen area had been extended in 1979 at the rate of $5,215 a year over six years.

The President, Professor B. Boettcher, reported that discussions have been commenced between the Vice-Chancellor and the Committee of Management to investigate alternative arrangements for funding the building extensions following the rejection by the TEC of the inclusion of the project in the University's Building Programme.

The President also reported that the continuation of the annual grant from the University, without which the Staff House would find it difficult to survive, will be considered by one of the Review Committees set up recently by the Vice-Chancellor.

Some concern was expressed by members present that so many visitors were using the Staff House that it was sometimes difficult for members to obtain a seat, especially as many of these visitors were eligible to join the Staff House. The Committee of Management was asked to consider the introduction of a signing-on book for visitors and a certain amount of policing of people using the premises. The Committee was also asked to consider the possibility of reducing the amount of money which had to be paid immediately on joining the Staff House without necessarily reducing the annual subscriptions in subsequent years.

The following Committee of Management was elected for the next six months:

President, Professor Fred Skalicky; Vice-President, Dr. T.K. Roberts; Hon. Secretary, Dr. D.C. Finlay; Hon. Treasurer, Mr. H. Day; Committee Members, Dr. D.A. Henry, Mr. R. Mackie, Dr. R.L.B. Neame and Dr. D.A. Pownes.

On Monday December 10, the annual cricket match between the Vice-Chancellor's XI and the combined High Schools Team will be played at No.1 Oval.

On Sunday, December 16 a Newcastle Under 23 Colts Team will be having a Metropolitan Colts Team at No.1 Oval.

An exciting game for dedicated ball players is Racquet Ball, which may now be played at the Squash Courts. Racquets and balls are available for hire from the Pavilion Office.

The 1979/1980 Inter-Faculty Cricket competition was scheduled to begin November 13. Teams and captains are:

- Geography (Howard Bridgman),
- Anthropology (Richie Blanch),
- Medicine (Graham Feletti),
- English (Norman Talbot),
- Engineering (John Fryer) and
- Science (Philip Cookey) and Miscellaneous (John Hay).

The games will be played on Tuesdays from 4 pm to 7 pm.

The annual get-together for Lawn Bowlers from the University (students and members of staff) will take place at Constable Bowling Club, Maranatha, on Friday, November 23, beginning at 12.30 pm. Intending participants should contact Jock Armstrong on Extension 469 or call at Room T23, Temporary Buildings.

The newly-formed University Fishing Club is having its first outing on November 25. Members will leave Halifax Park at Nelson Bay between 6 and 6.15 am. Members of the University have been invited to join the club and attend the outing. If you wish to do so please contact Brian Williams on Extension 681.

University Badminton Club has concluded another successful year. Club teams entered in I, II and III Divisions of the Newcastle Badminton Association's winter competition and all reached the semi-finals. I and II teams lost the finals narrowly.

The NSW (Seniors) single title was won by P. Chin, a club member.

The NSW (Seniors) doubles title was won by P. Chin and J. Pritchard.

The Newcastle and Northern Districts singles title (D) was won by S. Chandra and the doubles title (AR) by D. Smith.

The Newcastle and Northern Districts singles title (B) was won by K.T. Chong.

'Sport'

A reduction in working hours was a necessary part of society's adjustment to technological improvements, Professor Bruce Williams said in a lecture at the university on October 31.

"Otherwise, unemployment caused by technological change will be very great," he said.

Professor Williams, who is Vice-Chancellor of the University of Sydney, was the Chairman of the Committee of Inquiry into Education, Training and Employment, which delivered its report on possible developments in the provision of educational facilities in Australia to the Federal Government last March.

He came to the university in response to an invitation from the Economics Society (Newcastle Area).

Referring to his Committee's prediction that spending on post-secondary education would decline from 1.85% of gross domestic product to 1.64%, Professor Williams said the key to the fall in expenditure as a percentage of GDP was the fall in the demographic effects resulting from the increase in the working population and the decrease in the education age group.

It has become well established in the past 100 years that the demand for education was income-elastic and that people were staying longer at school and more were going on to tertiary education.

"An important and related aspect of the past 100 years was that as the production potential of a community increased, the community chose to take a major part of the increase in greater material wealth and a minor part in greater leisure.

"As average income increases, working hours reduce. One of the ways this happens is by an increase in the average age of entry to the workforce. The committee saw no reason to believe that this trend will not continue," he said.

"Technological change is a creator of work, not an aboliisher. It has been responsible for creating six to seven times more jobs than it has destroyed."

"However, a reduction in working hours will be necessary - perhaps we will have a five-day week-end in about 40 years - and there will be unwelcome effects on the ages for starting work and retiring from work, holidays etc."

Professor Williams said.
Support for geographer

Dr. Don Parkes, Senior Lecturer in the Department of Geography, has been appointed as a consultant to the United Nations University. He is to work on a project about human settlement in arid environments. This project is part of an International Programme of Natural Resources Evaluation in Arid Lands, sponsored by the United Nations. The objective of the United Nations Programme for the Use and Management of Natural Resources is entirely practical: to help improve the lot of the 15 percent of the world's population who live in arid areas. According to the United Nations this segment includes the poorest and most disadvantaged people's in the world. They occupy an environment which is conservatively estimated to consume 34 percent of the earth's surface. As desertification extends its thirsty caravan, this proportion increases.

Dr. Parkes will initially concentrate his programme of research in the Alice Springs subregion. He will be particularly concerned with research into the potential that lies in the management of time use. His programme will also involve an evaluation of the demands which are put on the arid environment by the incessant use of energy-hungry technologies associated with everyday work and leisure systems. What is the pattern in time and over territory of these activity systems imported as they are from the less susceptible environment of coastal urban Australia?

Dr. Ian Burnley, of the Department of Geography at the University of New South Wales, is an Associate to Don Parkes, who as consultant to the United Nations University is responsible for producing a 50,000 word Technical Research Report, by June 30, 1981. Dr. Burnley's programme focuses on characteristics of the Social/Economic structure of the Northern Territory and their significance for resource management in a new State.

Professor J.A. Mabbutt, Department of Geography at the University of New South Wales, is a world authority on the physical environment of arid lands and is one of a team of co-ordinators for the United Nations University. His encouragement and support for Dr. Parkes' programme of work is very much appreciated. The sum of $5,000, which Don Parkes has been awarded, will help alleviate his high costs for research in Central Australia. Dr. Parkes pointed out that he was already preparing a three-year programme of research towards the publication of a book to be called, Towns Like Alice: A Human Geography of Settlements in Arid Australia.

This work was to have started following his invitation to a Guest Workshop at the CSIRO in March of this year. He was to have spent eight months with the CSIRO working with their Remote Communities Research Unit, in the Division of Building Research. For reasons beyond the control of CSIRO, the programme was cancelled, along with other CSIRO guest workshops for the 1979-80 financial year.

The United Nations Sponsorship is all the more welcome, he stated and he hoped that the University of Newcastle might be able to give some small amount of support to the programme, if only as a gesture of goodwill to the United Nations University for their support.

Dr. Parkes commented that this 'industrial city of Newcastle depended as much (perhaps more!) on the efficient and continuing population of the arid lands of Australia, from where its raw material inputs are won, as it did on its linkages with the bustling urban settlements on the east coast that other great desert, the Pacific Ocean.'

'Australia's future lies very much towards its Centre. If that Centre does become a dead heart, days 'on the beach' really will be all that is left to us!'
University film
The decision to screen Imposs­ible To Turn Back on Channel 3 is seen as an exciting break­through for this University. It is the first Newcastle Uni­versity­made film to be shown by a commercial television out­let.
Impossible To Turn Back was produced by Dr. A.F. Ashman, of the Department of Education, and directed by Mr. B.G. Jordan, of the HERSU. It deals with the care and education of mentally retarded residents at Stockton Hospital, focussing on three children and the care they are receiving, the educ­ational programming through which they will pass and their potential for independent lives away from the hospital.
Academic and socialization programs are examined. Communication and language, physio­therapy, behaviour management, self-help and independence skills are all covered.
Impossible To Turn Back aims at making people aware that the retarded are neither sick nor criminal, but individuals with real needs, desires and limitations. It argues that we should never consider turning back upon progress in our efforts to develop men and women to the peak of their potential.
The University production will be screened on Channel 3 on November 18 at 1.30 pm.

Academy's AGM
Professor J.A. Keats, attended the Annual General Meeting of the Academy of the Social Sciences in Australia early this month.
Professor Keats was elected to the Panel D Committee, the Executive Committee dealing with matters related to Psychology, Education and Social Medicine.
The programme for the meeting included a symposium on Trade Unions and the Law and a lecture on Diplomas in Mass Media Policies.
Arrangements were complet­ed for collaboration between the four Australian Academies - Science, Technological Science, Humanities and Social Science - on projects related to the pro­tection of Aboriginal sites, the social consequences of the short­age of liquid fuels and a further enq­uiry into the effects of tech­nological change.

Research Funds
The other new research projects for which grants have been approved by the Australian Research Grants Committee are:

<table>
<thead>
<tr>
<th>Researcher</th>
<th>Project Title</th>
<th>Grant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. A. Ashman and Dr. J. Kirby</td>
<td>Strategic Behaviour and Metacognition</td>
<td>$2,204</td>
</tr>
<tr>
<td>Dr. T. Gaedt</td>
<td>The Perception of Phase and Frequency Information in Visual Images</td>
<td>$8,623</td>
</tr>
<tr>
<td>Mr. D. Craig</td>
<td>Study of the Life and Works of Sir John Marjorib</td>
<td>$3,300</td>
</tr>
<tr>
<td>Dr. M. Orange</td>
<td>A Study of Charles Dickens' Relationship as Actor, Manager and Spectator with Victorian Theatre, and of its Influence on his Fiction</td>
<td>$3,400</td>
</tr>
<tr>
<td>Dr. J. Patrick</td>
<td>Phnom Unloading of Photosynthates</td>
<td>$5,200</td>
</tr>
<tr>
<td>Dr. D. Anus</td>
<td>Dosimetry of Mutagens at the Goods of Radio­philia</td>
<td>$4,000</td>
</tr>
<tr>
<td>Assoc. Prof. C. Keay and Dr. J.A. Keats</td>
<td>Investigations into New Types of Acrylic Cements for Orthopaedic Applications</td>
<td>$7,600</td>
</tr>
<tr>
<td>Dr. D. Blatt</td>
<td>Program Supervising and Computer Management Strategies</td>
<td>$7,627</td>
</tr>
<tr>
<td>Prof. A. Roberts, Mr. D. Scott and R. Parbery</td>
<td>Flow of Cohesive Bulk Solids through Open and Enclosed Conduits</td>
<td>$2,138</td>
</tr>
<tr>
<td>Prof. A. Keay and Dr. J.A. Keats</td>
<td>The Industrial Archaeology of the Newcastle Region</td>
<td>$5,500</td>
</tr>
<tr>
<td>Assoc. Prof. C. Croxton</td>
<td>Theoretical Investigation of Liquid Surface Structure and Conformational Properties of Polymers</td>
<td>$7,949</td>
</tr>
<tr>
<td>Assoc. Prof. B. Fraser</td>
<td>Propagation Studies of Hydrogenic Waves Between Spaced Stations</td>
<td>$9,164</td>
</tr>
</tbody>
</table>

...continuing projects which were supported by the ARGC are:

<table>
<thead>
<tr>
<th>Researcher</th>
<th>Project Title</th>
<th>Grant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. C.J. Aslalbe</td>
<td>A General Equilibrium Analysis of Alternative Industrial Policies</td>
<td>$625</td>
</tr>
<tr>
<td>Dr. D. Finlay and Dr. A. Ivinskis</td>
<td>Perceptual Development in Infants</td>
<td>$4,600</td>
</tr>
<tr>
<td>Dr. R. Heath</td>
<td>Spatio­Temporal Processes in Human Visual Information Processing</td>
<td>$4,700</td>
</tr>
<tr>
<td>Prof. J. Keats and Prof. M. King</td>
<td>Performance on Spatial Tasks Correlated with Oestrogen and Testosterone Levels</td>
<td>$8,600</td>
</tr>
<tr>
<td>Prof. M. King</td>
<td>The Role of Language in the Acquisition of Concepts</td>
<td>$5,500</td>
</tr>
<tr>
<td>Prof. M. King</td>
<td>Catacholamine Involvement in Adverse Behaviour and its Control</td>
<td>$6,930</td>
</tr>
<tr>
<td>Dr. J. Rockey</td>
<td>Australian Utopias</td>
<td>$2,800</td>
</tr>
<tr>
<td>Prof. C.A. Tinsley</td>
<td>Economic Consequences of Australian Patent Policies and a Review of Industrial Research and Development Grants</td>
<td>$3,500</td>
</tr>
<tr>
<td>Dr. J.W. Turner</td>
<td>The Industrial Archeology of the Newcastle Region</td>
<td>$5,500</td>
</tr>
<tr>
<td>Assoc. Prof. C. Croxton</td>
<td>Theoretical Investigation of Liquid Surface Structure and Conformational Properties of Polymers</td>
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</tr>
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</table>

Research grants offered by the National Health and Medical Research Council:

<table>
<thead>
<tr>
<th>Researcher</th>
<th>Project Title</th>
<th>Grant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. W.D. Mallis</td>
<td>Construction of Combinatorial Arrays and Block Design</td>
<td>$5,100</td>
</tr>
<tr>
<td>Dr. S. Angus</td>
<td>Parental Age and Heritability in Uroepithelial Malformations</td>
<td>$400</td>
</tr>
<tr>
<td>Assoc. Prof. R.C. Jones</td>
<td>Determination of Homologous Regions in the Epididymis (Mesonephric Duct) of Various Vertebrates</td>
<td>$6,930</td>
</tr>
<tr>
<td>Dr. J. Turner</td>
<td>The Stability of the Ecotone Between Two Rainforest Types</td>
<td>$3,000</td>
</tr>
<tr>
<td>Dr. R. Murdoch and Dr. D. Kay</td>
<td>Uterine Alkaline Phosphatase and Reproduction in Mice</td>
<td>$6,900</td>
</tr>
<tr>
<td>Dr. T. Roberts</td>
<td>An Immunological Approach to the Study of Sperm: Particularly Sperm­Semen Plasma Interactions</td>
<td>$3,300</td>
</tr>
<tr>
<td>Dr. N. Rose</td>
<td>Cholesterol Enzyme Segregation in Cells and Isolated Protoplasts</td>
<td>$6,000</td>
</tr>
<tr>
<td>Dr. R.J. Loughran</td>
<td>Sediment Erosion, Storage and Transport from a Small, Steep Catchment</td>
<td>$3,639</td>
</tr>
<tr>
<td>Dr. P.K. Seccombe</td>
<td>The Potential for Photogrammetric Measurement in Cairns with Simple “Non­Metric” Cameras</td>
<td>$5,100</td>
</tr>
<tr>
<td>Dr. J.G. Fryer, Dr. A.M. Mitchell and Mr. M.P. Firth</td>
<td>Rational Road Pavement Design with Marginal Metals</td>
<td>$3,000</td>
</tr>
<tr>
<td>Assoc. Prof. W.A. Gates</td>
<td>Thermo­dynamic Properties of Transition Metal Hydrides</td>
<td>$9,700</td>
</tr>
<tr>
<td>Dr. K. Saluja</td>
<td>Fault Diagnosis in Gunn Logic Networks</td>
<td>$600</td>
</tr>
</tbody>
</table>

Jane McGuinness, of the Records Section of the Personnel Department, is receiving congratulations from her friends following the announcement that Jane and Craig Flett, of Jesmond, are engaged.
Advertisements

WANTED: A LOVING HOME for an adorable kitten. Please telephone Extension 692.

FOR RENT

FOR SALE
DATSUN 120Y GL SEDAN, October 1977. White with bone vinyl roof, radio, clock. Excellent condition except for dent in left-hand passenger door. 30,000 km only. $3,850 or nearest offer. Please telephone 48 963 after 5 pm.

WEEKENDER (hardplank), one hour from Newcastle-Alley River Frontage, 67 and a half acres, undulating with trees and dace. $24,000. Please telephone 23 563.

P.S.A.

The annual general meeting of the University Sub-division of the Public Service Association will be held in Lecture Theatre 801 on December 5 at 12.30 pm. The business of the meeting will be, among other things, to consider the Chairman’s annual report and elect a Chairman, Secretary, Assistant Secretary and Committee for 1980.

When nominations for election to the executive positions closed, the members of the P.S.A. had been proposed:

- Chairman, David Kay; Secretary, Brian Kellhol; Assistant Secretary, Giles Martin; Allan Harcombe; Delegates to Government Agencies Division Council, D. Kay, B. Kellhol; and A. Harcombe; Delegates to Annual Conference, nil;
- Delegates to Central Council, G. Martin; Committee, Mary Kabbitt, Robert Swetnam, Neal Koops, G. Martin, Wayne Rigney, Peter Muller, Gary Jones, Joe Drzyga, A. Hatton, Robert Mudge, Ross Gleghorn, Kay Jackson, Martin Doms, Laurie Henderson and John Armstrong.

Recovery Ball

Don’t miss out on the event of the year! Cast off those examination blues (or whatever) and come along to the Union on Monday, 26th September at 8 p.m. Costume - “The Bare Minimum”.


Tickets available from the Union Agency - $5 students $6 guests.

Correction

The last issue of University News included Dr M.J. Hensley among staff resignations and stated that Ms K. Leonard had taken up her appointment to the staff. In fact, Dr Hensley has begun duties (as Senior Lecturer in Medicine) and Ms Leonard resigned from the staff in the Department of Education.

Printed in the Secretary’s Division, The University of Newcastle for The Editor, The Secretary, The University of Newcastle. N.S.W. 1980.