New prizes
The Council has agreed to prizes being set up in the names of two retired staff members and the Newcastle-Ube Sister City Committee.

The Tony Herzog Award is supported by a fund of $500 established from private donations and departmental funds, and represents the wish of the present members of the Department of Civil Engineering to recognise the contribution of Assoc. Professor Tony Herzog, who retired in February after spending 29 years in the department.

The award is to be made occasionally to an undergraduate student in the Department of Civil Engineering and Surveying who has submitted a final year project report of outstanding merit.

The Newcastle Sister City Committee offered the Newcastle-Ube Prize to be awarded annually to the student who achieves the best performance, if of sufficient merit, in Japanese IJA. Mr. S.C. Morton, a Senior Lecturer in the Department of Architecture, who retired from the University on March 2 donated to the University the sum of $500 to establish a prize to be awarded annually to the graduating student who achieves the highest aggregate of marks in the technology subjects of the Bachelor of Science (Architecture) and Bachelor of Architecture degree courses.

Graduation 1981
Graduation ceremonies take place in the University's calendar. This year, Convocation will make Graduation happen with more colour and excitement than in the past.

Convocation offered all faculties financial support if they arranged morning tea or drinks for graduates and their families on Graduation Day. In addition, the Toronto Brass Band was invited to play at the conclusion of the three graduation ceremonies.

Degrees will be conferred upon, and diplomas awarded to, approximately 700 graduates at the ceremonies.

The first ceremony will be held on Saturday, May 2, when degrees will be presented in the Faculty of Arts.

The second ceremony, when degrees will be presented in the Faculties of Architecture, Engineering and Mathematics, will be held on Saturday, May 9, at 9.15 am. These Faculties will not be able to avail themselves of Convocation's offer because the ceremony commences very early. However, Convocation has asked the Toronto Brass Band to move to the courtyard of the Union and play during the morning tea in the Union following the graduation ceremony.

The final graduation ceremony will be held on May 9 at 11.30 am. Degrees will be conferred in the Faculties of Economics and Commerce, Education and Science. Students who graduate in these Faculties will all be entertained beforehand. The Faculty of Economics and Commerce will hold a function on the lawn between the Mathematics Building and the Behavioural Sciences Building. After partaking of refreshments, graduates, their families and members of staff will be welcomed by the Dean (Professor M.O. Jager) and the Warden of Convocation (Mr. Philip Miller). After the function a procession, led by the Dean and the Sub-Dean, will move to the Great Hall.

The Faculty of Science gathering in the Biological Sciences Building will take a different form - morning champagne and orange juice. The Dean of the Faculty (Professor B. Boettcher) will congratulate the graduates, in particular those to have University Medals conferred upon them, and later a procession of graduates and academics will move to the Great Hall.

The Faculty of Education is to conduct a separate function for those who will have B.Ed. Stud. and M.Ed. Stud. degrees conferred upon them. These graduates will be the Faculty's guests for morning tea in the Curriculum Resources and Research Centre.

A Graduation Dinner for new Engineering graduates will be held in the Staff House on May 9 beginning at 7 pm.

TEAS Officer on campus
Mrs. Cecilia Mukherjee began duty as the TEAS representative on the campus on April 27. She succeeded Mrs. Jan Darcy and can be interviewed in Room 129 in the Temporary Buildings.

The Student Administration Office can indicate when she is available in the office.

The Toronto Brass Band, a musical touch added to Graduation ceremonies this year by Convocation.
Dear Sir,

Below is a letter which can be put into your publication. I hope you find it suitable.

SAVE THE COURTYARD
"A thing of beauty is a joy forever."

The higher joys of life are given a greater value by us than the lesser joys. The value given to quenching thirst is less than the value given to satisfaction from the aesthetic environment (providing the aesthetic quality is appreciated by us). So, an aesthetically pleasing environment is greatly valued by aesthetically aware people and according to this fact the aesthetic qualities of the Wistaria Courtyard are valued by the students.

University students (having a high level of intelligence) can appreciate an aesthetically pleasing environment and so they need aesthetic satisfaction. This is evidenced by the successful sale to students of fine art prints that is run in the Union each year. Students are aesthetically minded people. The courtyard should be saved as it is of value to us.

The psychologist, A. Maslow says, "... and here at least convinced myself that in some individuals there is a truly basic aesthetic need. They get sick (in special ways) from ugliness, and are cured by beautiful surroundings; they grope actively, and their cravings can be satisfied only by beauty. It is seen almost universally in healthy children. Some evidence of such an impulse is found in every culture and in every age as far back as the caves.

Much overlapping with conative and cognitive needs makes it impossible to separate them sharply. The needs for order, for symmetry, for closure, for completion of the act, for system, and for structure may be indiscriminately assigned to either conative, conative, or aesthetic needs."

With the Wistaria Courtyard there is a unique sense of "closure" for the person in the courtyard. There is also a sensitive "order" with the three courtyards of the building and this would be destroyed if the courtyard was built-out. It is possible for the new bar to be built in another area of the Union building and so save the Wistaria Courtyard.

Sincerely,

D.D. Morris
University Planner.
APRIL COUNCIL

The Council decided to direct the attention of the Commonwealth Minister for Education to its concern at the adverse effect the re-introduction of tuition fees would have on the University. It urged the Government, in the event of tuition fees being re-introduced, to take the steps necessary to protect the University and students with limited means from these adverse effects.

The special meeting of the Council held on March 6 to consider the recommendations of the two Working Groups that had reviewed the University Finances had been adjourned. The Council concluded its deliberations on the recommendations on April 24. A full report of the Council's decisions will be included in the next University News.

The construction of a toilet for the disabled in the Great Hall is scheduled to commence in early May for completion during June. The work will have to be carried out intermittently as it will disrupt activities in the Great Hall.

It is hoped that the work on the construction of a toilet for the disabled in the Union can be carried out during the same period.

After the Building and Grounds Committee reported that the cost of renovating the Foster and Andrews pipe organ and transferring it to the Great Hall would be more than $80,000 to $100,000, Council decided to advise the owner that the University was no longer interested in buying the instrument.

It was pointed out to the Council that the idea of installing a pipe organ in the Great Hall should not be forgotten. The University Planner was asked by the Council to enquire about consultants who could assess structural changes, acoustics, etc., related to the installation of an organ.

Council was told by the Finance and Personnel Committee that New South Wales universities faced particular problems in transferring to the proposed Superannuation Scheme for Australian universities because of their long-standing involvement with the State Superannuation Fund. At this stage, the universities had made no approach to the State Government. It had been suggested, the Committee said, that SSAU seemed to be less-favourable than the two schemes currently in force in the University.

Union representatives would be seeking actuarial advice through the Public Service Association of New South Wales for members of the non-academic staff in view of their obvious interest in this important matter. It was probable that Professor Beacham, Chairman of the Drafting Committee of SSAU, would visit the University and that the result of discussions with him should be awaited.

The Council appointed Mrs. Mary Rabbitt and Mr. Murray Falconer as its two nominees on the Union Board of Management to take office after the Union's annual general meeting on May 5.

Mr. Maurie Edmonds, who had served as a Council nominee on the Board for a number of years and was unavailable for re-appointment, was thanked by Council for his dedicated service to the Union, which included some years as Treasurer.

Mr. Michael Connolly was appointed the Council's nominee on the Sports Union for 1981.

Thank you,
The Tweedies

Resulting from Professor Alan Tweedie's retirement last December, the University has received two ceremonial lecterns for use in the Great Hall. Professor Alan and Mrs. Tweedie officially presented the lecterns to the University on April 24. The small presentation ceremony, held in the Great Hall, was attended by members of Council.

Mrs. Tweedie said that the lecterns would form a continuing link between the University and her husband and her and she asked the Chancellor to accept them as a measure of their great appreciation of the University.

Professor Tweedie thanked the University Planner (Mr. D. Morris) for discovering a wood craftsman to design and make the lecterns.

Australian timber had been used, of course, and the man had done a wonderful job.

"Etta and I take great delight", Professor Tweedie said, "in thinking that we will have a part in Graduation Day ceremonies - very happy and important occasions as far as students are concerned".

Professor A.D. Tweedie and Mrs. Tweedie donated a sum of money to the University prior to his retirement to provide the lecterns. They were constructed by Mr. Leon Sadubin, of Sydney, using Tasmanian blackwood.

The larger of the two lecterns (the Chancellor's lectern) has a feature panel of Tasmanian blackwood fitted between the stack bonded uprights. A smaller plaque will be fixed to the back of this panel recording the donors.

The Deans' lectern is a little smaller and without the feature panel. Both lecterns are permanently fitted with microphones and provision has been made at the front of the stage for connecting these to the voice amplification system.

The Chancellor, Mrs. Etta Tweedie and Professor Alan Tweedie pictured with the ceremonial lecterns.
HIGHER DEGREE REPORT

In structured clinical interviews, thoughts and feelings about death were obtained from 104 primary and secondary school children comprising bereaved and non-bereaved groups in two age levels and two socio-economic classes.

Level of attainment in both the cognitive (thinking) and the affective (feeling) aspects of the concept of death was found to be a function of age, with adolescent children (13-16 years) obtaining higher levels in each than latency children (10-12 years).

Bereavement was a significant factor in the level of attainment in both the cognitive and affective aspects of the concept of death in adolescence but not in latency. Socio-economic background of the family was a factor operative in the level of attainment of aspects of the concept of death in adolescence only. Adolescents from the business/professional class had acquired higher levels of both cognitive and affective concept components than had adolescents from the working class. Latency children's concepts were unrelated to bereavement and socio-economic status.

Age differences were also apparent in children's emotional reasoning. Children responded predominantly with sadness, while adolescents responded predominantly with an accommodation to the inevitability of the natural process.

Bereavement was a factor in adolescent emotionality. Bereaved adolescents expressed more sadness and accommodation, and less fear of personal death than non-bereaved adolescents. Socio-economic status was also a variable operative in adolescent emotionality. Working class children expressed more sadness but less accommodation and less distancing than business/professional children.

However, differential results were obtained for experimental sub-groups. Cognitive and affective components of the concept of death were related in three of the four non-bereaved groups, but were unrelated in three of the four bereaved groups.

A highly significant positive relationship between emotional regard of death and school performance was apparent in adolescents from the business/professional class, both bereaved and non-bereaved.

The findings regarding each of the major groups based on bereavement, age, and socio-economic family background of the children were derived from sample sizes of 52. Those regarding the bereaved groups, however, were obtained from sample sizes of 13. The conclusions drawn from the latter may be less general than those from the former. Nevertheless, the findings and the inferences which may be drawn from them have important implications for all those concerned with children in regard to death.

There are two different sets of circumstances under which it is both useful and necessary to talk about death with children. Actual bereavement or contact with the death of another person is one such set of circumstances. Another set arises in the many and varied reasons for curiosity about death, such as hearing others talk about it, seeing it on television programmes, and so on. The crucial difference between the two sets of circumstances is the emotional state of the adults and the children concerned. A knowledge of children's thoughts and feelings about death at various stages of their development would permit appropriate handling of the matter with either set of circumstances.

Mikado season

University staff members and students are included in the cast of The Mikado to be presented at the Hunter Theatre, The Junction, for a season of six evening and two matinee performances between May 27 and June 6.

The Mikado, the 1981 production of Newcastle Gilbert and Sullivan Players, will be the last show to be staged at the Hunter Theatre.

Prices for The Mikado are: adults - $2.50, children and pensioners - $2.25, students - $3. Preferential bookings can be made now by telephoning 57 1927. Bookings will open at the Civic Theatre on May 13.

INTERNATIONAL NEWS

Listed below are requests and items of international news. If you would like further information, contact the Secretary, AVCC, P.O. Box 1142, Canberra City, ACT, 2601; or write direct as indicated:

Dr. Kramol Tongdhamachart, Professor and Dean of the Faculty of Political Science, Chulalongkorn University, Bangkok, recently toured Australia as the inaugural lecturer in the new Asean/Australia Lecture Series. He proposes to establish a course in Australian politics at Chulalongkorn University to commence in June 1981. He would welcome visits from Australian academic staff when they are in Bangkok and would wish to invite them to lecture on Australian politics. Correspond direct with Dr. Tongdhamachart, Chulalongkorn University, Phayathai Road, Bangkok 5.

The Deputy Rector, University of the Bosphorus, Turkey, has advised that the University would welcome visits from Australian academic staff on study leave abroad. The University is strong in subjects such as Ottoman, Balkan, and Middle East History. Correspond direct with the Deputy Rector, Bogazici University, P.O. 2, Bebek, Istanbul, Turkey.
Employer visit

On July 16, 1981, two Senior Engineers of the Production Department, Esso Australia Ltd., will visit the University, with a view to recruiting final-year undergraduates or postgraduate students to start employment in 1982. Each year Esso's Production Department recruits graduates from all branches of engineering to work in either Sydney or Sale, Victoria. In this department, the graduate becomes involved with a variety of technical problems associated with exploration for, and production of, oil and gas. Basically, engineers in Production are involved in:

- The drilling and completion of oil and gas wells, the design and operating assistance of major gas and crude processing facilities, the design and construction of all facilities required to move the products to market, the development of plans and methods to recover the maximum of oil and gas from each reservoir and evaluation of new techniques and opportunities to improve producing operations.

- The training on Esso's operations in Bass Strait will commence in Lecture Theatre EFD2 at 9.5 am and run for about 40 minutes. All interested (i.e. Engineers and others) are invited to attend.

- Engineering students interested in employment with Esso Australia Ltd. are invited to call at the Careers and Student Employment Office and make an appointment to talk with the two representatives.

New Book

Mr Robert Mackie, Lecturer in Education, is the editor of Literacy and Revolution: The Pedagogy of Paulo Freire, which was launched at a function in Sydney on April 24.

A collection of essays, with an introduction by Mr Mackie, Literacy and Revolution looks at all aspects of Paul Freire's work into literacy. Freire is a native of Brazil whose experiences as a teacher of the poor in the slums of Recife, a town on the Atlantic seaboard, helped him to develop an effective teaching method for adult illiterates. The essays collected by Mr Mackie provide an assessment of Freire's work and ideas from their intellectual and political origins to their implications as part of a revolutionary strategy.

The book sells for $10.50; copies are held by the University Cooperative Bookshop.

FACULTY OF MEDICINE NEWS

WHO TASK FORCE MEETING

A newly-established Task Force of the World Health Organisation's network of innovative medical schools will hold its first meeting at Newcastle University in October.

Professor D.C. Maddison, Dean of the Faculty of Medicine, attended a meeting of the WHO's network of innovative medical schools at Bellagio, Lake Como, from March 30 to April 3. Professor Maddison was elected to the three-man Policy Committee of the network.

The network established the Task Force to explore the most effective internal organisation for a faculty of medicine, if it is to deliver problem-based, community-oriented education programmes; and the most effective forms of organisation which will link the "health manpower" and "health service" sectors to the mutual advantage of both parties.

The meeting of the Task Force in Newcastle will use funds provided by the network itself and from the Australian Development Assistance Bureau.

This will bring to the University visitors from Japan, the Philippines, New Zealand, Papua New Guinea, Malaysia, Indonesia and Thailand, as well as one or two international consultants and at least one participant from elsewhere in Australia.

NH & MRC SUPPORT

Most noteworthy has been the Faculty's success with the National Health and Medical Research Council (NH & MRC), the major source of external funding for Medical Schools in Australia. Last year, 27 applications were submitted, and 14 applications were funded to a total value of $460,000, including $237,000 for 13 new projects. This compares with seven successful awards worth $282,000, for applications submitted in 1979. With support for approximately 50 of our applications, Newcastle ranks third out of ten in the success rate for universities receiving NH & MRC support. There are now more than 20 NH & MRC supported project grants held by members of the Faculty of Medicine at Newcastle.

NEW PROFESSOR ARRIVES

Professor R. Sanson-Fisher took up his appointment as Professor of Behavioural Science in Relations to Medicine on April 6.

Chief Judge's years in Maitland

Maitland District Historical Society is to offer a lecture on The Maitland Years of Sir Samuel Griffith, First Chief Judge of Australia on May 13 at 8 p.m.

The second Hunter Annual Lecture in Contemporary History will be presented by Professor Roger Joyce, of La Trobe University, in the Cultural Centre, High Street, Maitland. During Samuel Griffiths' several years in Maitland his father was minister of the Congregational Church and Samuel attended local schools.
Study Leave Report

Mr John Stowell, Senior Lecturer in German, returned in February from 8 months overseas under the Outside Studies Programme. He gave the News the following account of his research.

About 25 years ago, I first heard the name of Walter Spies (pronounced to rhyme with Greece), a German painter, musician, ethno-musicologist, amateur anthropologist, student of linguistics, architect, film maker and friend of the Balinese. In 1965, the Dutch patron of the arts and admirer of Spies, Mr. Hans Rhodius, had published a voluminous collection of the painter's letters, together with memoirs of him by the rich and famous who had known him here and elsewhere, a connecting text filling in biographical details and a discussion of his work as a painter. This was published in German, the language of most of the letters, and has now become quite rare. Judging from the quality of the letters and the people Spies had known, I felt that here was an interesting field of enquiry which should be more readily accessible to English readers, so I resolved to contact Rhodius to find out why his plans for an English translation had not come to fruition.

We met on the bale of the house Spies had built at Ubud for Barbara Hutton, the only original building remaining of the complex at Campuan which was the painter's home for twelve years. Now a hotel, it is not possible to see the Balinese style, the garden much as laid out by its first owner. Here I discovered that there were considerable plans underway for a Spies year, with a documentary on his life to be produced by Dutch television, an exhibition of his works together with examples of Balinese art, and a memorial of Spies, the more fascinating subject became, and by August it was agreed that we would collaborate in producing a major study of Spies in English, paying due attention to his contribution to the preservation and development of the arts in Bali, including the help given to such scholars as Margaret Mead and her husband, Gregory Bateson, and others who followed them in the field. This work will take at least another couple of years, as there is documentation so far untapped in Dutch, American and perhaps Indonesian archives; besides, the occasion of the exhibition should be a brief introductory account be of interest, so together with John Darling, Australian poet, film maker and student of Bali, who had come to Holland to look after the Balinese side of the exhibition, we put together a volume entitled Walter Spies and Balinese art which traces the outlines of the artist's life from his childhood in Moscow, through school days in Dresden, internment during the First World War in the Urals, theatre-designing for Bakst in Moscow in 1918, years of artistic development in Dresden and Berlin after the war, with such friends as Georg Gross, Oskar Kokoschka and Friedrich Murnau, the film director, followed by three years in Java and Bali, where he first devoted himself to thorough mastery of the indigenous arts forms and languages and then contributed so much to Others by example and encouragement. He gave unstinting help and advice, both to the local population, to perceptive colonial administrators, many of whom were scholars of note, and to visitors like Baron von Plessen who made the classic film on Bali, Insel der Damokles, as artistic director, or Vicki Baum whose best novel, A Tale of Bali (Liebe und Tod auf Bali), bears its tribute to his advice; - the list goes on.

The second part of the book is an introduction to the pictorial arts of Bali in this century, concentrating on the thirties, when Spies, Bonnet, the Cokorda Gede Agung Sukawati and I Gusti Nyoman Lempad formed the association of the Pita Maha to guide and market the works of its members, even then beginning to feel the shocks of modern tourism. The power of the tourist dollar and the general ignorance of those who spread it about has grown enormously in the last ten years. Spies thought the only hope for Bali to preserve its traditions in a rapidly changing world lay in the education of both visitors and Balinese alike. We hope our book makes a contribution to this process. It is now available in local bookshops.

While helping with arrangements for the exhibition and preparing the book for publication, I talked to a number of Dutchmen, former members of the colonial administration, called on distinguished owners of Spies paintings and on the oc with Spies he exhibition met various members of Spies's family. Valuable contacts were also made in New York, Princeton and Harvard and at ucla, Los Angeles. Chasing up other links with the worlds of art and the film in Germany of the early twenties took weeks of preparation and travel. Visits to theatres,
Why destroy the Wistaria Court?
This is the question Architecture II and III students asked the Board of Management of the Union. The students protested against the scheme of Club and Hotel Interiors Pty. Ltd. for the relocation and enlargement of the bar in the Union. The scheme transfers the bar to where the Wistaria Court now is.

The Architecture students' side of the issue is that the character of the Union itself is at stake should "such superficial alterations be wrought on a building with such outstanding architectural merit."

The matter was investigated by the students as a project for their Social Sciences Course after it was raised as a point of view by acting Director Dr John Rockey. The students have enclosed with their protest plans of an alternative scheme, which, they say, at first sight avoids difficulties such as the destruction of the Wistaria Court and is simpler, less disruptive and, possibly, less expensive to implement.

According to the students, the Club and Hotel Interiors Pty. Ltd. scheme is "wholly destructive of the delightful and restful 'Wistaria Court' that plays such an important part in the variety and sequence of open courts within the Union."

It would appear, they state, that in terms of building alterations, the scheme is also unnecessarily expensive for what it provides. The alternative scheme would achieve more usable and convenient space while preserving the integrity of the building and retaining the unique "Wistaria Court."

The Club and Hotel Interiors Pty. Ltd. scheme has certain undesirable planning features, including:
- It severely limits the access of light and air to the Dining Room and fast foods area.
- Places an extensive bar facility very close to toilet areas, thereby restricting public access.
- It significantly increases the bar facilities without increasing the common room accommodation.
- The addition of such a large bar serving area in close proximity to the art galleries of the Union is likely to disrupt the even flow of pedestrian traffic.

One alternative plan for the Common Room and Bar extensions, suggested by the Second and Third Year Architecture students, is illustrated below.

The Council was told on April 24 that concern at the loss of the Wistaria Court and the desirability of all members of the Union being advised of this fact had been expressed at a meeting of the Buildings and Grounds Committee.

The Buildings and Grounds Committee had examined the sketch plans and felt that it had insufficient information to enable a recommendation to be made to the Council.

The Board of Management held a special meeting on April 23 to consider the views of members of the Union on the scheme for extending the bar.

The Secretary/Manager (Mr. Barwick) said the Finance Committee had previously made a request for additional factors to be investigated as part of the feasibility study.

The rumour that the Commonwealth Government would reintroduce University fees had been noted and the Committee had sought information on the extent to which membership of the Union could fall as a result. Moreover, it asked for an assessment to be made of the Board's commitment to maintenance and replacement of equipment over the next three years.

Mr. Barwick said the Board had not made a decision on April 23. It would meet again on April 28 and the bar scheme would be an item to be discussed.

Outlook 1981/82

About 440 copies of Graduate Outlook 1981/82 have been received by the University of Newcastle. The directory is an invaluable source of information for graduates seeking employment for the first time.

The current edition has been expanded and lists more than 1,000 employers interested in hearing from graduates wishing to enter the workforce during the 1981/82 recruiting period.

As the number of copies received this year has been reduced, less copies have been distributed to Departments etc. in the University. Some copies are available for final year students at the Careers and Student Employment Office - Room T26.
From the Philippines

On April 22 four senior administrators from universities in the Philippines visited the University of Newcastle as part of a three-week tour of Australia organised by the Australian Development Assistance Bureau.

Discussions were held with the Deputy Chairman of the Senate, the Department of Education and Science, the Deputy Dean of Medicine and senior administrators and visits made to various parts of the University.

In addition to gaining a better understanding of the Australian university system, the visitors wished to learn of opportunities for students from Philippine universities to study in Australia and for two-way academic exchanges under the Australian-Asian Universities Co-operation Scheme.

The four visitors, Dr. R. C. Portugal (Vice-President, University of the Philippines), Dr. Q. D. Doromal (President, Siliman University), Dr. A. Samson (Executive Vice-President, Ateneo de Manila University) and Dr. A. Macawaris (Deputy Vice-Chancellor, Mindanao State University) were accompanied by Mrs. Jenkins of the Sydney ADAB Office.

Science goes to Brisbane

The 51st ANZAAS Congress will be held at the University of Queensland between May 11 and 15.

The Chairman of the Organising Committee (Mr. Allan Morgan) said: "The Congress will be attended by about 3,000 delegates and is the major Australian science conference this year. "It is a time when national and international attention is focused on where science has achieved over the past 12 months and what it might achieve in the future."

"This year the Brisbane Congress has special relevance to the public because it is concerned with energy and equity, a subject which concerns every Australian," Mr. Morgan said. "The critical question is how we should tap our energy resources and distribute them in an equitable way."

Congress speakers include the Leader of the Opposition in Papua-New Guinea, Mr. Michael Somare; anthropologist, Professor Laura Nader (sister of the consumer rights advocate, Mr. Ralph Nader), of the University of California; the Chairman of the Australian Law Reform Commission, Mr. Justice McElduff, food scientist and nutritionist, Professor D. M. Hegsted, of the United States Department of Agriculture, Washington D.C., and former Deputy Prime Minister, Dr. Jim Cairns.

Understanding the Boom

A Department of Community Programmes seminar on May 1 at the University attempts to provide an understanding of the current massive developments in the Hunter Valley.

Titled Perspectives on Hunter Industrial Developments, the seminar will be held in Room 215 in the Commerce Building from 10 a.m. to 5 p.m.

The discussion leaders include Professor K. W. Rogers of the Geography Department, Professor M. P. Carter, Head of the Sociology Department, Mr. Brian Cogan, Public Relations Consultant, Mr. Trevor Hazel, Social Worker, Department of Social Security, Ms Sonja Juvik, Graduate Student, Research School of Pacific Studies, ANU and Professor E. Woolington, Geography Department, U.N.S.W. (Duntroon).

University Choir

The University Choir, in its first concert for 1981, is combining with the Goulburn Consort of Voices and the Athurst Chamber Orchestra to present:

The Maria Theresa Mass by Haydn (1799) and Dona Nobis Pacem by Vaughan Williams (1936).

The works will feature soloists:

Jennifer Evans (Soprano)
Kathleen O'Brien (Contralto)
Alan Mullins (Tenor) and
Peter Brock (Bass).

The concert will be held in Christ Church Cathedral on Sunday, May 3.

Tickets are available at the Civic Theatre, the University Bank Agency (Union) and at the door.

Prices are $4 Adults and $2 Concession (+30c booking fee at Bank Agency).

Guest speaker

Professor Alan Oates, Associate Professor in Metallurgy, has been chosen as a speaker at the Gordon Research Conferences to be held in New Hampshire, in the United States, in July.

The conferences are held at eight colleges and academies in New Hampshire between June 8 and August 10 and were initiated in the late 1970's by Dr. Neil E. Gordon who aimed at establishing good direct communications between scientists by holding meetings in small groups at secluded locations. The conferences are organised by a Council, a Board of Trustees and a Director.

Professor Oates will be attending the conference on Metal Hydrides at Tilton School, New Hampshire, from July 20 to 24 and has been invited to be discussion leader for a session of the conference on the elastic distortion caused by hydrogen in ordered and disordered hydride phases.

Coal symposium

Coal resources in the Hunter Valley is the principal theme of the Fifteenth Newcastle Symposium organised by the Department of Geology for the weekend of May 10-11. Fifteen scientific papers on a variety of topics related to the geology of the Sydney Basin, its surrounding area and its coal resources, will be given during the symposium.

Many will deal with the environment of coal formation prevailing in the region during the Triassic and Permo-Triassic geological periods, when most of the rocks of the Sydney Basin were formed, 200 to 280 million years ago.

Using the results of recent foundation surveys for buildings in Newcastle's central business district, some of the city's early coal mining history will be documented in a paper to be given by Assoc. Professor Konrad Moelle, of the University of Newcastle, and David Brown, of the University of Sydney.

Members of the Amateur Geological Society of the Hunter Valley are to take an active part in the proceedings, with a report on the structure and petrology of Mount Yengo in Wollemi National Park.

Mr. G. Rose, Assistant Under Secretary, Coal Strategy, Department of Mineral Resources, New South Wales, is to deliver the keynote address, entitled, Future Prospects for Coal Resource Development in New South Wales.

Discussion sessions on the Saturday afternoon will look at aspects of coal petrology and the application of geology to open cut mining.

Speakers from local research organisations and the coal industry will be the principal contributors to these workshops.

A field excursion on the afternoon of May 1, led by Assoc. Professor Claus Diessel will inspect a large exploration trench which has been cut to intersect and appraise several coal seams of the proposed Saxonvale Colliery at Broke.

Assoc. Professor Slade Warne, of the Department of Geology, is the organiser of the symposium.
Disadvantages of Valley Boom

The BHP Company Limited is recruiting skilled workers overseas because it knows that many of their tradesmen will resign and flock "up the Valley" when new development projects are proceeding.

Rev. Michael Nelson, a member of the Anglican Social Questions Committee and a graduate of the University, argued this in a forum on the projected aluminium smelters in the United States, which was held by the SRC in Adelaide. He argued that the aluminium smelter proposed to be established at Lochinvar in the United States would be very similar to the modern smelter at Mount Holly in the United States and should be an industrial showcase. A public enquiry into the proposal would be held in May at Maitland and the companies planning the project hoped to receive government approval in June.

Mr. Miller outlined in detail the role of the aluminium smelter in the establishment and operation of the aluminium smelters. His industry needed graduates for immediate and long-term duties. Primarily engineers, they would basically be involved in construction and production problems and a lot of training would be done at the plant in the United States.

"It will be the graduates' successful application to solving problems, rather than their degrees, that will carry them to the top of the tree." No thorough examination has been conducted to justify the aluminium projects economically, Dr. Howard Dick, Lecturer in Economics, stated at the forum.

"No doubt the companies themselves will make money, but will the local community find the development projects beneficial?"

Dr. Dick said that arising from the state government's electricity pricing policy the aluminium companies would be roughly subsidised twice what they would be paying in wages. Moreover, the local council would receive about $30,000 a year in rates compared with the $2 million a year which the council in Portland in Victoria had been able to levy on an aluminium company there.

"The Government cannot afford to ignore demands for a plan showing where the projects fit in with other developments in the Hunter Valley," Dr. Dick said. "Nowhere else in Australia is an investment boom going on like the $7 million worth of development that is occurring in the Hunter Valley."

Mr. B.V. Florence, Dr. Dick also mentioned housing shortages and increased pollution as other urgent problems which had to be taken into account when considering the effects of the proposed aluminium smelters on the Hunter Valley.

Environmental issues

Throughout his academic career, Dr. Brian Martin, who is visiting the University from the Australian National University, has sought to politicise environmental issues.

As well as Nuclear Knights, which examines Sir Philip Baxter's and Sir Ernest Titterton's support for nuclear power, articles and reports in widely differing areas have been produced by Dr. Martin. A Research Assistant in the Department of Applied Mathematics at the Australian National University, Dr. Martin has made a study of cases of suppression of academics involved in environmental research in Australia and New Zealand.

Late last year, he received front page coverage in the Canberra Times in connection with the dismissal of Dr. John Coulter and the closure of the environmental mutagens testing units at the Institute of Medical and Veterinary Science in Adelaide.

Dr. Martin is a native of the United States, but is now a naturalised Australian.

No thorough examination had been conducted to justify the aluminium projects economically, Dr. Howard Dick, Lecturer in Economics, stated at the forum.

"No doubt the companies themselves will make money, but will the local community find the development projects beneficial?"

Dr. Dick said that arising from the state government's electricity pricing policy the aluminium companies would be roughly subsidised twice what they would be paying in wages. Moreover, the local council would receive about $30,000 a year in rates compared with the $2 million a year which the council in Portland in Victoria had been able to levy on an aluminium company there.

"The Government cannot afford to ignore demands for a plan showing where the projects fit in with other developments in the Hunter Valley," Dr. Dick said. "No­where else in Australia is an investment boom going on like the $7 million worth of development that is occurring in the Hunter Valley."

Mr. B.V. Florence, Dr. Dick also mentioned housing shortages and increased pollution as other urgent problems which had to be taken into account when considering the effects of the proposed aluminium smelters on the Hunter Valley.

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STAFF Appointments

Ms. J.R. Decrevel, Tutor, Department of Modern Languages.

Mr. B.R. Elkin, Computer Operator, Computing Centre.

Mr. David W. Firman, Computer Programmer, Computing Centre.

Miss L. Manwaring, Technical Officer, Faculty of Medicine.

Dr. C. D. V. Florey, Visiting Lecturer, Faculty of Medicine.

Mr. R. Peters, Tutor, Department of Psychology.

Resignations

Dr. I.S. Reid, Fellow in Paediatrics, Faculty of Medicine.

Mrs. L.S. Davies, Office Assistant/Typist, Faculty of Medicine.

Mrs. M.A. O'Donnell, Stenographer, Faculty of Medicine.

Mr. G.T. Franklin, Technical Officer, for the Departments of Architecture, Linguistics and Modern Languages.

Dr. B.J. Springthorpe, Fellow in Paediatrics, Faculty of Medicine.
SPORT

For the second time since 1965, the Students’ Golf Team won the Vice-Chancellor’s Trophy. The match v. the Staff was played on April 10 at Steelworks Golf Club and, despite the threatening weather, some sparkling golf was played. Paul Moriarty had the best score of the day - 38 points, off a 5 handicap. John Serhan, with three birdies, contributed 36 points to the total. Assoc. Professor Greg McMinn led the Staff with 35 points.

Harry Bradford had the misfortune to be struck on the calf by a wayward ball belonging to another member of staff and had to limp back to the clubhouse.

When the scores were added up the Students had amassed 248 points compared to the Staff score of 204.

John Serhan, who is to captain the Interuniversity Team in Adelaide, accepted the trophy on behalf of the students. A return match is to be arranged in the second half of Second Term.

The University Billiards and Snooker Club played away from home, (at the Wallsend RSL Club) on April 15. A good win, 3-2, was recorded by University, with Todd Ritchie, Michael Anderson and Kevin Brereton snatching the necessary points.

(Practice is conducted on Mondays from 5.30 pm in the Union Billiards Room - new faces are always welcome).

SPORTSMAN’S BAR OPENING HOURS: Tuesdays and Thursdays 7 pm, Sundays 1 pm, Sundays (alternate) 1 pm.

Please note that the Bar is available for special functions on application to the Amenities Office (Extension 500 or 685 500-external).

NETBALL - players can be accommodated at Monday practice sessions on No.1 sports oval, from 4-5.30 pm. Please contact Patsy Walker.

HOCKEY - a lunchtime hockey session operates on No.1 sports oval from 12.30 - 2 pm. Please contact Mike Hayes.

LADIES JAZZ BALLET AND KEEP-FIT classes have commenced in the Auchmuty Sports Centre, from 1 - 2 pm, on Wednesdays. NOW is the time for the fair sex to trip the light fantastic and enter the fitness arena. Come and join us!

The annual Vice-Chancellor’s Regatta was held on April 12. Competitors, students and staff had been in training for up to 10 weeks to see a high standard of competition.

Billard, Commerce Crabs, Accounts Ladies, Gunners, Women’s Hockey Roulettes, Why Nots, Boat Club and Library were present at the final acceptances to compete in three heats, a repecharge, two semifinals and a final and 300 spectators were present. The draw saw the first heat won by Boat Club, with Nudes second and Library a distant third winning an oar (better luck next time, Joe). The second heat was a contentious issue, when Commerce Crabs (last year’s winners) defeated Accounts Ladies, with Gunners a long third.

It was discovered that the Crabs’ crew contained three experienced rowers, which was contrary to the Boat Club’s Regatta Rules, and the Crabs were handicapped by 20 seconds for the breach.

The third heat saw a comfortable victory for the Roulettes with Nudes sec-ond and nobody at all third.

The repecharge (between the three ‘seconds’) was just won by Nudes to make for interesting semifinals after the barbecue lunch.

The first semi between Crabs and Boat Club was a close event (after Crabs 20-second handicap), with Boat Club winning by a couple of feet - Crabs party was entirely happy at this stage, but consoled themselves from the ‘Esky’. The second semi between Roulettes and Nudes was won by Nudes by a small margin. A protest by Roulettes that the Starter had started them whilst they were not ready was upheld, and both crews were permitted in the final.

Tim Drinkwater (the University Scurer and Skip of Commercial Crabs) lined up with Roulettes, Nudes and Boat Club for the final. Once again a close tussle between Roulettes and Nudes saw Nudes as the Interfaculty champions by half a boat length.

Boat Club was about five lengths third. Tim Drinkwater’s performance of soundly beating all crews from his scull was outstanding, and should see him to a fine performance at Interuniversity Regatta in Adelaide. Nudes had already been training and competing in the Vice-Chancellor’s regattas for the last six years, and are to be congratulated for this their first victory. The performance of the Roulettes was an all women crew - was astounding. The crew had been competing in official regattas since the end of February, and showed a class of rowing unseen from the University’s women rowers for many years.

Other features of the Regatta were: a very successful handicap system; the Boat Club President (Professor Tanner) as M. C., Snagwash; Mr. Murray Hillan travelling from Sydney to be race starter; a fine barbecue lunch prepared by Men’s and Women’s Hockey Clubs plus other helpers and the arrival of the Vice-Chancellor to present the ‘Godfrey Tanner Trophy’ and ‘George’s Oar’ to the winning crew.

University research

The Federation of Australian University Staff Associations has launched a major new campaign to obtain an increase in research funding in the forthcoming budget.

The campaign is directed towards a boost in funding for the Australian Research Grants Scheme.

Dr. Peter Darvall, President of FAUSA, said his organisation had concluded a survey of the results of research done by ARGS grant-holders 11 years ago.

The results show developments in the intervening period of great significance to agriculture, science, industry, commerce, public health, and to the community generally.

"The ARGs is being funded in 1983 at about half the level, in real terms, that it was in 1966", said Dr. Darvall.

"The size of the average research grant has shrunk to about a quarter of its 1966 value. This means that it is far more difficult to obtain funding for important projects."

In 1981, ARGS grants totalled $16 million. FAUSA is asking for this to be raised to $22 million in 1982, and to $32 million by 1984.

"The new evidence we have gathered proves that basic research, if examined over the longer term, provides significant returns to the community" said Dr. Darvall.

"The results from 1970 include improved cattle breeding techniques, methods for fighting oil well fires; a study of the effects of oil contamination on native flora and fauna; advances in the prevention and cure of many human and animal diseases and disabilities; a more economic design for steel framed buildings; improved industrial boiler design; and a standard reference work on the Australian Constitution, to name only a few."
Dr. Henry Resigns

Dr. Brian Henry, Senior Lecturer in Chemical Engineering, has resigned from the University to take up a position in industry. Dr. Henry will be Manager Process Development for Shedden Pacific, Engineering Consultants and Project Managers for the chemical, mineral and energy industries.

Dr. Henry is one of the Tighe's Hill vintage, having joined the University in 1967. He has been associated with a number of activities within the University. He was Treasurer of the Staff Association and an Executive Member of the Staff House Club. He has taken part in a number of sporting activities. He was a long-standing member of the infamous Venerable Gentlemen Cricket Team.

Dr. Henry, having been very active for many years in engineering professional societies on both the local and national level, is presently Chairman of the New South Wales Group of the Institution of Chemical Engineers and a member of the Institution's national committee.

During his time at the University Dr. Henry has spent two sabbatical study leaves in England, working in the field of computer simulation of, and energy conservation techniques for, chemical process plant and processes, particularly distillation.

Dr. Henry, who spent several years in engineering practice in Australia and the United Kingdom before joining the University, has maintained close links with industry as a consultant while at the University.

Freewheels

All about Sex was the show presented to a most delighted student audience by Freewheels on April 8. Mr. Harry Carroll, of the Accounts Branch, took this photograph during the lunchtime show.

Advertisements

FOR SALE

HOME - STOCKTON AREA
Large brick veneer and tile home, as new, two double bedrooms, separate garage, small grounds, central to all amenities. Price available from 28 1652. Please telephone around 10 am Monday to Saturday.

KITCHEN/DINING ROOM TABLE - 118 cm (4') semi-gloss teak finish. Excellent condition. Black tubular legs, very stable, hardly used, $30. Please telephone Extension 649.

COACH TRIP - LIGHTNING RIDGE
Long weekend in October - leave Friday, October 2, at 7.30 pm. FREE supper on the way. COST: Adults $105, Children $100 (under 14). Includes motel bed and breakfast each day, barbecue lunch each day. PLUS Bus excursions to and from Lightning Ridge. A deposit of $10 is required when booking. Please telephone 58 2240.

ARGC REPORT

Dr. N.T. Hung is a former native of Vietnam who completed undergraduate and postgraduate studies in Electrical Engineering. He received his Ph.D. while in the area of control systems, and he was concerned with developing a new design method for a broad class of systems.

Many engineering systems have several points at which control inputs can be applied, and several points at which outputs or responses can be observed. For example, the turbo-alternator part of a thermal power station has both a mechanical control associated with the steam, and an electrical control associated with a magnetic field set up in the alternator in order that it generate electricity. The interesting outputs - which must be controlled - are two - the generator voltage and the generator frequency. Systems with more than one input and output are called multivariable systems. The control problem is to develop those inputs (steam and magnetic field for the example above) which will cause the outputs to take on the correct values. This is to be done as far as possible automatically, and in the face of various disturbances - for example changes in the electric power load supplied by the alternator.

While there are a number of design procedures available which lead to physical arrangements for generating the inputs to a multivariable system, there are difficulties with all the procedures. Dr. Hung's thesis provides another design procedure, not free from difficulties certainly, but with a different set of difficulties. This means that in some situations, his procedure may give the best design.
**AdVERTISEMENTS**

**HOME UNIT - JESMOND AREA**
Two bedroom home unit on the second floor of block, close to Jesmond Centre, recently refurbished and now as new, large lounge/dining, separate laundry, new Berber carpet throughout, under cover parking. $65,000. Please telephone Mr. Buchanan, 26 1666 in working hours.

**HOME - CARDIFF HEIGHTS**
Split-level architecture-designed, four bedroom house in bushland setting. Elevated position with fabulous views. Family/rumpus room with open fireplace and cork tiled floor. Modern wooden kitchen with dishwasher. ONLY $58,000, and no lawns to now! Please telephone Extension 255 or 54 8064.

**HOME - WARNERS BAY HEIGHTS**
Cavity brick, bushland setting, 3/4 acre. Three bedrooms, two bathrooms, study, huge living/dining area, natural timber kitchen with eating area, large rumpus room. Please telephone 48 9282.

**WANTED TO RENT**
House, Flat or space to park a caravan within a short walking distance of the University. If you can help please telephone Mrs. Win Murdoch, Extension 679.

**POSITIONS WANTED - TYPING**
The following persons would like to type theses, reports, occasional papers etc.

Mrs. Patricia Benz, telephone, 33 4834.
Mrs. Michelle Purser, telephone, 23 735.

**FOR RENT**
From early August 1981 until June 1982, a four-five bedroom house, two bathrooms, double garage etc. at Merewether Beach to suitably obsessive tenants. Please telephone Extension 657.

**WANTED - DOOR**

**MEMENTOS**
Convocation is presently selling a range of University mementos:
- Postcards and Greeting cards, with scenes of the campus (10 cents each, or six for 50 cents).
- University Wall Plaques $19.95 each.
- University Plates $19.95 or $24.95 (with buyer's name and special number).

Please call in at Room G60(a), McMullan Building, or telephone Extension 328 or 213.

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**DIARY OF EVENTS**

**FRIDAY, MAY 1**
1 pm  Mark and Turk present 'UP YOURS'
6 pm  SING FOR YOUR SUPPER with compare Steve Mellors.
6 pm  FREE Wine and Cheese Evening for part-time and mature age students.

**SUNDAY, MAY 3**
8 pm  NEWCASTLE FILM SOCIETY presents Dodes Ka'Den (Japan, 1971, director Akira Kurasawa).

**MONDAY, MAY 4**
6 pm  PARTY with Musical Flags

**TUESDAY, MAY 5**
1 pm  SRC LECTURE presented by Bishop Holland, Courtyard.
6 pm  Band - LES and the PALM FRONDS, Stan's Bar.

**WEDNESDAY, MAY 6**
noon to 2 pm  GERMAN FILMS - Clavigo (Drama by J.W.v. Goethe) (1970, color, with German and English subtitles) Language Laboratory, McMullan Building.
1 pm  John Ewbank in the Common Room.
6 pm  Steve and Lee Budden (singers in Stan's Bar).

**THURSDAY, MAY 7**
8 pm  SURFRIDERS "CRYSTAL BALL". Bands include: Critics, Voices, Musical Flags and Contrax.

**FRIDAY, MAY 8**
1 pm  LAST DAY RAGE with singers Sonia Bennett and Steve Hoy.
6 pm  BAND - Layabouts.
1 pm  SING FOR YOUR SUPPER with compare Steve Hay.

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