Botanic Showplace

The gardens around the Great Hall and the precincts of Lecture Theatre E01 are just two of the areas which are expected to be embellished by Australian hybrids donated by Wallsend Nurseries.

Mr. Ken Bargallie, who owns Wallsend Nurseries, has agreed to provide approximately 100 advanced hybrids during the year and to make further donations in subsequent years so that the University can develop special gardens of Australian natives.

Mr. Bargallie says he has decided to donate the hybrids to the University because he wants to do something for Newcastle and the University has the potential to become one of the botanic showplaces of Australia.

The donation will allow the University to enlarge a garden established some years ago by the Flora and Fauna Society alongside the Great Hall, taking advantage of major developments in hybridisation of Australian natives, in particular grevilleas, banksias, callistemons and melaleucas.

Mr. Bargallie agreed to fund the special gardens after being approached by his friend Professor Ron Laura, of the Department of Education.

Mr. Morris, Professor Laura and the donor of the hybrids, Mr. Bargallie. Photo: Roger Broadbent.

INSIDE: New Institute Announced
Mr. Bargallie told the NEWS that on a visit to the University with his student son he had seen the potential of the grounds for growing hybrids.

"The University is very happy to receive a donation of new and existing hybrids to enrich the landscape around the Great Hall", commented the Planner, Mr. Don Morris.

"Funding limitations have prevented us from experimenting and specialising in this field in the way we would have liked", he said.

**COUNCIL CHANGES**

Following the 1984 Council elections, Professor Godfrey Tanner, Mrs. Margaret Henry and Dr. David Kay are new members of the Council.

In the ballot to elect the Professorial members, Professor Tanner and Professor Ronald MacDonald were elected.

The successful candidates in the ballot for the two academic positions other than Professor were Mrs. Margaret Henry and Dr. Donald Wright.

In the ballot to decide who would fill the two vacancies for Non-Academic staff, Mr. Trevor Askie and Dr. David Kay were the successful candidates.

Another election to fill three vacancies for members elected by members of the Council themselves will be conducted on July 9.

Professor Laura says Mr. Bargallie has helped him a great deal to develop the native garden at his home at Carey Bay. (In the last Mattara Professor Laura's garden won a major prize, principally because of his varied collection of hybrids.)

"Funding limitations have prevented us from experimenting and specialising in this field in the way we would have liked", he said.

**B.MED. Recognised**

The University's Bachelor of Medicine Degree has been awarded full recognition by the General Medical Council of Great Britain.

Announcing the GMC's decision to recognise the degree, the Dean of the Faculty of Medicine, Professor John Hamilton, said the degree was already recognised for full registration in Australia. Full recognition by the General Medical Council of Great Britain declared it to be on equal standing with medical degrees in Great Britain, Professor Hamilton said.

"It has been standard practice for the General Medical Council to undertake reviews of all Schools in Australia, and thereby establish reciprocal accreditation.

"The Council sent a team of four distinguished academics, who reviewed all aspects of the curriculum, the teaching facilities and the student assessment, in November, 1983. Their recommendation arrived this week, in a letter to the Vice-Chancellor."

Professor Hamilton said that graduates, students and Faculty were gratified to know that the team considered the course to be of good quality and had congratulated most warmly all those who contributed to the teaching programme.

"The recommendation of the team was that we be awarded full recognition and this recommendation has been accepted by the General Medical Council.

"This recognition is of great value to the School and to its graduates. It permits reciprocal registration in many other countries and affirms that the education and training afforded by the University of Newcastle is recognised to be of international standard," Professor Hamilton said.
A new Institute for research in the field of behavioural science will be launched at the University shortly.

The Institute of Behavioural Science, established on the initiative of Professor John Keats, of the Department of Psychology and Assoc. Professor Don Parkes, of the Department of Geography, is designed to provide a centre for postgraduate training and research, undertake contract research projects for outside bodies, create facilities for long-term studies, conduct seminars and conferences and achieve other aims and objectives.

The affairs of the new Institute will be directed by an Advisory Board consisting of leading persons from local business, finance, local government and other fields, members of the Council, the Senate and staff of the University, Professors from other universities, the Vice-Chancellor's nominee, the Executive Officer and the Bursar's nominee.

The members of the Board elected so far are Professor Keats (the Vice-Chancellor's nominee), Dr. P. Hendry and Emeritus Professor L. Short (Members of the Council), Professor J. R. H. Williams, of the Department of Psychology and Assoc. Professor J. Biggs (members of the Senate), Professor C. M. Parkes, of the Department of Sociology, and Dr. J. M. R. Parke, of the Department of Geography, is designed to provide a centre for postgraduate training and research related to their activities, he says.

"Projects which have already led to some initial data collection include one investigating the causes and incidence of stress in workers in a number of occupations. By creating data banks from these investigations, it will be possible to isolate variables related to stress in a number of different occupations. Models incorporating these variables can then be tested in other work situations."

In a similar way, the problem of selecting and training apprentices is being explored and relevant data is being collected."

Professor Keats says a number of other areas of potential activity are being investigated.

The first meeting of the Advisory Board will be held on July 27. The Institute would like to hear from those who are interested in cooperating in the project. To establish communication, please contact Professor Keats or Professor Parkes.

The Institute of Behavioural Science will offer the first of a continuing programme of seminars on July 13.

Dr. Neil Wrigley, of the University of Bristol, United Kingdom, will give an address on Panel Data Models of Urban Retailing Behaviour in Room R04 in Geography at Noon.

Dr. Wrigley is visiting Australia at the invitation of the School of Economic and Financial Studies at Macquarie University.
The Australian Vice-Chancellors' Committee is concerned that the Academic Salaries Tribunal's decision to phase-in the five per cent salary increase previously granted to academic staff has had the predictable result of causing the New South Wales Teachers' Federation to make application to the New South Wales Industrial Commission for a salary increase for its members in colleges and universities in that State.

At its meeting on June 19, the AVCC noted the grounds on which the Commonwealth Government sought the phasing-in of the salary increase (two per cent from April 17, 1984, and three per cent from April 17, 1985). However, the AVCC pointed out to the Tribunal that the purpose of the Inquiry earlier this year was to establish a firm and equitable basis upon which future indexation increases could operate. The phasing-in of the increase runs counter to the concept inherent in the decision.

Further, the destabilising of industrial practices through staff associations seeking remedies in State Tribunals will possibly cause considerable repercussions and lead to fragmentation at a time when national representation for university staff is near fulfilment.

The AVCC is responding to an invitation from the Secretary of the Department of Science and Technology for comment on the National Technology Strategy which was developed following the National Technology Conference in September, 1983. Comments on those aspects of the Report which have research and general policy implications for the universities are being prepared for transmission to the Department of Science and Technology by June 30, 1984.

The AVCC has agreed to cooperate and support a survey of income and expenditure patterns of Australian tertiary students to be undertaken by the Department of Education and Youth Affairs in 1984. Similar surveys were conducted in 1974 and 1979. This survey will provide essential current information for use by those bodies involved in developing student assistance policies.

The Chairman of the AVCC, Professor L.M. Birt, has met with the Opposition's spokesman for Education and Youth Affairs, Senator The Honourable Peter Baume, for discussions on the Liberal/National Coalition's Education Policy which was released on May 10, 1984. The AVCC has briefed the Policy Statement and AVCC representatives will meet with Senator Baume later in the year for detailed discussions on the Opposition's Education Policy.

The Ninth Commonwealth Education Conference will be held in Nicosia, Cyprus from July 22 to 26. The Minister for Education and Youth Affairs has approved that Australia should be represented by a delegation of five members including a Vice-Chancellor, and the AVCC has nominated Professor D.R. Stranks, Vice-Chancellor, The University of Adelaide, to be a member of the Australian delegation.

The AVCC welcomes the release of the Government's Policy Discussion Paper entitled Affirmative Action for Women. It has noted that there are several references to the position of women in universities, particularly those who are employed on both the academic and non-academic staff.

The AVCC is delighted that it has been invited to nominate a person to serve on the working party to oversee the development of an Affirmative Action Policy (Professor L.M. Birt has been nominated); and that two universities, namely the Australian National University and Griffith University, have agreed to participate in the pilot programme to assist the Government to identify new affirmative action programmes for women might best proceed.

The Institute of Industrial Economics has invited Professor Tom Cannon, Director of the Scottish Enterprise Foundation and an eminent scholar from the University of Stirling to visit Australia in October and November this year. Professor Cannon will play a prominent role in the Second National Small Business Research Conference being convened by the Institute at the University. Following the conference, Professor Cannon, in conjunction with Professor Alan Williams of the Department of Commerce, will conduct a one-day workshop for management trainees.

Professor Cannon, while in Newcastle, will work with MBA students and a number of interested organisations. In addition he is expected to be involved in management training activities in both Sydney and Melbourne. In the last week of his stay in Australia Professor Cannon will have a busy programme in Hobart and Launceston, with arrangements made by the Tasmanian College of Advanced Education.

The Second National Small Business Research Conference will be held over two days, October 29 and 30. The workshop for management trainees will be held on October 31. Further information can be obtained from the Institute's Director, Dr. Colin Aislabie (Extension 561), who is organising the conference, the Institute's Deputy Director, Mr. Winston Dunlop (Extension 779), who is the conference director responsible for the selection of papers, and Professor Williams (Extension 742) in relation to the workshop.
The Supernova Science Fair for 1984 will be held in the Great Hall between August 21 and 25.

According to the organisers, the Great Hall will become Newcastle's own House of Solomon for the five days of the fair.

A general invitation has been extended to all students and staff members of the University to become involved in showing the Newcastle and Hunter Valley community just what a House of Solomon has to offer.

The aim of the Science Fair is to encourage awareness through participation in problem solving processes and to explain science and technology by means of an enjoyable educational experience.

To create a Fair atmosphere, an invitation is extended to all groups on campus and in the community to participate via a staff/exhibit/lecture or the provision of an activity.

Supernova will run a school science competition in conjunction with the Fair. The theme for the competition is Water. Staff and students have been asked to encourage their school age friends/children to participate. There are many good prizes to be won.

An Inventors' Corner is intended to provide all inventors on campus and in the community with an opportunity to display and publicise/sell their unique ideas as well as compete for a major prize.

The now famous Paper Glider Competition will be held in the Great Hall on August 25 at 2 pm.

Staff and students have been invited to assist the organisers by acting as guides or undertaking other tasks associated with presenting the Fair.

A visitor to the Property Division might be forgiven for thinking Robyn Gentle had been acting strange. The visitor will note that Ms Gentle's sweater is in a state of unrest.

Actually, she is providing Ralph and Gretel with a warm home during the cold days of the winter.

Ms Gentle brought the ringtail possum and the squirrel glider down from the North after they had been rescued from an area being cleared for development.

She is giving the immature animals constant care, which includes carrying them around the University under her sweater.

Ms Gentle took up her appointment recently as Manager of the Central Animal House. She was previously attached to the University of Queensland as a Clinical Tutor in the Faculty of Veterinary Science.

The Hunter District Water Board, Jayes and Northern Computing Services are major sponsors of the 1984 Fair. They have donated substantial prizes, including a return air fare for two to Canberra with two nights' accommodation at the Park Royal Hotel, an Apple IIc computer and monetary prizes worth in excess of $1,000.

Information can be obtained from Michael Linich (Medical Sciences), Tim Roberts (Biological Sciences) or David Finlay (Psychology).
Joint Chemistry meeting

A joint Department of Chemistry/Royal Australian Chemical Institute meeting will be held on Monday, July 30 at Noon.

Professor N. Sheppard, F.R.S., of the School of Chemical Sciences, University of East Anglia, United Kingdom will be the guest speaker.

Professor Sheppard will speak on Studies of Hydrocarbons on Metal Surfaces by Infrared and Electron Energy Loss Spectroscopies.

ACE NEWS

The Second Term meeting of the Hunter Regional Group of the Australian Council of Education will be held on Wednesday, July 18 in the University Staff House. The guest speakers will be Ian McLeod, Master of Apprentices, BHP and Peter Walsh, Staff Training Officer also of the BHP. The topic of this meeting will be The Preparatory Background of BHP Apprentices and Trainees and Their Response to the Training Programmes.

A dinner will precede the meeting (6.30 pm for 7 pm) and the cost will be $10 per person. Visitors are welcome.

If you wish to attend the dinner please contact Dr. Alan Barcan, Department of Education. Should you wish to attend the talks only, please note that these are planned to commence at 8 pm.

Mr. McLeod's talk will, of course, relate to students who leave school at Year 10. Mr. Walsh's talk will relate to students who complete Year 12 and proceed to University or Technical College.

YEAR 12 LAB SESSIONS

In an attempt to provide HSC 2-unit Physics students in the Hunter Region with some of the experiences necessary for them to understand the subject matter of the syllabus, the Physics Department arranged laboratory sessions covering the most important parts of some of the syllabus. The exercise began on June 25 and continued until July 6. Small groups of 20-25 students at a time attended either morning or afternoon sessions during which they are able to get valuable "hands-on" experience doing the experiments which demonstrate and reinforce the subject matter of the syllabus. Students were able to observe, measure and carry out the experiments themselves rather than simply have them demonstrated, as would be the case in larger group situations. In all, 17 schools and 400 students visited the Department in the two-week period.

The Head of the Department of Physics, Professor Ron MacDonald, was largely responsible for initiating the project, but most members of staff in the Department were involved in the tutoring and demonstrating to the Year 12 students. The assembly of the equipment and the organisation of the experiments was the responsibility of Mr. R. Raper, assisted by Mr. J. Foster.

Professor MacDonald said the exercise was no real substitute for the students having access to such equipment in the schools, at the time they were dealing with the theory in class. The Department of Physics was strained by offering the session and another in August and the two sessions were related to only about one-third of the subject matter the students must absorb.

The Department, he said, was aware of the benefit the students derived from even the few hours of laboratory experience and would try to continue the programme into 1985. However, increasing student enrolments and decreasing academic and technical staffing levels meant that there was no guarantee that this would be possible.

Professor Ron MacDonald with a Kotara High student demonstrating double slit interference using a laser source.
Mr. E.A. (Ernie) Walpole, who joined the Department of Chemical Engineering last term to become a lecturer, is no stranger to the University. He was one of three chemical engineers who in 1953 formed the entire first graduating group from the Newcastle University College.

Mr. Walpole was a trainee at the BHP Steelworks. He left BHP and spent some time in Tasmania, Queensland and Sydney, before returning to Newcastle in 1972 as manager of Australian Fluorine Chemicals on Kooragang Island.

From 1973, he assisted on a part-time basis with the teaching of Design in the Chemical engineering course. As a contact point with industrial practice, he acted as a channel through which students could learn not only about the latest technical advances but also about the equally important areas of management, industrial relations, and environmental protection.

At the time of his appointment, Mr. Walpole was an external member of the Board of Environmental Studies, a reflection of his long-term interest in the Australian bush.

He is a State Council Member of the National Parks Association of New South Wales and a committee member of the Society for Growing Australian Plants.

University NEWS recently talked to the President of the Staff Association, Dr. Don Wright, about Headship of Department proposals which he recently put to Senate on behalf of his Executive. The following is a transcript.

NEWS: Don, how extensive are the changes that the UNSA is proposing?

DON: Very extensive indeed. We want the position of Head of Department thrown open to all full-time tenured members of the academic staff of the rank of Lecturer and above.

NEWS: What justification is there for such a change?

DON: We believe it can be justified on several grounds, but the main one is simply that in a university, which we are often told is supposed to be a "community of scholars" and governed on "collegiate principles" it is appropriate that every position should be filled by the person best able to meet its demands. That may be a Professor, but, equally, it may be someone much further down the line.

NEWS: But wouldn't a Lecturer, however able, necessarily be at a disadvantage when contending with a Professor for resources? Wouldn't your proposal also lower the prestige of this University outside?

DON: As far as outside universities are concerned, there should be relatively little problem, as many institutions in Australia and North America already go further than we are asking. Internally, I admit there would be a short-term problem. Our senior people have become used to a hierarchical system and many, but not all, of them therefore tend to think it appropriate. However, I am sure that, with experience, they will come to see that our proposal is better for everyone.

NEWS: Is the Staff Association simply being "anti-professor"?

DON: Not at all. It is merely arguing that we should always choose the best person for any given job. The headship of a department is a highly responsible position which involves administration, human relations, financial management and other elements. The best person to do it may very well be the Professor. Equally, it may well be someone else. That question should be decided by the full-time members of the department.

NEWS: Do your proposals have any bearing on equal opportunity?

DON: Certainly. At the moment, because of past appointment and promotion practices, very few people from minority groups are likely to occupy this or other responsible positions. Under our proposals, any such person who had the ability would have an opportunity of being elected. Their chances would be considerably enhanced.

Asked what chance he thought the Staff Association proposals had of being accepted in their present form, Dr. Wright admitted that they had not been particularly well received by Senate, but said that he thought that if the current suggestion being discussed in the ALP for the introduction of only three spot salaries for all academic staff ever became a reality, there would be a sudden move towards democracy.
Mr. Peter Waymouth.

A question of real interest to psychologists and educationists is how placing children in graded classes influences their perceptions of, and feelings about, school life.

Mr. Peter Waymouth researched this question and showed that pupils from streamed (graded) classes do appear to have different perceptions of their classrooms and teachers to those of pupils from non-graded classes. Mr. Waymouth's findings were reported in a thesis, entitled A Study of Classroom Climate: Comparison Between Streamed and Non-Streamed Schools, which was completed as part of his Master of Psychology (Educational) degree, under the supervision of Dr. Ross Telfer. A total of 320 Year 6 pupils participated in the study. They came from six Newcastle primary schools.

Streaming is a common means of grouping pupils for instruction in New South Wales primary schools, Mr. Waymouth says. It creates groups of children who are relatively similar in their levels of intelligence and attainment. Such streamed classes have often been compared with non-streamed classes, he says, to determine the more effective and successful system of organisation in terms of both academic and non-academic variables. However, the wealth of streaming studies in the literature has failed to produce conclusive findings.

Numerous studies, also, he says, have examined the question of classroom climate. "Climate" refers to the environmental characteristics of school classrooms, including aspects such as competitiveness, cohesiveness, friction, favouritism, apathy, formality, cliqueness, and satisfaction.

Mr. Waymouth's study was undertaken in an attempt to determine whether pupils' perceptions of classroom climate differ according to the grouping practice of the school. Two paper-and-pencil measuring instruments, My Class Inventory and School Sentiment Index, were administered to 195 Year 6 pupils from four Newcastle schools. Two of these schools streamed their pupils and two did not.

Mr. Waymouth's results indicated that streamed classes were characterised by significant levels of cohesiveness and friction, while non-streamed classes were characterised by significant levels of satisfaction and difficulty, and a positive attitude toward the teacher.

The instruments were also administered to a further 127 pupils from two streamed schools to examine perceived differences in classroom climate among the three streams.

The results generally favoured the 'B' stream which reported more cohesiveness, a more positive attitude towards learning, and a more favourable general orientation towards schooling. 'A' stream pupils reported experiencing a more favourable attitude toward their peers.

Discussing the findings, Mr. Waymouth points out that the narrower range of intelligence and ability in streamed classes contributes to the cohesiveness. It was the effect of the less-able component of the streamed class which led to the friction which was reported. He has suggested strategies that teachers can adopt in order to avoid such friction when working with low ability pupils in graded classes.

"The satisfaction of pupils is determined by interaction with three variables: teacher, classmates and lesson," he says. "While perhaps disliking both the teacher and the subject matter, a pupil can gain sufficient favourable support from classmates to maintain a high level of satisfaction. In non-streamed classes, the more positive attitude to the teacher appears to have been the major factor determining the level of satisfaction."

Regardless of ability, non-graded pupils were more positive in their attitudes to the teacher than pupils in graded classes. Mr. Waymouth argues that the more heterogeneous social composition of the non-graded classroom was the contributory factor. Friction is reduced, he says, because the less able pupils are presumably content to share the room with more able pupils who contribute to the accomplishment of the more difficult class work.

Where three grades of pupils were compared, the 'B' group perceived their classroom climate more favourably than the 'A' or 'C' groups. Perhaps the 'C' group regarded themselves as academic "failures" in comparison to their more intelligent peers, while the challenging nature and faster pace of the 'A' Stream may have a negative effect on some pupils. Some pupils may be unable to cope with the combined pressure of work difficulty and teacher expectations.

Mr. Waymouth says another explanation of why the results
CTEC REPORT RESPONSE

LESS THAN WE HOPE, MORE THAN WE FEARED

The Federal Government's response to Volume I of the CTEC Report for 1985-87 is something of a "mixed bag". Though less negative than some had been predicting (at least until the Government's intervention in the academic salaries case made it clear that some increase in funding levels could hardly be avoided), it nonetheless follows a familiar pattern in not accepting the Commission's advice in its totality.

The Guidelines to the Commonwealth Tertiary Education Commission, issued by the Minister for Education (Senator Susan Ryan) on July 5, set out the overall financial parameters within which the Commission will now be required to determine its detailed recommendations for grants to individual institutions.

The two main features of the Guidelines are a preference for "steady growth" in 1985 rather than the more dramatic rectifying of deficiencies recommended by the CTEC, and a decision to order investigations on "alternative means of meeting (the Government's) objectives" before final decisions are taken on total funding levels for 1986 and 1987. The latter decision appears to represent a compromise between the option of making 1985 a year outside the triennium (thus deferring the return to significant growth) and that of setting out the full levels of approved financial commitment "in a budgetary climate that requires maximum restraint on expenditure".

The "alternatives" to be investigated in the intervening period include the wider use of new technologies for increasing participation; more intensive utilisation of existing resources; the increased involvement of the private sector in funding research; and a reduction in the costs and complexities of present arrangements for co-ordination and consultation with States and institutions.

The Guidelines do at least contain a guaranteed minimum level of funding for both capital and equipment for 1986 and 1987 which is the same in real terms as in 1985. The 1985 sums for the higher education sector (universities and colleges) are: $84m. for equipment (an increase of $2.5m. in real terms over 1984) and $64.8m. for buildings (an increase of $11m.). In both cases, funds are to be directed chiefly to institutions where intakes are increasing, and in the case of capital grants the enrolment implications of each approved project are to be identified.

Increases in recurrent funds are similarly aimed at achieving the Government's objectives of increased participation and greater equity. The recurrent fund level for the higher education sector in 1985 is set at $1842.95m. (an increase of $40.75m. over 1984), and minimum increases (to $1866.4m. in 1986 and $1884.3m. in 1987) have been agreed in order to accommodate pipeline enrolment growth and unavoidable superannuation commitments. Any further increases in recurrent funds, above these minimum levels, will need to await further Government consideration.
Enrolment growth is to be directed towards areas of greatest need, in particular to outer metropolitan areas and State and regional areas with low participation rates. The trend of recent years towards an increase in mature age enrolments should not, in the Government's view, be allowed to reduce the number of places available for young people. The increased participation of Aborigines, women and the disadvantaged is strongly encouraged. As recommended by the CTEC, the layer proportion of enrolment increases (about 70 per cent) is to be in CAEs.

Increased intakes, along the above lines, will account for 15,000 extra places by 1987 (made up of the 11,000 places created by increased intakes in 1983 and 1984 and the 4,000 additional places resulting from extra intakes in 1985 and 1986). Of these 15,000 places, some 4,500 will presumably be in universities. The funding provisions will provide for about an additional 1,600 academic staff and 900 general staff by 1987 (again, some 30 per cent of these will presumably be in universities) though the Government recognises that - given the growth in enrolments - this will do nothing to redress the very serious deterioration in staff:student ratios to which the Commission drew attention in its recent Report.

It is disappointing that the Government has not been able to accept the CTEC's recommendation for special measures to redress the deficiencies in library provision. It has, however, made provision of $1m. to establish a number of Key Centres in universities and CAEs in 1985 - though supplementation will need to be provided from other sources; while the CTEC recommended that Key Centres be chosen on the basis of their quality, the Government has decided that priority will be given to "activities which have potential for direct economic or social benefit." Special Research Grants are to be maintained at present levels, but measures are to be devised to ensure that universities become more selective in the allocation of grants.

The Government has asked the CTEC to submit its report on the distribution of funds to individual institutions by September 15, 1984.

K.R. Dutton,
Vice-Principal.

July 6, 1984.
favoured the 'B' Stream centres on the way pupils are allocated to the three classes. The majority of children would fit the average range of intelligence, with fewer being classified above- or below-average. The 'B' class may be the only one where all the children are in their most appropriate ability grouping. 'A' Classes frequently have a few above-average pupils, with the numbers made up by the better average-ability pupils. Similarly, the 'C' Class may include some less capable, average pupils.

Classroom climate, thus, proved to be a significant variable in the differentiation of pupil grouping practices in a sample of schools, with Mr. Waymouth's study showing significant results in terms of comparison of streamed and non-streamed schools, perceptions of pupils in such schools, and perceived differences in learning environment for A, B and C grade pupils in streamed schools.

Pulsations in Space

Photo shows Professor Brian Fraser (at left) and Dr. Fred Menk. Photo: Roger Broadbent.

A research group from the Department of Physics is pioneering study on the propagation of geomagnetic pulsations at the world's middle and low latitudes.

The group has previously done research on the appearance of geomagnetic pulsations at sites ranging from Macquarie Island (Antarctica) to Auckland (New Zealand) and Broken Hill (New South Wales).

Among the present work being done by the researchers is the establishment of a chain of field sites along the eastern coast of Australia from Victoria to Mackay (Queensland).

For the last five months a Postdoctoral Research Associate has been helping the head of the group, Assoc. Professor Brian Fraser, with this major project, which aims to explain poorly understood aspects of the appearance of geomagnetic micropulsations.

He is Dr. Fred Menk, whose position in the Department of Physics is supported by the Australian Research Grants Scheme. Dr. Menk, who holds B.Sc. and Ph.D. degrees from La Trobe University, lived at Davis in Antarctica mainly studying auroral physics and recording geomagnetic pulsations.

Despite the extreme cold, he had a successful and satisfying stay at Davis where he lived with more than 20 fellow researchers. After 15 months he returned to Australia and thought the weather was very hot.

Between leaving La Trobe and taking up his position in Physics, Dr. Menk was attached to the Antarctic Division of the Department of Science and Technology.

The investigation of geomagnetic pulsations has been the subject of several years of research by Professor Fraser's group.

Geomagnetic pulsations are small scale oscillations of the earth's magnetic field in response to energy input from the solar wind (a plasma streaming through space from the sun) and the interplanetary magnetic field conveyed with it.

These generate plasma instabilities and oscillations both at the interaction boundary with the earth's field, called the magnetopause, and closer to earth within the magnetosphere, which manifest themselves at the surface as micropulsations of the magnetic field.

The present work also involves upgrading equipment to record directly onto computer disc a wider range of signal variations.
OPEN DAY '84

From now until Open Day (actually two days, September 15 and 16) we hope you will see this logo and slogan repeatedly.

The Committee of Management of Open Day has chosen the design to link together the Open Day promotions. It will be featured in the University's advertising for Open Day.

Invitations, small posters and advertisements will be included in the publicity material to be given out by the Committee of Management to increase the community's awareness of Open Day.

As Open Day usually occurs only once every five years, you might want to keep a copy of the art work as a souvenir.

The presentation was designed by Mr. John Single, Medical Artist in the Faculty of Medicine. Mr. Anton Donker, Manager of 2NUR-FM thought up the slogan.

SIX YEARS AS HEAD

After spending six years in the position of Head of his department, it's no surprise that Assoc. Professor John Bach asked for an opportunity to work on his research.

Professor Bach, whose resignation from his old position of Head of the Department of History was approved by the Council on June 15, is aiming at meeting an end-of-the-year deadline on the writing of a history of the Australian Station of the Royal Navy and the editing of William Bligh's notebook for the Australian National Library.

Professor Bach could be described as one of the founding fathers of the University. Leaving the New South Wales University of Technology he came to Newcastle University College as a Lecturer in History in 1954, not very long after Professor James Auchmuty (then an Assoc. Professor) had founded the Department of Arts.

After the University became autonomous in 1965 Professor G. Cranfield was appointed Professor of Modern History and Head of the Department of History.

Professor Bach was appointed Head of the Department in February, 1978.

Six years on, Assoc. Professor G. McMinn has been appointed Head of the Department for the remainder of Professor Bach's term, that is, until March, 1986.
Father Bromley has been an Anglican Chaplain to the University since 1980 and Senior Anglican Chaplain since January, 1983.

He was elected leader of the University's graduate body at the annual general meeting on June 20 in succession to Mr. Philip Miller, Warden since 1980.

Mr. Miller retains a place on Standing Committee of Convocation as Immediate Past Warden.

Father Bromley holds B.A. and B.Ed.Stud. degrees in this University and is currently a Commonwealth Scholar reading for a M.Ed.Stud. degree.

From 1970 to 1972 he was the Chairman of the Anglican Education Commission in Argentina, Uruguay, South Brazil and the Falkland Islands.

In 1972 he went to Scandanavia and Russia on a study tour, which included an appointment as visiting lecturer in economics at the College of Commerce in Copenhagen, Denmark.

He trained for the priesthood at St.John's College, Morpeth, and following his ordination studied at St. George's College in Jerusalem. He is also a graduate of Trinity College, London, and the College of Preceptors, London.

From 1974 until 1976 he was a student member of the Council of Macquarie University.

He is a member of the Hunter Postgraduate Medical Institute.

Father Bromley's wife, Loraine, is Secretary in the Department of Chemical Engineering.

University 'First'

A meeting held recently in the Mullin Building was a "first" for this University.

Representatives of all unions with industrial coverage of employees met to consider an issue affecting all employees - the first time such a meeting has ever taken place.

The unions are the Public Service Association, the Staff Association, the Health and Research Employees' Association and the Miscellaneous Workers' Union.

The issue which gave rise to the meeting is the recently published regulations made under the Occupational Health and Safety Act, 1983.

The Act imposes wide ranging responsibilities on employers who are placed under a duty to guarantee the health, safety and welfare at work of all employees.

A major feature of the Act is that employees are given the right to participate in decisions affecting them. This is to be done through an Occupational Health and Safety Committee which must be established at the work place where 20 or more persons are employed and a majority requests the establishment of such a committee.

The representatives of the four unions have expressed unanimous agreement for the establishment of a committee under the Act. All members of staff will shortly be requested to sign a petition indicating their support for the proposal. A notice is to be distributed to all members of staff giving further details soon.

Singapore Employment

The Professionals Information and Placement Service has embarked on its 5th Australian and New Zealand Overseas Recruitment exercise.

Graduates of outstanding academic achievement are sought to work in the stable, multi-racial society of The Republic of Singapore.

It is thought that students from around the region, namely, Malaysia, Indonesia, Thailand and Hong Kong, would be most attracted as they would be able to assimilate into the Singaporean way of life most easily.

The closing date is July 31.

The booklet Careers in Singapore and application forms are available from the Careers and Student Employment Office, Room T25.
Call for assistance - Warden

Mr. Philip Miller, retiring Warden of Convocation, has spoken of the need for the Council to expand urgently the assistance it gives to Convocation.

Mr. Miller told the annual general meeting of Convocation on June 20 that with Government cutbacks in capital and recurrent expenditure and probably in research grants the University must look more to its graduates for financial and moral support.

"Council should take heed of what other universities are doing", he said. "Melbourne University has recently decided to spend $250,000 a year to set up an Alumni organisation, which, hopefully, will start paying dividends by the year 2000. Adelaide University is doing an in-depth study of the problem.

"The Australian Vice-Chancellors' Committee is supporting a proposal for experts to be brought from Canada to give us some insights into how to rally our graduates to support their universities. This University cannot - indeed it must not - miss the boat."

Speaking before the meeting elected a new Warden to succeed him, Mr. Miller cited a number of activities that had made the last year a very busy time for members of Standing Committee of Convocation:

- Inaugural Lectures by Professor John Boulton (Paediatrics) and Professor Richard Kelman (Occupational Medicine).
- The Newcastle Lecture given by the Hon. Barry Jones, MP, Australian Minister for Science and Technology.
- "The Newton-John Award to Dr. Roy Gilbert, Director of the Ministry of Housing in Victoria.

Members' Nights at which Robyn Williams, of the ABC's Science Show, and Tim Roberts, of Supernova, gave addresses.

In conjunction with the Book Fair, ethnic food stalls and an exhibition of dancing in the Great Hall.

Graduates who live in Queensland rallied to the cause in October and an enthusiastic 50 people attending a special dinner in Brisbane.

The awarding of the Newton-John Award to Dr. Roy Gilbert, Director of the Ministry of Housing in Victoria.

The annual general meeting of the Australian University Graduates Conference in Wollongong. Newcastle dominates the AUGC Committee, with Mr. Miller President, Ms Mary Kane as first Vice-President, Mr. J.S. Boydell Secretary and Mr. J. Broughton Education Officer.

The contribution made to Graduation Day.

The retirement of Mr. Miller as Chairman of the Convocation Foundation and the appointment of Professor Cyril Renwick to take his place. The Foundation is currently reviewing its activities and is expected to continue its development soon.

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Professor R. Laura and Dr. A. Ashman, of the Department of Education, celebrate the signing of twin contracts for their two forthcoming jointly-edited volumes on mental retardation. Both books are to be published for world distribution by Croom Helm Ltd. in Beckenham, England.

The first of their two books to be published is Ethical Issues in Mental Retardation. Among the distinguished international contributors to Ethical Issues in Mental Retardation are philosophers such as Professor R.S. Downie, of the University of Glasgow, Professor B. Steinbock, of New York University, Professor G. Smith, of The Catholic University, Washington, D.C., Professor M. Bayles, Director of the Westminster Institute for Ethics and Human Values and Professor R. Singer, Director of the Institute for Bio-Ethics, Monash University. The book addresses itself to some of the most vexing philosophical questions raised by mental retardation. Among topics to be included in the book are: genetic engineering, psychosurgery, abortion and infanticide, paternalism and consent, positive discrimination, compulsory genetic screening and sterilisation.

Their second book, entitled The Education and Training of the Mentally Retarded: Recent Advances, is a collection of original papers by internationally-known scholars from Australia, Canada, The United States and New Zealand, all of whom have made significant contributions to the field of medical retardation. The volume addresses issues related to the remediation of cognitive and behavioural deficits in both children and adults. The content covers a range of topics including the use of computers and modern technology in training, the deinstitutionalisation of aggressive and maladaptive residents, self-injurious behaviour, non-speech language, vocational training for severely and profoundly handicapped persons, and a consideration of several approaches for remediating cognitive and behavioural deficits.

The volume is aimed at practitioners interested in recent developments, senior undergraduate and graduate students, and researchers in the area of developmental disabilities.

Ethical Issues in Mental Retardation is scheduled to be published in December, 1984, and The Education and Training of the Mentally Retarded: Recent Advances in February, 1985.

Papua New Guinea Patrol

The famous Taylor-Leahy Bena Bena Mt. Hagen patrol of 1933 will be examined in a talk, illustrated with slides, at the University on July 17. Peter Munster of Deakin University will give the talk.

The Taylor-Leahy Bena Bena Mt. Hagen patrol opened up the Highlands of Papua New Guinea - and a population of 1 million people - to the astonished gaze of the outside world.

The patrol has also become the subject of the award winning film First Contact, which contains unique footage of the first meetings between Highlanders and Europeans.

Peter Munster was official 'Historian-in-Residence' at Goroka in 1983 during 50th anniversary re-enactments of the patrol. His job was to talk to people along the route about the significance of the patrol and why the re-enactment was being held. He also had the daunting experience of giving a public lecture at Goroka on the patrol, at which James Lindsay Taylor himself was present.

The venue for the talk will be Room R02 in Geography at 1 pm. All enquiries should be directed to Peter Hempenstall, History Department, Extension 471.
POET'S SUCCESS

Mr. Keith Russell, postgraduate student in the Department of English, is represented in an Anthology from the Sotheby's International Poetry Competition 1982.

An extract from Mr. Russell's The Landscape Artist Returns To His Native Trees To Discover

Vision And Writes To His Mother appears in the anthology, together with 88 other poems. The poems were selected from 33,000 poems entered for the 1982 competition.

Mr. Russell's poem will be published in full in Nimrod Publications' forthcoming book, Aussie Mag.

SPORTING NEWS

Intending contestants in the "Campus Scamper" are warned that the day of reckoning is fast approaching. Remember Wednesday, August 1. Departmental teams should now be in training for the fun run.

At the Pavilion Sports Shop there will be a tremendous bargain sale for one week only - July 9 to 15. Doors open at 8 am. Avoid the stampede!

Sweat Shirts (all colours and sizes) $9.99 each. University Ties (maroon and blue) $6.50 each. Track suits (University crested) $47.99 each. Track suits (uncrested) $39.99.

The University Open Squash Championships will be held at the University courts from July 7 to 15.

All staff, associate and ordinary members of the Sports Union are eligible to enter, with all grades catered for, including Novice events for beginners. Plate events will be run for first-round losers so everyone is guaranteed at least two matches.

The presentation will be held on the afternoon of the 15th, followed by a barbecue for players (free) and spectators (small cost).

Entry forms are available at the Squash Courts and the Sport and Recreation Office.

The 1984 Squash Intervarsity will be held at the University of Queensland from August 26 to 31.

Would any players interested in an enjoyable week of squash and social activities, please contact either Trevor Harvey (28 1833 b.h., 51 5902 a.h.) or Kim Colyvas (69 0620 b.h., 68 1374 a.h.) for further details.

During the May Vacation a hardy group of baseballers representing the University set forth to Sydney to do battle with four other universities to decide who would seize the winner's trophy.

The Newcastle lads performed well all week and off the field (especially the "boat" races). Unfortunately, we ran out of fire-power towards the end of the week as we only had the bare nine players required to field a side (our arms felt like jelly).

During the week we lost to Monash. Then we beat both Sydney and the eventual winners, Melbourne. We needed to beat New South Wales to make the final but the culmination of a big week was too much for the boys, losing to New South Wales. We were then beaten in the semi-final by Sydney so we had to be content with fourth place.

On the individual side of things, Paul Berry (Goz) was selected in the Australian universities side as relief pitcher. Three members (who will remain anonymous) forced their way into the "All Australian" side for their "unorthodox" performances during the week.

All in all, a good week was had by all and the weary Newcastle lads boarded the "Battlerstar" for their return journey to Newcastle well satisfied with the week's proceedings.

The Toronto Fun Run (10km) and the Tea Gardens Fun Run (12km) were both recently held. The best performed University runner in the Toronto Fun Run was the supremely fit Terry Farrell, who came second with a time of 31 minutes 36 seconds. The next University runner was John Martin who recorded 35 minutes 40 seconds, followed by David Firman with 36 minutes. Brian Morgan won the event in 31 minutes 18 seconds.

The Tea Gardens Fun Run was held on a flat, fast and poorly measured course, being substantially longer than the advertised 12kms. Best University runner was Albert Nymeyer, who recorded 42 minutes 36 seconds and came third. Also running in this event was Roger Peters from the Department of Psychology. He has recently joined the ranks of "fun runners" and is showing rapid improvement and lots of enthusiasm.

Congratulations must also go out to Terry Farrell who completely outclassed the field in the recent Queen's Birthday Orienteering Championships. This cements his place as the leading orienteer in Australia.
Advertisements

Laser Ghia, 5sp. Monza Red with beige velour interior. Features include: AM/FM cassette, alloy wheels, 32,000km. This car is in excellent condition. Asking Price: $8,400. All interested persons are requested to telephone 57 5574 a.h. or Extension 782.

Kodak Disc 8,000 Camera (owner won in competition). Any reasonable offer considered. All interested persons are requested to telephone Jenny Williams at Extension 761 or 45 32 a.h.

Snow Skis (one season old) 180cm Dynastar Pro, Salomon 637 bindings, Gipron Poles. Asking price: $200. All interested persons are requested to telephone Sue at 67 4006 a.h. or Extension 734.

Ford XB Panel Van V8, 4 speed, and is customised. Features include: cassette, factory air-conditioned, mag wheels and side windows, 65 Pack and many extras. This car is in excellent condition with 12 months registration, and is a real bargain at $3,300. To arrange for inspection please telephone 30 1506.


Formica dining table with four chairs (118cms x 70cms, brown in colour) $95. All interested persons are requested to telephone 55 9922.

Tweed Villas and The Cottages are available for renting from December 22 until February 17, 1985.

Enquiries are welcome and should be directed to Mr. Pat Mills at (066) 21 2267. Bookings may be made with Mr. Mills by telephone or by writing to: The Secretary, Northern Rivers College of Advanced Education, P.O. Box 157, Lismore, N.S.W. 2480.

The University Of Newcastle

The Drama Department requests all other departments receiving goods packed in polystyrene to contact James Jablonski at Extension 562 to pick up polystyrene for use in making props for student productions.

Accommodation Found

Ruth Ilmberger, of Gmund, in West Germany, who wrote to T: the Drama Department, requests props for student productions.

Holiday Accommodation

Northern Rivers College of Advanced Education is offering Tweed Villas and The Cottages for rental to University staff during the 1984/85 season.

Tweed Villas and The Cottages are situated in quiet rustic settings on the edge of the City of Lismore on the north-east corner of New South Wales. Within easy drive of the City is to be found some of the most magnificent scenery in Australia.

The Cottages comprise two three-bedroom Logan Units, also fully self-contained, and nestled in a quiet bush setting with extensive rural views.

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Australian Association of Gerontology

Professor John Hamilton, Dean of the Faculty of Medicine, will be guest speaker at the annual general meeting of the Australian Association of Gerontology on Monday, July 9, at 6 pm in the Staff House.

The title of Professor Hamilton's address is The Role of a Medical School in Gerontology.

The meeting will commence with drinks at 5.30 pm and is jointly arranged by the A.A.G. and the University's Department of Community Programmes. The lecture is open to all interested persons.

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Diary of Events

Monday, July 9, 1.10 pm
Eucharist for Engineering, Chaplaincy Office.

Monday, July 9, 6 pm
A public lecture will be given by Professor John Hamilton (Dean of the Faculty of Medicine) on the topic: The Role of a Medical School in Gerontology. Venue: University Staff House.

Tuesday, July 10, 1 pm
Lunchtime concert in the Union Courtyard featuring the Jazz group, Women and Children First.

Tuesday, July 10, 2 pm

Wednesday, July 11, Noon
German Feature Film: Einfach Blumen aufs Dach. Venue: Room A132 (McMullin Building).

Wednesday, July 11, 4 pm

Thursday, July 12, Noon
Movie: Kagemusha, Union Common Room. Donations accepted.

Thursday, July 12, 1 pm

Thursday, July 12, 6 pm
The History Club invites you to a Medieval Banquet to be held in the Purdue Room of the Great Hall. Cost: $6 (tickets may be obtained from the Secretary). Costume optional.

Friday, July 13, from 11 am
Autonomy Day (silly sports, "boat" races, bands, dancing).

Friday, July 13, 11 am
The Eighth Newcastle Lecture in Political Economy will be held in Room S101, Social Sciences Building. Professor A. Powell, Ritchie Professor of Economic Research, Melbourne University, will speak on Real Wages, Employment and Demand Management.

Friday, July 13, 7 pm
Annual Bastille Day Dinner presented by L'Université de Newcastle Club Français (French songs and entertainment) in the Great Hall. Tickets available for $8.50 per person. Please contact Extension 388.

Monday, July 16, 1.10 pm
Eucharist for Mathematics, Chaplaincy Office.

Tuesday, July 17, 1 pm
Lunchtime Concert in the Union Courtyard featuring Keys (band).

July 17 and 20
Department of History film screenings, For Love or Money, a documentary history of women at work. Room W07 Mathematics Building - 7 pm July 17; 2 pm July 20.

Wednesday, July 18, 4 pm

Thursday, July 19, Noon
Movie: The French Lieutenant's Woman, Union Common Room, Donations accepted.

Thursday, July 19, 1 pm