Two of the University's academics, Professor Graeme Jameson, from the Department of Chemical Engineering, and Professor Rob Evans, Head of the Department of Electrical and Computer Engineering, have been elected as Fellows of the Australian Academy of Technological Sciences and Engineering.

They were among 35 other Australians eminent in engineering, technology and science who were elected to the Academy this year. Both were approached about a year ago and were asked to suggest four supporters of the original nomination. All the nominations then went to a committee which made the final selections.

In electing Professor Jameson, the Academy cited his "individual achievement and leadership in technological science and engineering, specifically in the metallurgical and chemical industries including the invention, through basic research, the demonstration and development of the Jameson cell for fine coal and mineral processing which is now in commercial production and attracting worldwide interest."

In the case of Professor Evans, it acknowledged his "innovative contributions to both theory and practice relating to radar signal processing, broadband array processing, multi-target tracking and automatic control of uncertain and time-varying systems; an authority on high accuracy tracking control techniques encompassing sonar as well as radar tracking systems."

Working group to produce parking management plan

The Council has resolved not to proceed at present with the imposition of a parking fee.

Instead, it asked the Vic-Chancellor on October 18 to form a Parking and Traffic Working Group to bring to the Council an alternative plan for the management of traffic and parking on the campus no later than next August.

The Council acceded to all the recommendations made by the committee established to report on the proposal to introduce a car parking fee. Recommendations submitted by the University's Master Planners, the EJE Group, were not approved.

The group sought solutions to the University's parking problems by, among other things, providing more car parking by encouraging a greater turnover with restricted parking in certain locations and providing multi-level car parking.

The Parking and Traffic Working Group will include academic, non-academic and student members of the Council and will have the power to co-opt people with appropriate expertise.

It has been asked to report at the meeting of the Council next February on the manner in which the University's Timetable Committee has been able to reschedule the class timetable to effect a spread of classes over the five-day week and any other progress made on investigations into traffic and parking problems.

The committee of Council that examined the proposal to introduce a parking fee consulted widely with staff and student organisations and considered advice that had been previously given to the Council.

The committee reported that the University had accepted as part of the Master Plan that more car parking spaces were needed. No more flat land was available for car parking and, therefore, a multi-level car park had been proposed.

The issue of access and equity was raised and...
members of the committee noted that many students travel long distances to attend University.

"Many are single parents who have to drive in order to drop children at childcare and students in some courses, the BA (Visual Arts) for example, have to bring large quantities of equipment to the campus. The students have no choice but to bring cars onto the campus and may not be able to afford the proposed parking fee.

"It was seen as preferable for the University to introduce controls on the number of cars coming onto the campus immediately as an alternative to building a car park, which would be a short term solution.

"Members of the committee noted that measures such as introducing a genuine five-day teaching week and the improvement of public transport links, including the establishment of a railway station at Warabrook, would have an effect on the extent of the problem.

"Another issue is the decision to be taken in the near future on the eventual size of the campus, which would establish the amount of parking required.

"It is felt that Council should not be asked to give approval to the introduction of a parking fee and the building of a multi-level car park until it is satisfied that there is no satisfactory alternative.

"One concern identified by the committee is that parking should not be considered in isolation from an overall transport strategy, or from the strategic planning exercise.

"In developing a transport strategy, expert advice should be sought," the committee said.

"The EJE Group said in its report that the University was at a crossroads in respect to carparking and it must take one of three choices.

"To allow the extent of illegal parking that currently existed was not considered to be an option.

"The group said that as outlined in the Master Plan 1990 the best way to provide more spaces was via multi-level car parking structures, providing more spaces over the existing car parking footprint. It was very clear that a parking levy on a user-pays basis was the most likely way to finance the parking structures.

"The second choice was to limit the number of cars allowed on campus.

"The third choice, the Master Planners said, was to provide further temporary car parking at ground level. This would further intrude into the already degenerated bush and appeared to be a choice made in the absence of a longer term vision.

"It was inevitable that the University would eventually be forced into providing multi-level car parks or restricting the number of carparks on the campus.

Mr Richard Owens said he believed that before the Council did "something dramatic" it should better manage traffic and parking on the campus.

He said that before he agreed to EJE's recommendations he had to ask to what the university's population would increase, what improvements would be made by changing the teaching timetable to a five-day week, and what effects the suggested campus shuttle bus and the proposed railway station would have.

He questioned the fairness of allowing some staff to park "so close to their departments."

When the Chancellor Justice Elizabeth Evatt, asked if people who parked illegally around the university were fined, the Vice-Chancellor, said that parking was getting out of control and past methods were not longer appropriate.

Mr Bill Warren expressed the view that people would not park illegally if the University enforced parking regulations and made a conscious effort to fine those who did not comply with them.

Mr Vic Levi said that the committee, after devoting a lot of time to considering the proposed parking fee, decided that the predominate need was to look at parking in the context of a total management strategy.

He said Mr Owens was right - many people parked close to where they worked or studied.

With a shuttle bus available, people would use parking areas located right across the University.

Mrs Susan Rappell said she agreed that the Council should investigate the management practices that could be applied to controlling carparking.

She said she had not been able to park near the Hunter Building, because most spaces for cars were quarantined for use by members of staff.

Professor Morgan suggested that an old committee not be reactivated when the Parking and Traffic Working Group was formed. The group should do a particular job and operate under guidelines which included a sunset clause.

October Council

The Chancellor welcomed Ms Marion Williams when Council met in the Purde Room in the Great Hall on October 18. Ms Williams was elected by students in a postal ballot for a further term as student member of the Council from September 1, 1991, to August 31, 1992.

Council was informed that it would be given regular progress reports on the development of a strategic plan for the University.

The Vice-Chancellor said that a Strategic Planning Task Force (SPTF) would be established to provide a structure for the work of overseeing the development of a strategic plan initially for the period 1992-2005.

Professor Morgan said an essential component of the procedures was to ask Schools and Faculties to begin discussions on their own plans in terms of where they would like to be at the turn of the century.

He said the SPTF would adopt an iterative approach based on regular meetings with the Deans and Directors, who would have prime responsibility for encouraging wide participation by members of the University in discussions at all levels and coordinating the work of the Schools and Faculties in providing input.

The Task Force would establish committees or ad hoc working groups as necessary and determine target dates for the various stages in the process, keeping in mind the wish of the Council to receive its first progress report at its December meeting and a more substantial report at its meeting next April.

The first iteration, Professor Morgan said, would be to review two documents sent to Schools and Faculties requesting responses to questions about courses, students, academic staff, the University's size, academic leadership, strengths and weaknesses and options.

The Chancellor wished the Strategy Group, through the Deputy Vice-Chancellor (Planning), Dr Doug Huxley, success.

Because the Commonwealth Government had not provided adequate funding for the development of academic programs on the Central Coast Campus, the campus at Ourimbah must be perceived for the next few years as an outpost rather than an embryo university standing on its own.

The Deputy Vice-Chancellor (Academic), Professor Michael Carter, told the Council that the crux of the problem facing the University in relation to the Central Coast Campus was whether the Department of Employment, Education and Training (DEET) would recognise the fact that starting a new campus could not be achieved with marginal funding.

It was reported that the Vice-Chancellor had sent a letter to DEET which said that establishment of a Joint Working Party by the Commonwealth and the State had led to the submission of an

Continued on page 16
Student Elected to NSW Youth Council

Election to the New South Wales Youth Council will mean a busy time ahead for one second-year Communication Studies student over the next two years.

Claire Edwards, 21 from Toronto, is one of 12 people on the Council, six of whom are under 25 years of age who will be advising the Premier, Mr Greiner, on youth issues. She was one of four new members elected from a list of 110 nominees.

Claire, who is looking forward to her new role, said the Council meets once a month in Sydney to discuss a wide range of subjects which include many of the problems affecting today's young population.

After attending her first meeting she said she was impressed with the candour with which these subjects were discussed.

"It was great. If we can pursue the problems affecting young people today with honesty, then we will be able to do something about them," Claire said.

In a busy student's life, Claire also manages to combine her studies with editing the Newcastle Diocese Anglican Youth Magazine Link and also belongs to an Anglican Youth Movement. She plans to expand her interest in writing by taking part in a sub-committee which will produce human interest stories on youth and youth issues.

Art Students Gain National Recognition

Two groups of art students are on top of the world after gaining national recognition for their work in the disciplines of graphic design, photography, painting and illustration.

One group has just won major prizes at the First National Student Art and Design Exhibition in Melbourne while the second has had its illustrations of 56 butterflies and native flora published as a poster in the current edition of 'Australian Geographic'.

Nineteen universities and colleges were represented at the national exhibition, Newcastle having the largest contingent with 74 students submitting art works from 10 disciplines.

The three students to receive prizes for excellence were:

- Teresa Attfield, a third year student in the Bachelor of Arts (Visual Arts) for three colour photographs entitled 'Koori'
- Danny Giles, a Graduate Diploma in Art students for his painting entitled 'Spine Lamenectomy'
- Colin Lockhart, a second year student in the Bachelor of Arts (Graphic Design) for his video animation story board.

Curator of the University's work, David Cubby, said the Newcastle students sold more work than other exhibitors and that Newcastle presented a well-received, comprehensive and successful exhibit.

He said the three winning students each received $250 of supplies from one of the sponsors, Chroma Acrylics Pty Ltd, in addition to a certificate to recognise their achievement.

The printing of the poster in 'Australian Geographic' is the culmination of months of planning and co-ordination for Illustration Lecturer, Andrew Atkins. Andrew was approached last year by the magazine to co-ordinate the project that would eventually involve 14 students working on illustrations outside their normal lecture load.

Andrew is renowned in Australia for his taxonomic illustration and is currently on study leave in Britain where he is investigating skipper butterflies held by the British Museum.

The poster, which is a loose leaf insert the nature magazine, includes the work of students Genevieve Wallace, Jeffrey Nagle, Angela Waller, Amanda Wilson, Gina Ogrodink, Nicole Moore, Dean Ruddy, Susan Haywood, Karen Woodens, Peta Edwards, Penelope Johanson, Jayne Kenyon, Sandra England and Vanessa Ashman.

Final work was submitted late last year when the students were in either the second or third year of the plant and wildlife illustration specialisation of the Bachelor of Arts (Visual Arts) course. Colours and detail had to be exact to meet guidelines set by the magazine which works months in advance of publication dates because of its comprehensive checking of information and illustrations.

One of the Greatest Works in the World!

The Newcastle University Choir is performing Beethoven's magnificent Missa Solemnis on Saturday, November 30.

The orchestra for the occasion is the Hunter Orchestra (whose Musical Director is Roland Peelman), conducted by Peter Brock.

There will be four eminent soloists singing with the Choir and a night of great beauty is promised. The performance will be in the Great Hall commencing at 8 pm.

Details of ticket prices and booking venues are available by telephoning Phyllis Robson on 63 2237 or Marie Tietze on 63 2774.
2NUR-FM Wins Two National Awards

The Hunter Region's only community-based radio station, 2NUR-FM, has just won two national awards at the annual conference of the Public Broadcasting Association of Australia (PBAA).

One of the awards has gone to the station's manager, Brett Gleeson, who won the 1991 Qantas Award for Excellence in Public Broadcasting. The award will enable Brett to undertake a study project in America to evaluate volunteer management techniques used by USA community radio stations.

The second award was in the programming section where 2NUR, located in the Mathematics Building, won the 'BASF Award for Best Station Promotion'.

The awards were presented at the 19th Annual Conference of the PBAA which were held in Albury. More than 250 delegates representing public and community radio stations from throughout Australia attended the conference and award presentations.

The President of the World Association of Community Broadcasters (AMARC), Mr Michel de Lorme, of Quebec, presented Brett with his 1991 Qantas Award.

In accepting the award, Brett said that volunteers were the most important resource of any community radio station.

"Our volunteers give so much and all managers need to ensure that they are looked after in the best possible way," said Brett. "This project will allow me and the public broadcasting sector to learn from the American's 70 years experience in managing the volunteer workers in their stations."

This is the second time that Brett has won the Qantas Award for Excellence. The previous occasion being in 1988 when he travelled to America to study fundraising techniques for public radio. Brett's report on the study tour was published by the PBAA and is used extensively by the 109 public radio stations in Australia.

2NUR has now won the Qantas Award in three of the five years it has been presented. The station's program manager, Steve Ford, won the award last year and travelled to Canada for a study tour. The 1989 winner, broadcast technician, Chris Burnat, has since joined the 2NUR staff.

Steve Ford accepted the BASF Award in Albury and acknowledged the talent and skills of 2NUR breakfast presenter, Graham Wilson, and volunteer, Merilyn Hey, who jointly produced the promotion, entitled 'Jeeves and My Lady'.

If you want to catch the promotion, which comprises 17 exciting sagas, tune to 103.7 on the FM Band to pick up 2NUR.

Professor Presents Oration in Melbourne

The Silver Jubilee Meeting of the Australasian Society of Blood Transfusion and the 29th Meeting of the Haematology Society of Australia held at the World Conference Centre, Melbourne recently was addressed by well-known Newcastle academic and Professor of Biological Sciences, Professor Barry Boettcher.

Professor Boettcher presented the ASBT Ruth Sanger Oration. The title of the oration was "Red Cell Antigens - from Serology to Molecular Genetics".

The oration was established in honour of Dr Ruth Sanger, FRS, a graduate of Sydney University, whose interest in human blood groups took her to London to work with the late Dr Robert R. A. R. Their text, "Blood Groups in Man" is still considered the authoritative text in the field. In the period from 1950 to 1975, it passed through six editions.

This year, for the first time, Dr Ruth Sanger, who has now retired, attended the Scientific Meeting and was present during the oration. At the conclusion of the oration, Professor Boettcher and Dr Sanger were presented with gold medals by the President of the Australasian Society for Blood Transfusion, Dr Tony Keller. Dr Keller was formerly the Director of the Newcastle Blood Bank and is currently the Director of the Red Cross Blood Transfusion Service in Perth.

At the Conference, Professor Boettcher also presented the Len Wisdom Memorial Lecture entitled "The Molecular Biology of the H, A and B Blood Group Determinants". This memorial lecture is in honour of Mr Len Wisdom, who was Director of Tuta Laboratories, the company which produces consumable items associated with blood banking and blood transfusion. In particular, Tuta Laboratories, under Mr Wisdom's guidance developed and have continuously improved the plastic bags which are now used routinely in Australia's blood banks and hospitals.

During a busy week, Professor Boettcher addressed interested scientists at a breakfast meeting on the blood evidence in the Chamberlain case. Additionally, he spoke to the Victorian Immunohaematology Discussion Group on the studies that he and his students have conducted on Australian Aborigines. The topics covered during a wide-ranging talk varied from the capacity of Aborigines to digest starch and the alcohol metabolising capability of Aborigines, to undertaking studies of genetic markers to verify pedigree records and the carriage of the Hepatitis B virus by Australian Aborigines.
Donation to aid OFC Research

Research into undergraduate study trends by former Open Foundation Course students will come to fruition thanks to a $1,000 donation by the Students' Representative Council (SRC) to the Department of Community Programmes.

The Director of Community Programmes, John Collins, said it had been a long held wish to research undergraduate courses taken by OFC students and that the donation would allow the work to be undertaken.

"We then hope to use the results to prepare a submission to the Department of Employment, Education and Training and other sources for possible funding of the Open Foundation Course," said John.

The President of the SRC, Matt Cantrell, presented John with the donation after the Council voted at a recent meeting to support the work of the Department of Community Programmes in its endeavours to make tertiary education accessible to more people.

"The SRC has been heavily involved in the areas of health and the environment but student welfare is another important area and the Council decided to make the donation to Community Programmes as part of its ongoing commitment to the University," Matt added.

The Department of Community Programmes has about 1,100 people on its mailing list for the 1992 OFC compared to 450 this time last year.

"More and more people are finding out about the course and it's important that we carry out the research to find where former OFC students have gone in respect to undergraduate study," said John.

"The research is something we have been wanting to do for many years and the SRC donation is greatly appreciated, especially if we are able to prepare submissions for future funding."

Volcanoes in the Sea

The attraction of Hawaii's volcanoes has captured the imagination of a group of Newcastle people who will visit the islands next January thanks to a study tour organised by the Department of Community Programmes.

The eight day tour, which will be led by the Department's Lecturer in Earth Sciences, Joe Whitehead, will take in the islands of Oahu, Maui and Hawaii during which the group will visit some of the world's most spectacular volcanic scenery and landforms.

Joe said 10 people "from across the spectrum, young and old, professional and amateur" had so far booked seats on the tour which leaves on January 16.

"The recent volcanic activity in Japan and the Philippines has caused a lot of interest and the tour is very attractively priced when you consider we will be visiting active volcanic and geothermal areas in addition to relaxing on Waikiki Beach!" said Joe.

The group will be guided by experienced field geologists and members will investigate and interpret at close quarters perfect volcanic cones, cracks, fissures and active lava flows. Historical sites and the Mauna Kea Science Reserve International Astronomical Observatory will be visited during the tour.

Joe said the group was eagerly looking to the tour and that bookings could still be taken if people were interested in the trip. A pamphlet giving full details of the tour is available from the Department of Community Programmes (Ext 5551 and 5556).

NOTICE

The Student Division Information Counter will be relocated to the Ground Floor of the Chancellery Building from Monday, November 4, 1991.

The new Chancellery building is located in the centre of the University campus opposite the Engineering complex.

"Memory" November 3 to November 11, at Watt Space Gallery, 11 Watt Street, Newcastle.

Memory is a multi-media exhibition presented by Bernadette Smith at Watt Space Gallery from 3rd to 11th November. Memory is of vital significance to the Newcastle Art Community, presenting as it does a dynamic summary of the past eight years of Bernadette's genres and tracing her development from her early days of art practice in Newcastle.

"Looking back over the years I see that art has been like a great big movie, with protagonists, bit parts, suspense, climax, denouement and an ending that resists closure. We laughed, we cried, we anticipated, were disappointed and were sometimes amazed and dismayed. Then we went home beyond caring while the band played on.

From art about the "rightness of form" to art about the wrongness of formalism to social issues and deconstruction to post-something or another or was it Australia Post? I guess we had some fun along the way."

Bernadette Smith.

Gallery Hours: 12 noon to 6 pm every day.

BULLETIN 5
Goethe Institut Prize

The German Consul-General, Dr Dieter Gescher, made his first visit to Newcastle recently to present the Goethe Institut Prize for German Studies to student, Mr Ralph Raindler.

Mr Raindler, from Allandale, is completing his Honours studies this year. He has already spent three months in Germany with sponsorship from the Germania Club, including two months of study at the Goethe Institut at Göttingen.

The Deputy Vice-Chancellor (Planning), Dr Huxley, said in congratulating Mr Raindler that as well as learning the German language, he could now understand what was needed to excel in a chosen field and the feeling of satisfaction that excellence could bring.

Dr Gescher commended the example of Goethe himself, who was well known in his lifetime as much more than a writer. He said that Mr Raindler should similarly not confine himself to one field, but take advantage of the position he had attained to explore more of the world of ideas.

Mr Raindler said he planned to visit Germany again after finishing his Honours year, with a view to teaching there. His previous visit, coming as reuniification was beginning, had been very exciting and he was looking forward to returning.

New Degree in Social Science for 1992

A new undergraduate degree which will cater for students interested in focussing their studies on the techniques of social science, will have its first intake next year.

The Bachelor of Social Science is being introduced by the University to meet a wide range of occupational areas for graduates with skills in social research, policy analysis and social planning and to bring the insights of social science to their work.

The degree program will have major streams of study chosen from the seven areas of economics, geography, history, linguistics, psychology, sociology and statistics. In addition, students will be able to select other subjects from across the University's offerings provided they have the necessary prerequisite subjects.

Dean of the Faculty of Social Science, Professor Lois Bryson, said that under the degree program many students would not choose their fields of interest until after the first year. However, initial selection should be made in light of probable direction of their later subject interests.

"For example, a student interested in urban planning would be well advised to include sociology and geography subjects," said Professor Bryson. "A person interested in specialising in social research would be well advised to include statistics and sociology."

Other possible combinations are history, economics (possibly industrial relations) and sociology for people interested in work or the workplace while specialising in psychology and linguistics would assist those people interested in language in its social and psychological context.

Professor Bryson said the Bachelor of Social Science would be offered over three years of full-time study.

"The course has just been approved by the University Senate and as a result has not been included in the Universities Admissions Centre information guide, which is of critical importance to current Year 12 students," she said.

"As a result, application forms are obtainable from the University by telephoning (049) 216526 and these should be lodged by January 3 next year."

Literature Grant for Author

The Literature Board of the Australia Council has announced a Writer's Project Grant of $6,000 to the Newcastle author, Christine Mangala Frost, to assist with the completion of her second novel, Transcendental Pastimes.

Christine Mangala who lectures on Hinduism for 'Pardigesimal Studies' is a member of staff of the University's Faculty of Arts.

Her first novel, The Firewalkers, which is set in South India and deals with the conflict between Christian and Hindu ideas, was launched recently in aid of World Vision. The book is currently available from Hunter Street Books, the Church Army Bookshop and the Co-op Bookshop on campus.

The new novel, for which the grant has been awarded, is a religious study done by a television camera crew who go from Australia to South India to investigate a guru who claims to remember all his previous incarnations.
Gala Nursing Dinner

A Gala dinner was held recently to celebrate the establishment of the Faculty of Nursing within the University.

The highly successful dinner, held in the Brennan Room of the University was attended by nurse academics, administrators and practitioners from throughout the Hunter Region.

The organising committee chaired by Area Director of Nursing, Miss Margaret Marks, and made up of representatives from the University, hospitals, city and rural and community health, invited Mrs Mary Chiarella to be the guest speaker.

Mary Chiarella, RN, DNE, LLB (Hons) has experience in many fields of nursing, and an ongoing interest and commitment in Law and Ethics. She was a member of the Ethics Committee of the School of Tropical Medicine at the University of Liverpool and is currently a member of the Nursing Ethics Working Party of the College of Nursing, Australia and the Post-Graduate, Research Ethics Committee of the Australian Catholic University. Mrs Chiarella, who is currently reading for a PhD in Law at the University of New South Wales gave an insightful talk entitled "Bridging the Gap - Reality and Responsibility in Clinical Practice" in a very entertaining delivery.

As a result of this significant and successful function, it has been suggested that a dinner to celebrate and honour nursing become an annual event in the University Calendar.

Pictured at the Nursing Dinner are (from left to right) the Area Director of Nursing, Miss Margaret Marks, Mrs Mary Chiarella, the Director of Nursing at John Hunter Hospital, Ms Sue Rappell and Dean of the Faculty of Nursing, Ms Margaret McEnery.

Campus Scamper

The 1991 Campus Scamper attracted a large field of competitors who decided that their lunch hour was well spent running, jogging or walking around the campus.

The six kilometre course for serious runners and an easier course for walkers and fun joggers provides a challenge each year and this year proved no exception.

Our photos show the start and the finish. By the way, the winner (pictured right) was Mathematics Lecturer, Malcolm Roberts.

Centre for Nursing Research & Practice Development

Opened at University

A Centre for Nursing Research and Practice Development has been opened at the University by one of the U.S.A.'s most highly regarded nursing theorists.

Professor Rosemarie Rizzo Parse, who is Director of the Centre for Nursing Research at City University in New York, opened the Centre and also delivered its inaugural seminar.

Her seminar entitled 'Nursing Knowledge as a Guide to Practice and Research' was enjoyed by an audience of registered nurses who heard about the latest developments in their profession regarding nursing knowledge and research.

Wanted !!

Orchestral Players for

The Novocastrian Arts Orchestra

A non-professional permanent orchestra playing classical and pops concerts, and for musicals, operetta, opera and oratorio.

A reasonable standard of playing and musicianship is expected.

For further information please contact Richard Heath on Ext. 5958 or Ext. 5971.

OPUS QUESTIONNAIRE

OPUS is preparing its 1992 Alternative Handbook and would like to have back all questionnaires that were distributed to current first year students. The questionnaires can be returned by either posting them to OPUS or dropped in a specially marked box outside the SRC.
**Major Research Grants**

The University of Newcastle has demonstrated the quality of its research programs by attracting almost $5 million in grants awarded in competition against other Australian universities by the National Health and Medical Research Council and the Australian Research Council.

ARC grants announced in October will bring the University $2.191 million in 1992, a substantial increase on the 1991 figure.

New money for 1992 from the National Health and Medical Research Council comes to $814,000 compared with $481,000 for 1991.

Taken with grants that continue from previous years, this indicates a total funding from this source of nearly $2 million, according to the Dean for Research, Professor Ron MacDonald.

And the University has been awarded $625,000 by the ARC towards the cost of large and expensive pieces of research equipment, with the highest number of successful equipment applications of any university in the country.

A highlight of the grants is a Special Investigator Award - one of only eight in Australia - to Professor Graeme Jameson, from the Department of Electrical Engineering, for his work on the recovery of minerals by flotation.

Minerals worth about $1 billion are recovered by flotation in Australia every year - but the existing technology means a further $150 million worth are lost. Professor Jameson hopes to introduce into the recovery process the way bubbles can be created on the relevant particles in flotation is directed towards maximising the efficiency of the process.

For his previous work on flotation, including the development of the Jameson Cell, Professor Jameson was awarded the CSIRO medal in 1990. Together with Professor Rob Evans, of Electrical and Computing Engineering, he has also been elected recently to the Australian Academy of Technological Sciences.

The highest award in dollars made by the ARC - $264,000 for 1992 - is to Professor MacDonald and his colleagues in the Department of Physics, Dr John O'Connor and Dr Bruce King, for their studies on ion-surface interaction, a major technique in surface analysis and modification.

Associate Professor Brian Fraser and Dr Fred Menk, also of the Department of Physics, will receive $170,000 in 1992 for their studies of plasma waves, in particular the transfer of energy entering the geospace environment through to low latitudes.

This involves operating two large arrays of ground magnetometers. The east-west array will make use of instrumentation established in Australia during a major international program, thus permitting detailed studies of the energy transfers while contributing to the global program.

Professor Robert Antonia and Professor Bert Brownie, of Mechanical Engineering, have been awarded $112,000 for their studies of turbulent shear flows, which could lead to improved methods of heat transfer, substantial savings in energy and the more efficient dispersal of pollution.

Dr Jean Gore of Educational Studies, will receive $40,000 in 1992 for a project of more than passing interest to teachers and students. She will be examining the disciplining of bodies, which will test some of the central ideas of Michel Foucault and apply them to a major sphere of human activity.

Professor lan Raeburn, who was appointed Professor of Mathematics this year, has won $55,000 to study problems in Topology, 1992-93, to further the studies of Topekists operators associated non-commutative $C^*$-algebras, which he believes could have a fundamental role in the new fields of non-commutative analysis and topology.

An innovative marriage of technology and electrophysiological and behavioural - will be used to study visual perception by Professor David Finlay, head of Psychology. Doctor McElwain, of Mathematics, and Dr Mark Manning, a former PhD student at Newcastle now working at the University of Western Australia, in a project granted $90,000.

The importance of coal as an export for Australia has led to considerable research. The fluorescence of coal macerals is one quality which correlates well with all the technologically important qualities of coal, so it might be possible to identify the right coal for particular purposes.

But there are anomalies in its fluorescence. A grant of $116,000 has been made to Professor Claus Diesel, of Geology, for a study of these anomalies and the development of an empirical base for standard fluorometric analysis.

A grant of $108,000 will enable Professor Rob Melchers, Associate Adrian Page and Mr Peter Kleeman, of Civil Engineering, to look at the criteria for the cracking of structural masonry and reinforced concrete slabs. While the mechanics of cracking are understood, the researchers want to look at how the behaviour of foundations relates to the size of cracks.

A method of comparing styles of writing, discovered by Professor Emeritus John Burrows, which could be used to identify forgery, plagiarism or the writer's and recipient, has attracted a grant of $32,000 for 1992.

Professor Burrows, with Associate Professor Wayne McKenna and Dr Hugh Craig of the English Department, wish to refine the system, which has gained widespread recognition all over the world; many who want to distinguish between writing from different eras, genuine texts and revisions or imitations.

Professor Godfrey Tanner, Dr Bernie Curran and Dr Charles Penghale, of the Classics Department, will receive $260,000 for their study of Anatolian and Mesopotamian influences on Greek material culture.

Among the new grants is a faint hope for a number of cancer-related studies.

Professor John Forbes, of Surgical Oncology, will receive $35,000 for his work on treatment of node-negative breast cancer; Professor Gordon Burns, of the NBN Electrophysiology and Neurological Studies, $280,000 for their study of atrial and ventricular arrhythmias.

A special initiative area grant has been made to Dr Nigel Reuben, for a community study of non-steroidal anti-inflammatory drugs and their connection with acute renal impairment and cardiac failure.

Associate Professor Roger Smith's study of the placentae and the placental corticotrophin-releasing hormone will bring significant grants of funding over the next three years, with $95,000 in 1992.

ARC PROJECT GRANTS

**SPECIAL INVESTIGATOR AWARD**

Professor G.J. Jameson, in Fluid and Particle Mechanics $150,000.

**NEW GRANTS**

Assoc. Professor C.F. Diesel, An Investigation of Vitritine and Inertinite Fluorescence in Relation to the Ages and Depositional Environments of the Host Coals, $116,000.

Professor D. Finlay, Dr D.L.S. McElwain and Dr M.L. Manning (WA), Electrophysiological and Behavioural Studies of Visual Perception Incorporating MRI and Dipole Modelling, $60,000.

Assoc. Professor B.J. Fraser and Dr F.W. Menk, Plasma Wave Studies, $170,000.

Dr J.M. Gore, Pedagogy and the Disciplining of Bodies: an Ethnographic Exploration of Disciplinary Power in Three Pedagogical Sites, $40,000.

Professor G.J. Jameson and Assoc. Professor R.H. Welland, Bubble-Enhanced Sedimentation, $52,000.

Dr G.A. Kuczera, Dr B.J. Williams and Dr W.G. Field, Estimation of 100-Year Flood Levels in Tidal Areas, $38,000.

Dr G.A. Lawrence and Dr M. Maeder, Polyamines and Polyamines Acids with Additional Pendant Donors: Cation and Anion Co-ordination Chemistry, $36,000.

Professor R.J. MacDonald, Dr D.J. O'Connor and Dr B.V. King, Ion-Surface Interaction Studies, $254,000.


Assoc. Professor G.E. Murch, Theory of Vacancy Thermodynamics and Concentrations in Alloys, $45,000.

Professor I. Raeburn, Toepilit Operators and Crossed Products of $C^*$-Algebras, $53,000.

Professor I. Raeburn, Professor G. Brown (UNSW) and Professor C.E. Sutherland (UNSW), Dynamical Systems and Inductive Structure,
$69,000.
Dr C. Rodger, Prefertilization Maturation of Marsupial Gametes, $98,000
Dr S. Sun and Professor G.R. Belton (BHP), Interfacial Rates of Gas Reaction with Mole by Oxides and Metallurgical Slag, $37,000.
Professor T.F. Wall and Mr A.G. Tate, The Burning Characteristics of Individual Particles of Solid Fuels, $51,000.

RENEWAL GRANTS


Dr C. De Souza, Dr M. Fu and Dr R.M. Middleton, Analysis and Design of Robust Control Systems, $50,000.

Dr R.A. Heath, Non-linear Models for the Storage and Recall of Complex Spatiotemporal Sequences, $31,000.


Professor C.A. Hooker, Reason and Science: a Critique of Reason as Normal Structure and Assessment of Naturalistic Alternatives as Based on and Applied to Scientific Research, $24,000.

Professor R.J. MacDonald and Dr B.V. King, Interface Phenomena in Epithelial Growth of Thin Films, $30,000.

Professor W.F. Pickering, Speciation of Inorganic Species present in Waterway Systems, $30,000.

Professor H. Schröder, Dr B. Beresford-Smith and Dr B. Pham, A Mathematical Morphology Machine for Image Processing, $40,000.

Dr S.W. Sloan and Dr D.W. Smith, Accurate Algorithms for Elastoplastic Models in Geotechnical Analysis, $37,000.

Professor R.G. Tanner, Dr B.F. Curran and Dr C.E. Pengelise, Oriental Influences on Greco-Roman Religion, $20,000.

Assoc. Professor R.H. Weiland, Carbon Dioxide Removal by Mixtures of Amines, $32,000.

Dr D.H. Wood and Dr P.D. Clausen, Measurements in Three-Dimensional Turbulent Flows, $33,000.

CONTINUING GRANTS (indicatively funded projects)

Professor R.A. Antonia and Dr L.W. Browne, Transfer Processes in Turbulent Shear Flows, $112,100.

Dr J. Chulow and Professor R.C. Jones, Mechanisms of Water- and Electrolyte Reabsorption from the Ductuli Efferentes Testis of the Rat, $38,100.

Dr W.J. Collins and Assoc. Professor R. Offer, Contrasting P-T-T Histories in the Tia Complex, Southern New England Fold Belt, $38,100.


Professor M.G. King and Assoc. Professor A.J. Husband, Behavioural Conditioning of Immunity, $45,900.

Professor R.E. Melchers, Assoc. Professor A.W. Page and Mr P.W. Kleeman, Cracking in Masonry and Reinforced Concrete - a Study in Structural Serviceability, $108,600.

Dr C.E. Offer, Cellular Pathway of Short-distance Transfer of Photosynthates in Fleshy Fruits, $35,200.

Assoc. Professor J.W. Patrick, Pathway and Mechanism of Photosynthetic Unloading, With Special Reference to the Role of Transfer Cells, $46,600.

Professor I. Raeburn and Professor C.E. Sutherland (UNSW), Algebraic Methods in Modern Analysis, $56,200.

Professor P.V. Smith, Theoretical Studies of Adsorbates on Semiconducting Surfaces, $51,000.

NH & MRC New Project Grants

Dr S. Bunn, The Role of Inositol (1,4,5) Trisphosphate in the Adrenal Chromaffin Cell, $43,060.

Professor G.F. Burns, Analysis of an Integrin Accessory Molecule, gp88, $56,900.

Professor G.F. Burns, Identification of an Alternative Ligand for the Vitrocin Receptor, $61,951.


Professor D. Finlay, Perceptual and Cognitive Processing in Control and Brain-damaged Subjects, $31,704.

Professor J.F. Forbes, Clinical Trials for Prevention and Treatment of Breast Cancer, $95,280.

Assoc. Professor J.A.P. Restas, Molecular Mechanisms of Non-steroidal Maturation: A Model of Synaptic Plasticity, $95,238.

Dr A. Sim, The Regulation of Protein Phosphatases in the Brain, $58,284.

Assoc. Professor R. Smith, Placental Corticotrophin- Releasing Hormone, $95,716.

Professor W.A.W. Walters, Human Placental Oxygen in High Blood Pressure of Pregnancy, $44,159.

Equipment Grant

Dr J.W. Heath, Transmission Electron Microscope: EDS X-Ray System, Cold Specimen holder, $44,000.

Priming Project Grant

Dr P.L. Hazell, The Role of Mental Effort in Achievement-Deficit Hyperactivity Disorder. $56,819.

Special Initiative Area Grants

Dr Afaf Girgis, Evaluation of Health Record Booklets in Changing Preventive Behaviour, $55,265.


Continuing Project Grants

Dr M.V. Agrez, Characterisation of the Interaction Between Colonic Epithelium and Fibroblasts, $35,082.

Professor G.F. Burns, Structural and Functional Characterisation of a Novel Integrin Beta Subunit, $116,941.

Assoc. Professor I.A. Chahl, Effect of Morphine on Substance P Neurones in the Central Nervous System, $50,151.

Professor R.L. Clancy, Determinants of Infection in Subjects with Chronic Bronchitis, $72,043.


Dr P.G. Gibson, The Role of Airway Inflammatory Cells, Adhesion Proteins and Cytokines in Asthma, $41,229.

Assoc. Professor A.J. Husbands, Helper Cells, Cytokines and Mucosal Immune Regulation, $58,480.


Dr I.A. Kennard, Psychological Factors in the Onset of Panic Attacks, $17,855.

Dr L.G. Olson, Mechanical Properties of the Upper Airway in Man, $42,189.

Dr A.W. Quail, Carotid Chemoreflex Control of Regional Coronary Conductance, $47,554.

Dr Y.C. Smart, Functional and Structural Analysis of an Antigen on Natural Cytotoxic Cells, $76,430.


Professor S.W. White, Studies on the Thoracic Circulations: Control of Bronchial and Coronary Conductance, $64,503.

Continuing Special Initiative Grant

Dr S. Redman, Patient Participation in Treatment Decisions for Menstrual Symptoms, $52,751.
Radio Phones Provide Better Communication

Modern technology has come to the aid of the University Patrol Services with the introduction of new radio phones to provide better communication across the campus in cases of emergency and after normal business hours.

Four units—three mobile hand-held units and a fourth installed in a security vehicle—have resulted in improved lines of communication between patrol officers and staff and students.

According to the Manager of Patrol Services, Peter Boyd, staff and students were having difficulty in contacting patrol personnel, especially after 9pm when officers were on their normal rounds on the University campus.

"The radio phones have been purchased to assist in cases of urgency and can be contacted by telephoning 215888 through external telephone lines or on extension 5888 if ringing internally," said Peter.

"The new service is only to be used for urgent messages when patrol officers cannot be contacted on the normal telephone number of 215729 at the Great Hall or on 215728 at the Library Patrol Office, both of these numbers having a recorded answer facility."

"It's important for staff and students who want to contact Patrol Services for any day-to-day matters to use our normal numbers so as not to engage the emergency telephone line."

Under the new system a person who telephones the emergency number will be connected to the Patrol Services via the two-way radio phone system.

"A caller should be aware they will be talking on a two-way radio from their telephone and that they cannot talk at the same time," Patrol Officer Peter said. "It's similar to using a CB radio and only one person at a time can speak."

Callers may experience a delay of a few seconds at the start and finish of transmissions as the radio phones cut in and out of the radio phone base station.

Professor Gains Environment Research Trust Grant

Well-known environmentalist and stalwart of the Shortland Wetland Centre Professor Max Maddock, has received an important research grant which will enable him to continue studies of waterbirds currently being carried out.

Professor Maddock of the University's Department of Education, has been awarded the Research Trust Grant for his project which is looking at the breeding biology, ecology and migration of the waterbirds and is being carried out through the Wetland Centre at Shortland.

The grant is for a three year period with $30,000 allocated for the first year, with provision for increased amounts in subsequent years. The money will be used to provide research and clerical assistance and to service field observers.

The research project began at the Shortland breeding colony in 1981 studying Great, Intermediate, Little and Cattle Egrets and became known as Project Egret Watch after the formation of the Hunter Wetland Trust in 1985. The work also began at the Seaham Swamp Nature Reserve colony. Since then patagial tags have been attached to the wings of birds at both colonies to identify individual birds for studies of breeding behaviour and breeding success needed to trace their migration patterns.

Professor Maddock says the project has recently been extended to tagging ibis and spoonbills nesting in the same colonies as egrets and pelicans.

He says a team of bird banders registered with the Australian Bird Banding Scheme (Australian National Parks and Wildlife, Canberra) is operating with him in the banding and tagging of the birds and over 200 volunteers observers through Australia and New Zealand are carrying out field observations of the birds along migration routes.

He says the egret colonies are at Bracken Ridge, near Brisbane, Murwillumbah and Ballina, Lawrence and Junction Hill near Grafton, Shortland and Seaham in the Hunter Valley and Dowds Morass in Gippsland, Victoria. The pelican colony is in the Myall Lakes.

"The first task for which the grant money will be used will be to carry out more than 6,000 sightings of over 200 tagged individual birds which have been reported in the last two years onto a computer data base in order to analyse the migration patterns," Professor Maddock says.

"Two major migration movements have already been identified for Cattle Egrets, one minor movement northwards and a major movement southwards from the colonies in Queensland and New South Wales to Victoria, Tasmania and New Zealand," he says.

The Julius Stone Postgraduate Scholarship in Law

The Julius Stone Postgraduate Scholarship in Law is available to those who wish to undertake or continue full-time research at the master's or doctoral level within the Faculty of Law at the University of NSW. (Applicants for the scholarship must have been successful in an application for an Australian Postgraduate Research Award, or for an Overseas Postgraduate Research Award or must be of an equivalent standard.)

The scholarship, worth $10,000 annually, may be held for up to two years in the case of a Masters degree and up to three years for a PhD.

For application forms and further information please contact:

Administrative Officer, Faculty of Law, University of New South Wales: (02) 697 3394

Closing date for applications is March 31, 1992.
Special Course has 14 Graduates

The successful completion in Newcastle of an innovative course to prepare Aborigines for possible entry to New South Wales emergency services has led to similar courses being considered for other parts of the State.

Thirty weeks of concentrated work by 14 Aborigines was rewarded when the group 'graduated' last month at the Koori Aboriginal Education Centre on the University campus.

The group completed the Koori Emergency Services Preparation Course which was undertaken at Wollotuka and at the Charlestown and Windale SkillShare Centres. The Commonwealth Department of Employment, Education and Training funded the course under the auspices of the University's Commercial arm, TUNRA.

The success of the course, believed to be the first of its type in Australia, could see similar programs conducted at Lismore, Wollongong/Nowra and in Sydney's western suburbs.

One of the lecturers for the course, Neil Wright, said the program was designed to prepare the 14 participants to enter services such as police, fire and ambulance. The course did not guarantee the participants employment in the various agencies but offered them the potential to gain a qualification which would satisfy entry requirements.

Topics such as physical fitness training, living skills development, communication and interpersonal skills, work and work practices in addition to literacy and numeracy were studied by the group.

University Chancellor, Justice Elizabeth Evatt, presented certificates to the participants, five of whom are now considering University courses and the other nine looking at training courses in the police, fire or ambulance services.

Common Room needed at International House

Convocation and Rotary

have launched a $250,000 appeal to build a common room at International House.

The funds will allow International House to improve its facilities for residents by establishing a social/community/dining room.

International House provides on-campus accommodation for a 50/50 mix of Australian and overseas students. A room in the residence currently costs $55 a week. International House is one of more than 100 halls of residences bearing this name at universities around the world.

Since the 1960's Australian Rotary Clubs have been involved in the building of International Houses at many Australian universities.

The 147 residents of the University's International House originate in 21 countries, while the 100 residents of Wollotuka and at the Charlestown and Windale SkillShare Centres. The Commonwealth Department of Employment, Education and Training funded the course under the auspices of the University's Commercial arm, TUNRA.

The University Chancellor, Justice Elizabeth Evatt, congratulates one of the participants, David Davis, at the presentation ceremony. Member for Newcastle, Mr Allen Morris (centre) was one of the dignitaries who attended the ceremony.

The group pictured after the ceremony. (Back row) Bernie Lamont, Julieanne Nicholls, Michelle Cooke, Fiona Beale, Norm Hatch, Cyril Green. (Front row) Gordon McAlpine, Zorron Connors, Mardi Walker, Craig Faulson, Elsie Randall, David Davis and Ivan Robinson.

The 14 residents of the University's International House originate in 21 countries, while the Australians are mostly from country areas of New South Wales.

The construction of the buildings that make up International House has been funded by the University and the residents, who are currently borrowing $250,000 to provide more accommodation.

When the BULLETIN went to press, donations to the Convocation/ Rotary Appeal amounted to $12,000 and pledges received were worth approximately $5,000. The names of all donors who give $100 or more will be inscribed on a roll of honour at International House.

All donations are fully tax deductible.

For further information telephone the Convocation Officer, Ms Margaret Wells, at (049) 21 6464, or the Warden of International House, Dr Noel Rutherford, at (049) 21 6966.

Practising Postmodernism: A Symposium

A two-day Symposium on postmodernism, to be held next Thursday and Friday, November 7 and 8, has attracted a number of distinguished visitors to the University. These include Mr Paul Carter, the author of The Road to Botany Bay, Dr Stephen Muecke from the University of Technology, Sydney, Dr Lesley Stern from the University of New South Wales and Dr Julian Pefanis from the University of Sydney.

The Symposium will also include papers from a range of scholars from within the University as well as by Dr Leith Morton who will take up the Chair in Japanese in 1992. Dr Morton will address the meeting on some postmodern currents in contemporary Japanese poetry.

Other topics to be discussed in their relation to postmodernism include architecture, sound-sculpture, theatre, video, philosophy and cultural studies.

All sessions will be held in the Audiovisual Theatre of the Auchmuty Library commencing at 1 pm on Thursday, November 7 and concluding at 5.30 pm on Friday, November 8. All are welcome to attend and there is no charge.

The Symposium is sponsored by the Faculty of Architecture, the Faculty of Art, Design and Communication, the Language and Literature Board and the Departments of History and English.

For further information, please contact Dr Klaus Neumann from the Department of History, or Dr Imre Salusinszky from the Department of English.
Cross the Creek Exhibition

Pictured right at the opening party held for the Cross the Creek Exhibition are (from left) Ms Katrina Rumley, the University's Consultant Curator, and Mr Allan Chawner, Ms Patricia Wilson, Ms Christine Ross and Mr Garry Jones, staff of the Faculty of Art, Design and Communication who had works in the exhibition.

The exhibition was presented in what has become the University's Art Gallery - the former East and the Pacific Room of the Great Hall.

The exhibition comprised works of art executed by 43 member of staff of the Faculty. Paintings, prints, drawings, sculptures and ceramics were on show.

In the words of the Vice-Chancellor, who spoke at the opening: "The exhibition is important in that it is the first time since amalgamation that all members of the Faculty's staff have had the opportunity to display, as one body, examples of their recent professional practice.

"It is important, too, in that the 'creek', which divided the old Hunter Institute campus and the University, is being symbolically crossed so that works can be shown in the University's gallery."

The exhibition was arranged by the Art Advisory Group and Ms Sonya Cettin was Guest Curator.

Ms Rumley, opening the exhibition, said it was very important for the University to show works by artists who were living in the Newcastle Region and for her to see them.

She said her involvement had led her to paying visits to studios in Newcastle and seeking further local works.

Ms Rumley, who is Consultant Curator for the University of New South Wales, has prepared a draft art acquisitions policy for members of the Art Advisory Committee to consider.

The submission states that the University has the good fortune to be one of the most attractive campuses in Australia.

From its inception, the University had taken much care to ensure that the campus environment was aesthetically pleasing and conducive to learning and teaching.

"The exhibition is important, too, in that works can be shown in what has become the University's Art Gallery." Ms Rumley said.

Law Prize Giving

The Department of Law has held a ceremony in the University's Staff House to present prizes to students who have achieved distinction in their law studies.

The students were presented to the Deputy Vice-Chancellor, the Curator and the Dean of the Faculty of Economics and Commerce, Dr Winston Dunlop, in the presence of other members of the Department of Law.

Before presenting each of the recipients to Professor Carter, Lecturer in Law, Mr Tom Presbury, commented that this was the first occasion on which the Department of Law had instituted a personal presentation to recognise distinguished performance of students in subjects offered by the Department.

Two students received special mention by Mr Presbury for their sustained distinguished performance, Mr Kenneth Conway, who achieved distinctions in three subjects, Personal Liability Law, Contract Law 2 and Information Technology and the Law, and Mr Warren Turton who achieved distinctions in Company Law 2 and Information Technology and Law.

Both are also enrolled in the Bachelor of Law and Administration degree course offered by the Department.

During his speech, Mr Presbury gave special acknowledgment to the support of Butterworths Pty. Ltd., the publishers of legal and commercial books and periodicals which made available book prizes that were presented.


Planning a Trip to the U.K. in 1992?

British University Study Holidays offer Summer Academy 1992.

The program offers you over 80 courses covering a range of topics including Heritage, The Arts, Languages & Culture, Countryside, and Personal Development.

Courses usually include a combination of lectures, discussions and excursions to appropriate places of local interest or outstanding beauty. From June 20 - September 12, Summer Academy courses available at cost from GBP245.00 to GBP295.00.

For leaflets on further information, please contact Kathleen Dacey, Accommodation Office, Ext. 5592.
Chemistry Presentation

The Department of Chemistry recently held a Careers Night and Presentation of Certificates to students who have achieved outstanding academic excellence during their course.

The function was well attended and featured an informative talk by Graduate Careers Officer, Kate Gemmell, who outlined the different options available to science graduates and also some interesting points to consider when applying for a job.

The students were also addressed by Tony Burke, an honours graduate now working for the Australian Manganese Co. Ltd. In his talk, Tony described the duties involved in his job and also the relevance of his degree to his career. He said one aspect of industry today was multiskilling, particularly in the light of economic viability.

He recommended that if possible, Chemistry students should consider adding honours to their basic degree as "it adds flexibility and finesse and can only improve the chances of suitable employment."

With the talks over, the awards for academic excellence were presented to David Smith (Chemistry 101 - 1st year), Angus Thomson (Chemistry 211 - 2nd year), Jane Rose (Chemistry 231 - 2nd year), Alexander Kaito (Chemistry 251 - 2nd year), Karl Neilson (Chemistry 311 - 3rd year), Mark Mather (Chemistry 321 - 3rd year), Paul Kau (Chemistry 331 - 3rd year) and Michelle Toirkens (Chemistry 341 - 3rd year).

Certificate winners (L to R) Paul Kau, Karl Neilson, Jane Rose, David Smith, Michelle Toirkens, Mark Mather, Angus Thomson.

Engineering Scholarships Awarded

Four undergraduate scholarships for first year students enrolled in either the Bachelor of Engineering and the Bachelor of Surveying degrees in 1991 have been announced by the Department of Civil Engineering and Surveying.

Known as the Frank Henderson Undergraduate Scholarships, they have been awarded to Glenn Leman, Samuel New, Gwenda Henriksen and Peter Dash.

The scholarships, worth $500 each, are for one year and are paid on the basis of their HSC Tertiary Entrance Rank. The recipients are chosen on the basis of their HSC Tertiary Entrance Rank rating.

Another scholarship, the Institution of Surveyors, NSW Scholarship, has been awarded this year to two students enrolled in the Bachelor of Surveying degree. Normally only one scholarship is awarded, but the HSC standard of Andrew Robertson of Ulladulla and Daniel Fluechter of Coffs Harbour was so high that two scholarships were awarded. These scholarships are worth $500 per annum for each of the four years of the degree.

Aviation Researcher visits University

A visitor to the University who has a special interest in aviation psychology, has some interesting statistics to pass on to academic staff from the Department of Aviation and students enrolled in the Bachelor of Science (Aviation) course.

Dr David O'Hare, Senior Lecturer in Psychology at Otago University in Dunedin, New Zealand, has been researching for seven years, the psychological factors which affect pilots. Dr O'Hare says that around 60% to 70% of aircraft crashes are due to human error and even though accident statistics have improved over the last decade, safety initiatives still need to be taken in this area.

He says the International Civil Aviation Organisation, the umbrella organisation under which all civil aviation is organised, in encouraging human factors research which not only covers pilots, but maintenance crew, controllers and anyone who has a role in the aviation system. "It is vital that the aviation situation is designed so that humans can perform as well as possible," says Dr O'Hare.

"Aircraft cockpits are now better designed and whereas in large airliners the cockpit is a computer environment, small aircraft are at the other end of the spectrum with much older technology in place. "We need to know why pilots make certain decisions and what factors influence their decisions. This human error factor is the area where safety gains can be made in aviation. "Through my research I hope to provide the knowledge that can be translated into training," he says.
Advertisements

For Sale
Datsun Sunny Coupe. 1979 Model, 12 months registration, mechanically very good, no rust. Excellent value. $2990. Please telephone Ext. 5907 or 63 3512.

For Sale

For Sale
Large house, four bedrooms, three garages. Five minutes from the University. Elevated with great views Brick & hardiplank & tile. Lecturer moving. Will accept $175,000 or near offer. Please telephone Ext. 6728 or 63 6767.

For Sale
Seabird 3.2m Fibreglass Sailing Boat on Fatka Trailer with 4 hp Mariner Outboard. $2,200 or near offer. Please telephone Ext. 5449 or 467601 (after hours).

For Sale
Acoustic Guitar, 'Maxtone' Model JG-824, almost new in mint condition with two beginner music books. $150 or near offer. Please telephone Ron on Ext. 6071 or 57 5574.

For Sale
Grey Honda Civic '89 Hatch. Air-conditioned, power steering and windows. 33,000 kms, in excellent condition. $17,000. Please telephone Marita on Ext. 6236 or 29 2658 (after hours).

For Sale
Contemporary design western red cedar home set on large block in Rankin Park, close to University and John Hunter Hospital. Comprises three bedrooms (main with ensuite), study, lounge and dining area, large eat-in kitchen, separate family/rumpus room, bathroom and laundry with third toilet. Inground pool and double garage. Please and outlook and considerable privacy. For further information please telephone Ext. 6028 or 52 4550.

Urgent Sale
Lap Top Computer-Compaq, near new, had very little use. Excellent computer, $3,000 or near offer. Please telephone John on Ext. 6240 or John and Stephanie on 48 7294 (after hours).

For Sale by Tender
Both are in working order. These typewriters are available in Store 1 for inspection. For further information please telephone Petra Leschinkohl on Ext. 5335.
Tenders close at 11 am on Friday, November 15, 1991
Tender forms are available at inspection site and should be addressed to: The Purchasing Officer, University of Newcastle, University Drive, Callaghan.

Department of Holistic Health Studies Seminar

An Integrated Approach to Health Promotion in a small Rural Community in Ghana

Speaker
Dr Komla Tsey, PhD
Member of the University of Ghana Lecturer in History
Community Development Consultant
November 4
12 - 1 pm
Richardson Wing (Room 2-22)
The University of Newcastle

Enquiries can be made by telephoning Mr Abdul Monaem, Department of Holistic Health Studies on 21 6722.
Various programs for Japanese studies.

An award of General Textiles, raw wool marketing, production, wool harvesting.

TraveVConference application to facilitate travel to major research facilities overseas.

Industry for research in higher educational institutions.

Funding for service sector issues that lead to a post-graduate degree and deal with current and topical problems.

Support for secondment or interchange between institutions.

Junior Research Fellowships for the prevention of crime throughout Australia.

Research and development relating to the chicken meat industry in 1992/93.

Coopers & Lybrand Accounting Education & Research Fund.

Research projects in an accounting-related area. Preference for projects that lead to a post-graduate degree and deal with current and topical problems.

Egg Industry Research & Development Councils.

Research grants, fellowships and studentships in various fields.

Support for research projects which are likely to produce results of relevance for the prevention and control of crime throughout Australia.

Egg Industry Research & Development Council.

Travel/Conference Applications.

FELLOWSHIPS AND CONFERENCES

Grains Research & Development Corporation Senior Fellowships.

Maximum award to an individual will be $50,000.

Grains Research & Development Corporation - Visiting Fellowships & Industry Awards.

1 - 12 months - maximum award to an individual $17,500.

Grains Research & Development Corporation Inservice Training.

Funds for younger scientists, tech staff etc. for travel, secondment or interchange between institutions.

Canadian Studies Program International Fellowships.

For doctoral graduates in the natural sciences or engineering for up to two years.

Robert S McNamara Fellowships Program.

To support postgraduate research in areas of economic development.

Chicken Meat Research & Development Council.

Junior Research Fellowships Awards.

The Institution of Engineers Australia International Conference Support Scheme.

Support for selected international scientific, technological or engineering conferences.

National Campaign Against Drug Abuse.

DITAC Access to Major Research Facilities Program.

To facilitate travel to major research facilities overseas.

Apply at least seven weeks before date of intended travel.

Education and Training Foundation.

BHP Community Trust.

RADGAC Department of Community Services & Health.

Medical research and targeted research areas.

Research Management Committee Travel Grants.

Research Management Committee Research Visitors.

Welcome-Ramaciotti Research Travel Grants.

Further information and relevant application forms are available from the Office for Research - telephone 21 5305.
agreed capital works pro-

gramme for building phase 1 of the Central Coast Campus.

Professor Morgan said it was envisaged as a major project costing $32 million in the years 1994-96.

While the future development was dependent upon provision of adequate accommodation, it was also dependent upon resources for the academic and ancillary services, for which adequate provision had yet to be provided.

Provision had to be made for establishment of university programs on a remote campus, establishment of library, computer and administrative systems and carrying out physical planning and site works.

In a report, Professor Carter said a basic worry about the Central Coast Campus was the lack of clarity about funding for academic activities, including both teaching and research, and, in particular, the danger that the University would be landed with substantial extra academic responsibilities, it was also agreed that Mr Warren's motion be minuted for the next Council meeting.

The Vice-Chancellor reported that the introduction of a $2.50 levy on visits to a doctor could have a serious impact upon the University's Health Service.

Professor Morgan said that presently a viable operation provided a very important service to students under the bulk billing arrangements. Any change would require the University to review its Health Service operation.

He said the Commonwealth Government was further considering the matter.

Council approved the following fees for accommodation in the University's halls of residence in 1992:

- Edwards Hall, main hall $130 a week, self-catering units $75 a week.
- International House, $65 a week (all accommodation).
- Evatt House, ten bedroom flats $60 a week, five/six bedroom flats $65 a week.

Council asked for further consideration to be given to the proposal that a 40-place child care centre for children of the Evatt House be established and a report be submitted to the next Council meeting.

In August, the concept of a work-based child care centre was approved in principle and the proposal was referred to the Budget and the Finance Committees.

Mr David Marr said that a work-based child care centre on the campus had been under consideration for about a year.

The Chancellor said:

"We have an in-principle decision, but we are waiting to see if we have the money."

Council had before it a report which indicated that it was not presently possible to provide the $4 million envisaged being allocated to establish Student Residence No 4.

The Deput_y Vice-Chancellor (Administration), Mr Lane and the Attorney-General, said policies approved by the Council in 1989 provided for the development of student residential colleges under their own governing bodies with a minimum size of 120-150 students - the same basis upon which International House and Evatt House had been established.

Mr Hennessy said it was proposed - and accepted by the Interim Council - that the Commonwealth Government's package of $3 million in 1990 (the earthquake grant), plus $0.5 million indicated for 1992, should be matched by the University to make a total Commonwealth and University provision of $7 million for student accommodation for 1990/1992.

The $7 million package was approved at a time when it was believed that the financial situation of the University should allow for the matching of these funds which were not required to be matched, he said.

Subsequent to the passing of the resolution, there had been a number of developments which mitigated against proceeding further, including the fact that the financial position of the University had been adversely affected by the $2 million reduction in its budget in late-1990.

Mr Hennessy said it now appeared that the more practicable and economic course for the University to take on the provision of further residential accommodation was to build up International House and Evatt House to a size of at least 220 places each. This would leave another 110 places in all to achieve that size.

A further revision of the Evatt House site suggested that it might have the capacity for up to 350 students.

Mr Hennessy said any new projects, however, would depend on further resources and a Commonwealth review of student accommodation was anxiously awaited.

Council accepted the advice of the Finance Committee that the 1990 decision should not be rescinded as the situation might change in the longer run.

Council was told that tenders had been invited for banking at the University.

The University had invited tenders on two distinct matters - the lease of the premises currently occupied by the Commonwealth Bank, and the construction and occupation of a new bank on the campus.

The successful tenderer would be appointed official banker for the University's trading account and routine banking.

The lease on the Commonwealth Bank's premises expires on December 31.

Don't Forget - Daryl Bradbridge Concert Tickets - On Sale NOW II Available from - Civic Theatre

STOP PRESS

Second year Bachelor of Arts (Communication Studies) students majoring in photography have held a successful exhibition at Charlestown Square Shopping Centre.

The display entitled 'Black & White - A Visual Contrast of Ideas and Themes' captured the interest of the public and allowed the students the chance to show their skills.

The University's Griffith Duncan Theatre was the venue for a French Verbe Speaking Competition recently. Almost 100 competitors from 16 secondary schools took part in the event which included eight divisions from junior to senior native speakers and from Year 7 to senior year categories.

Competition organiser, Lecturer in Curriculum Michael Berresford, said the competition was supported by numerous community groups and proved that the French language is 'alive and well' in Newcastle.