May I, on behalf of the University, extend seasonal greetings to all readers of University NEWS. Many of those who regularly receive our fortnightly newsletter are located beyond the boundaries of the Shortland campus and the NEWS is one way of keeping all the rest of news of people, events and achievements about which we might otherwise remain unaware. I hope that you have found something of interest to read in each edition and will continue to support this important means of communication between ourselves.

1983 turned out to be a pivotal year in the University’s history. It started out with amalgamation staring us in the face, but a change of government in Canberra on March 5 presented us with a last-minute reprieve which many had almost given up all hope of achieving. This, together with the return to a strong growth in student enrolments this year, had dramatically changed our vision of the future of the University and it was possible by the time of the visit of the University's Council in September to present a much more positive submission for the 1985-87 Triennium. It remains to be seen whether the CTEC will recommend the funding necessary for such continued growth to be sustained and also recognise the important role this University can play in meeting the Government’s objective of increased educational opportunity.

With the threat of amalgamation lifted alike from the College and the University, it is pleasing to note the improved co-operation between the two institutions both in academic planning and in other areas. Although planned long before amalgamation surfaced as an issue in 1981, the recent opening of the Les Gibbs Field Station is an excellent example of what can be achieved with goodwill and common sense. I am confident that this progress can be maintained and that the 1985 review will not present any difficulty either to State or Federal Governments or the two institutions. To place unnecessary impediments in the way of such co-operation, apart from flying in the face of fortune, would merely give comfort to those few who shared the CTEC’s view of the future structure of tertiary education in Newcastle.

The strength of the University remains the quality of the teaching and research undertaken within it and the dedication of the students and members of staff who contribute more over the page.

Sarah Clarke, Daniel Raper, Aeron Ryan and Lauren Howarth trim the tree before Santa’s arrival at Kintalba, the community child care centre at the University.
Individually and collectively to these ends. All make their important contributions, whether from the academic or general staff side or in the administrative and support services, it is a pleasure to acknowledge once again this wholehearted commitment when wishing everyone a very happy Christmas and prosperous New Year, which, despite its connotation as 1984, holds much promise of further growth and achievements for the University.

Off to the U.S.A.

Dr. Richard Garrett, a postgraduate Physics student, has taken up the opportunity to do further research work in the United States. Richard will leave shortly to enrol at the State University of New York in Stony Brook, New York, in a postdoctoral course. He expects to be studying in New York for about two years.

Dr. Garrett has been working under Professor R. Macdonald as a member of the ion-surface interaction research group for the last four years.

At the State University of New York he will be working with Professor Franco Jona on surface structure determination.

NCEA Medal

Mr. Trevor Swann, who completed his postgraduate studies in the Faculty of Education, was recently awarded the NCEA Medal for 1983 by the Newcastle Council for Educational Administration.

Mr. Swann earned the medal for his Master of Educational Studies Extended Essay, entitled Teacher Motivation in Alternate Structures in New South Wales High Schools.

The medal is awarded annually for a significant contribution in the field of educational administration, and is open to University and College students and to teachers from government and non-government sectors in the Hunter Region.

Mr. Swann's paper was considered outstanding by the awarding committee, it was the basis for a presentation made by Mr. Swann to the Annual Conference of the Australian Council for Educational Administration, at Brisbane in June of this year.

BETTER COMMUNICATION

On November 29 the University was host to information services staff of universities in New South Wales and the Australian Capital Territory and Queensland. The regional meeting was part of what is now an established pattern of meetings of information officers in most states. In general the meetings are concerned with universities co-operating to improve their communication with the community, especially in academic and research fields. The Vice-Principal, Professor K. Dutton, had afternoon tea with the visitors. Pictured are (seated, from left) Sue Coleby (Sydney University), John Armstrong (Newcastle University), Maureen Barnett (Australian National University), Robyn Stone (University of New South Wales), (standing from left), Frank Harvey (Macquarie University), the Vice-Principal, John Dash (Australian National University), Allison Andrews (Griffith University), Tony Murray (Queensland University) and Neville Petersen (Sydney University). Giles Pickford (Wollongong University) also attended the conference.
ACID RAIN STUDY

A grant of $256,000 has been awarded by the National Energy Research, Development and Demonstration Council to study acid rain in the Hunter Region over a three-year period.

Dr. Howard Bridgman, of the Department of Geography, will carry out the project jointly with Mr. R. Rothwell, of the State Pollution Control Commission, and Mr. P. Tlo, of the Electricity Commission of New South Wales.

In 1981 Dr. Bridgman spent an Outside Studies Programme working with the Illinois State Water Survey on measuring acid rain and analysing relevant data.

Dr. Bridgman says that the Hunter study will attempt to determine the spatial and temporal variations in rainfall acidity, what ions contribute to the problem, how meteorological situations affect acidity and the impact of emissions from power stations and industries on rain acidity.

"It's partly a matter of establishing a research area in a laboratory in the Department of Geography. We will also need a series of automatic rainfall collectors between Lake Macquarie and Singleton, a four-wheel drive vehicle to bring the samples to the University for analysis and a technical officer to assist me", Dr. Bridgman says.

The SPCC will set up rainfall collectors in the Upper Hunter as far west as Marrilla. The Electricity Commission's interest is to determine whether SO2 and NOx emitted by power stations contributes to rainfall acidity.

Dr. Bridgman explains that acid rain is rain which has a higher acid (H+) ion content than normal rain. It is measured by determining the pH. Normal rainfall has a slightly acid pH of 5.6, while acid rain has a pH of less than 4.5.

"In the north-eastern part of the United States", he says "the average pH of the rain is 4, which is about 300 times greater than normal.

"We believe that in some parts of the Hunter Region it is possible to get pH as low as 4. A pilot study carried out by an honours Geography student in 1981 found that the pH near Lochinvar was between 4 and 4.5".

The investigators will analyse rain samples within 24 hours of the rain falling. The samples will be refrigerated, brought to the University and filtered in the laboratory to prevent chemical reaction. The pH will be measured in the laboratory and the samples will be passed on to the SPCC in Sydney so that the concentration of sulphate, nitrate, chloride and other ions which control the acidity in rain can be measured.

Summing up, Dr. Bridgman says that the research team is attempting to establish, in general whether or not there is an acid rain problem in the Hunter. The effects of sources of pollution both local and outside the Hunter Valley, for example in the Sydney Metropolitan area, the link between meteorology and rainfall acidity and synoptic wind movements must be studied.
**CHAIRMAN STEPS DOWN**

Promotions and reclassification, new conditions of employment and equal employment opportunity legislation are some of the chief issues the University Sub-Division of the PSA has been dealing with in 1983, according to the Past Chairman, Dr. David Kay.

Dr. Kay, Professional Officer in the Department of Biological Sciences, submitted his report for the year at the Sub-Division's annual general meeting on December 2.

He told a very small group of members that 1983 had been a year of little progress and some frustration, with much of the Union's efforts going into the maintenance of the status quo.

"The wage pause has meant no increase in salary and this had also meant that any changes in conditions with implications in the salary area have not been proceeded with either."

"The new guidelines for half yearly indexation are as tight as, if not tighter than, those associated with the wage pause and once the State also agrees to these guidelines (as seems most likely) then individual promotions/reclassification may be harder to achieve than previously", he said.

"The Sub-Division is experiencing long delays in University action on promotion-reclassification applications by members. Part of this is due to insufficient staff in Personnel. However, a large part is due to a realisation by the University that the larger number of successful appeals to the Appeals Tribunal indicated that the present system was not working. This has led the University to propose new methods for dealing with promotion applications and redefine the guidelines for the Appeals Tribunal. Most of the University's proposals are acceptable", Dr. Kay said.

The new conditions of employment award had been finalised. As the full implications of any changes in conditions would not be known until every member had read the award, the Union was negotiating with the University for each employee to be given a copy.

"On the question of equal employment opportunity", Dr. Kay said, "the University appears to be at last coming to accept that it is bound by the new legislation. Changes are beginning to appear in a number of areas.

"The Union must see that the University does not merely pay lip service to the new legislation and the best way to do this is through continual vigilance by our members. The University has already seen fit to go against the wishes of PSA members, the Academic Staff Associations at the CAE and the University and the State EO Co-ordinator to reclassify applications by members. Part of the Union's efforts is to ensure that the University does not act in these ways."

In consequence of his decision not to renominate for election as Chairman, Dr. Kay completed a seven-year period as head of the Sub-Division on the campus.

The Returning Officer, Mr. D. Shilcock, reported that Mr. Lionel Farrell, Assistant Secretary (Legal), was the only candidate for Chairman. There had not been any nominations for Secretary and Assistant Secretary, and for several places on the committee and positions of delegates.

Nominations for election to the unfilled positions were called from those members present.

The following office bearers of the committee were elected:

Chairman, Mr. Farrell.

Secretary, Mr. B. Kelleher.

Assistant Secretary, Ms. Mary Stroud.

Committee, Ms. Margaret Davie, Ms. Susan McDonald, Mr. Bade Jordan, Mr. Ron Gowdem, Mrs. Joy Hoelsl, Dr. Kay and Mr. Shilcock.

Returning Officer, Mrs. Mary Rabbitt.

As one vacancy remains on the committee, nominations will be called at the next general meeting.

The meeting approved changes in the Sub-Division's rules to provide, among other things, for members of the committee to be elected by a secret ballot in accordance with the optional preferential system of voting and for the Deputy Chairperson to be elected by members (previously the officer was elected by the committee).

Mr. Farrell, after he assumed the Chairmanship, expressed the PSA's thanks to Dr. Kay and members of the committee who had retired.

He said to the members: "I know that you must understand that the times have felt like the meat in a sandwich of University immobility, on the one hand, and seeming PSA indifference, on the other.

"The annual report is full of references to 'University resistance' and also to what can only euphemistically be called 'breakdowns of communication with the PSA in Sydney. Thanks to the efforts you have made in the past, I believe the time has now come when we can think of shaking off this passive role and demand instead, from both the University and the PSA, a greater degree of awareness and commitment on their part to the concerns and interests of the members of this Sub-Division", Mr. Farrell said.

"Let me assure you all that this will be the immediate aim of the new Management Committee and, as the Americans say, we will give it our best shot", he added.
December Council

At its meeting on December 9, the University Council approved the promotion of the following members of the academic staff:

Senior Lecturer to Associate Professor

Dr. M.N. Maddock joined the staff of the University as a Lecturer in the Department of Education in 1974. He was promoted to Senior Lecturer level in 1976. Since joining the staff, Dr. Maddock has published 34 papers. Dr. Maddock, who has had publications accepted by leading refereed journals of international status, has been described as one of the most systematic and experienced scholars in the field of comparative science education. He has established an international reputation and has made a decided contribution to the work of the University.

The following Lecturers were promoted to Senior Lecturers:


Mr. A.A. Heath, B.Sc., Ph.D. (Master), Department of Psychology.

Dr. D.J. Hill, B.Sc., B.E. (Queensland), Ph.D., MIE Aust., MIEEE, MSIAM, Department of Electrical and Computer Engineering.


Dr. C.P. Polinitz, B.A. (Adelaide), Ph.D. (Leicester), Department of English.

Dr. J.A. Ramsland, B.A. (New England), M.Ed. (Sydney), M.A., MACE, Department of Education.

Dr. J.A.P. Rostas, B.Sc., Ph.D. (Monash), Faculty of Medicine.

Dr. G.B. Samuel, M.A. (Oxford), Ph.D. (Cambridge), Department of Sociology.

Dr. J.D.C. Shea, M.A. (Canterbury, New Zealand), Ph.D. (Queensland), Department of Sociology.

Dr. P.J.C. Stanton, M.A., Dip.Ed. (Sydney), Ph.D., Department of Economics.

Dr. I.G. Weilschutzky, M.Com., Ph.D. (Bath), Dip.Bus.Stud., AASA (Senior), Department of Commerce.

The University Council farewell four members of the Council at the meeting on December 9. The Deputy Chancellor, The Hon. Justice Michael Kirby, indicated his intention to retire following his election as the new Chancellor of Macquarie University. The Very Reverend R. Baal retired to take up a senior position with the Anglican Church in Albury. Mr. Warren Darken, who had served as a member of Council since the formation of the first full Council of the University in 1965, retired. Mr. Stephen Date retired after completing nearly seven years as a member. Referring to their departure from the Council, the Chancellor, Sir Bede Callaghan, thanked them on behalf of the University and wished them well. Pictured before the meeting are members of the Council: (seated, from left) Dr. A. Forsythe, Professor C. Ronwick, Professor C. Ellyett, Mr. M. Kavanagh, Judge Michael Kirby, The Chancellor, The Vice-Chancellor (Professor D. George), Very Reverend R. Baal, Mr. W. Darken, Mr. S. Date; (standing from left) Mr. T. Askle, Miss J. Dyce, Dr. D. Wright, Professor M. Carter, Mrs. M. Bowman, Mr. M. Edmonds, Mr. P. Hendry, Mr. P. Chopra, Professor R. MacDonald, Dr. D. Huxley and Mr. J. Risby, Mr. A. Beare, The Hon. R. Dyer, MLA, Mr. S. Jones, MLA, Professor G. Kellerman, Mrs. E. Morrison and Mr. B. Neil are also members of the Council.
COUNCIL

Following a recommendation from the Vice-Chancellor, Professor K.R. Dutton was re-appointed Vice-Principal and Deputy Vice-Chancellor for a period of three years from January 1, 1985.

The Vice-Chancellor reported that Newcastle CAE had not been able as yet to respond to the Council's invitation to make a joint appointment of an Equal Opportunity Co-ordinator. He expressed his concern that the University was running out of time.

Mrs. M. Bowman, President of the NCAE Council, said that the CAE hoped that if the University decided to go ahead with the appointment of its own Equal Opportunity Co-ordinator the CAE could use facilities jointly with the University.

Dr. D. Huxley, Deputy Principal of NCAE, said the New South Wales Public Service Board had asked the CAE not to proceed until the CAE's power to be involved in a joint appointment had been cleared up.

In discussion it was claimed that a joint appointment would be in accord with the Federal Minister for Education's policy that the University and the CAE work cooperatively.

The matter was resolved by the decision to continue efforts to achieve a joint appointment with the NCAE but to give the Vice-Chancellor authority to appoint an Equal Opportunity Co-ordinator solely for the University if he felt that it was not possible to make a joint appointment.

Referring to advice that the Australian Broadcasting Tribunal had decided to renew the licence of public broadcasting station 2NUR-FM for three years until October 31, 1986, the Vice-Chancellor expressed his wish for a working party to be established to review all aspects of the operation and funding of the station and report back to the Council. Council approved the proposal and appointed Dr. P. Hendry a member of the working party.

Council was told that Kintalba, the community child care centre at the University had completed a most successful year, providing for 98 preschool children over 12 months of age. The children comprised 14 children of University/CAE students, 35 children of University/CAE staff, 39 children from the community and 22 children with special needs (e.g., low income, one parent).

Basic equipment has been added during the year, including outside climbing playing equipment, teaching aids and furniture, in excess of $6,000. The Australian Government has recently sided the upgrading of equipment by the provision of a once-only grant.

As a result of an excellent report from the Department of Youth and Community Affairs the Department's classification has been upgraded to the highest classification awarded.

Following a recommendation from the Senate, Council approved the establishment of an Institute of Behavioural Sciences with the basic object of encouraging and facilitating interdisciplinary research in the Behavioural Sciences.

Interest in the new Institute has been expressed by members of staff from the Faculty of Medicine, the Department of Psychology, the Department of Mathematics, Statistics and Computer Science, the Department of Architecture, the Faculty of Education, the Department of Geography and the Department of Sociology.

The Institute is also expected to provide a means of cooperation with Newcastle CAE's Special Education Centre.

Dr. D. Wright had made a submission to the Finance and Personnel Committee claiming that fixed-term staff members were at a serious disadvantage as a result of housing and outside studies programmes not being available to them.

He said it would be appropriate for the University to extend OSP to fixed-term staff who were appointed for a period longer than three years in the first instance and those who were initially appointed for three years and subsequently accepted a second contract.

Dr. Wright moved that when a fixed-term staff member served the University for more than four years he should be eligible for OSP on the same conditions as a tenured staff member. The motion was put and lost.

It was decided to ask the Finance and Personnel Committee to give the matter further consideration.

Council changed the By-Laws to approve annual elections of student members of Council.

Special provision has been made for student member-elect Mr. Terry Slevin, whose two-year term of office starts on January 1, 1984, and student member, Ms Margaret Kavanagh, whose term expires on December 31, 1984. Mr. Slevin will have a two-and-a-half-year term and Ms Kavanagh a 17-month term.

The By-Laws and Constitution Committee reported that with a one-year term of office casual vacancies were less likely to occur, as a student could be reasonably sure of his or her availability for such a period, which was not necessarily the case with two-year terms.

Council also changed the election procedures so that the terms of office of student members of Council commence on June 8. By commencing on this date the members will be able to attend the June Council meeting, thereby reducing the period during which the students are under-represented.

At its previous meeting the Council approved amendments to the By-Laws substituting a postal ballot for the current personal voting for student members of Council.

Council, in the light of a recommendation from the Senate, approved a policy that a "mature age" student shall, from the commencement of next year be considered to be a student who is 21 years old on, or before, March 1 in the year in which degree studies are commenced.
At its previous meeting Council appointed Mr. P. Chopra Chairperson of the Advisory Committee on Equal Opportunity and authorised the Vice-Chancellor to appoint six nominees to the Committee.

Council was informed on December 9 that the Vice-Chancellor had appointed Mrs. Sheila Brown, Professor K.R. Dutton, Mrs. J. Hoessl, Mr. A.P.T. Loftus, Mrs. E. Morrison and Mrs. R. Wallace to the ACEO.

Following a recommendation from the ACEO, Council decided to increase the number of Council-appointed members from six to seven and to appoint Dr. W.J.A. Jonas a member.

An amendment that the number of Council-appointed members be increased from six to eight was put and lost.

It was agreed that the CAE should send an observer to the Committee's meetings and that the question of the appointment of further members of the Committee be considered by the Council at its next meeting.

Council was told that the ACEO had established Action Groups to carry out investigations into specified areas of equal opportunity. An Action Group will report on Aboriginal Education and Employment (Convenor, Dr. Jonas). Mr. Chopra is Convenor of an Action Group on Mechanisms for Dealing with Grievances and Complaints Concerning Discrimination, Including Sexual Harrassment. Equal Opportunity Measures is the third Action Group and its Convenor is Mrs. Wallace.

Open Council Meetings

The Council recently decided that its meetings should be opened to observers.

Guidelines for open meetings, recommended by the By-Laws and Constitutions Committee, were adopted by the Council on December 9.

A summary of the main points in the guidelines:

- A member of the University, or a member of the full-time staff who is not a member of the University, may attend Council meetings as an observer, subject to acceptance of the following conditions:

  Observers will not be admitted to the meeting until after Council has dealt with items identified as confidential;

  All observers will be required to sit in the area set aside for this purpose, if the area is full, no further observers will be admitted to the meeting;

  Observers may not participate in discussion;

  Any observers present will be required to leave the meeting if the Chairman at any stage of the meeting declares that it is closed to observers. They will be re-admitted when the meeting is again open to observers.

  Observers will be expected to conduct themselves in an orderly and proper manner so as not to interfere with the proceedings of the Council. Any observer considered by the Chairman to be behaving in other than a proper manner will be required to leave.

- In order to reflect Council's support of the principle that its deliberations should be open to members of the University, as few items of business as possible should be identified as confidential.

- All confidential items identified will be considered immediately following Minutes and Apologies and Leave of Absence and before Business Arising from The Minutes.

- The Chairman shall have the right at any stage of the meeting to declare it closed to observers.

- Any member of Council shall have the right at any stage of the meeting to request that the Council move into confidential session.

Overseas Post

Applications are invited from Australian citizens to fill the role of the Senior Administrative Officer of the Asian Institute of Technology in Bangkok, Thailand, currently Vice-President for Administration. The position is expected to become vacant on June 30, 1984.

Applications (two copies) should include full personal particulars, details of qualifications and experience, the names and addresses of three referees and a recent photograph, and should reach the Academic Appointments Officer, The University of Wollongong, P.O. Box 1144, Wollongong, N.S.W. 2500 by December 31, 1983. Please mark envelope 'Confidential - Appointment'.

Mr. K.R. Long, Vice-President for Administration, will be in Australia during December and early January. Arrangements to consult Mr. Long may be made through Mr. Walker at the University of Wollongong (042 - 297311).
Marketing Problems

Mr. Elfick, with his photogrammetric device, which is controlled by a micro-processor and a Swiss photogrammetric instrument, which is mechanically controlled.

A University of Newcastle invention with great commercial potential appears to have run into problems because of lack of governmental support.

State and Commonwealth Departments have failed to switch over to the new device, it is claimed, despite the fact that it sells for about a third of the price of equivalent equipment from overseas.

The equipment, which was invented by Mr. Michael Elfick, Senior Lecturer in Civil Engineering and Surveying and patented by TUNRA, is called the SD4 Stereodigitizer. It is a photogrammetric instrument which can be used to analyse pairs of photographs to obtain three-dimensional measurements. The instrument is controlled by a micro-processor and this allows non-expert users to operate the instrument.

Diminutive compared with other photogrammetric equipment, the SD4 is being manufactured and marketed by Qasco (N.S.W.) Pty. Ltd., a well-known aerial survey firm.

Mr. Elfick says the SD4 has a great potential in Australian and world markets and is more versatile than existing photogrammetric equipment.

"In several countries, the operations of government departments in the field of photogrammetry are extensive," he says. "For example a section of the US Department of Agriculture has 2,200 digitizers specially designed for photogrammetric use.

"An investment proposal for a new corporation which is planning to exploit applications of computer communication technology in Australia, Canada and the United States has estimated the market for the SD4 in North America at $20 million in sales over the next few years."

Mr. Elfick says that besides its cost effectiveness an exciting feature of the SD4 is its potential to enlarge greatly the usage presently being made of three-dimensional photographic measurements. People could be easily trained in the SD4 system and its applications.

He gives these examples of the wide range of applications:

Dr. J. Fryer, a colleague in the Department of Civil Engineering and Surveying, has been successfully mapping areas of coral in the Great Barrier Reef.

The Department of Lands used an SD4 as part of its environment analysis of Lord Howe Island.

Archaeologists at the University of Sydney are using an SD4 to study historical photographs of archaeological sites in Petra.

If the United States Department of Agriculture illustrates the potential of the SD4 in America, the same thing is true of government departments in Australia, although not perhaps on the same scale.

Mr. Elfick says that National Parks and Wildlife Service and other departments in New South Wales could make use of the SD4 equipment. However, they appear to be tied to State Government policy and have not left this kind of work to the Central Mapping Authority in Bathurst, which lacks modern analytical stereoplotters.

Mr. Elfick and Mr. N. M. Fletcher, an electrical engineer, designed the SD4 initially in Sydney. It took almost five years to develop three prototypes. Moral support and a grant were given by the University.

Mr. Elfick admits to having become so disillusioned by the unhelpful response of certain people that he almost threw away the whole design. However, on the suggestion of Dr. Fryer, TUNRA agreed to take out patents and negotiate with Qasco (N.S.W.) Pty. Ltd., to manufacture and sell the SD4. Qasco was preferred over other firms because its plant is close to Newcastle (at Baulkham Hills) and the firm has had extensive experience in the field of photogrammetry.

"Over the last three years Qasco has provided about $500,000 to complete the development of the SD4", Mr. Elfick says.

In exploiting the new device commercially, Qasco has encountered large problems. The Public Works Department of
New South Wales and the Queensland Institute of Technology each bought one, but otherwise support for this new domestic product has been very bad.

It is Mr. Elick's experience that Commonwealth Departments will buy an overseas model of an invention even if it costs much more than the Australian version. "Politicians and people who make the decisions are very pleased to be able to show people exotic pieces of equipment in air-conditioned offices. This suggests that they are up-to-date. Some departments obtain their own computers, or buy their own aeroplanes, and sometimes they're purely status things".

There is a problem in the private photogrammetry field, Mr. Elick says, because the main Australian aerial mapping programme has been completed leaving the Central Mapping Authority of New South Wales in Bathurst with excess capacity.

"In the US the situation for high tech companies is different. If somebody comes up with a new idea like the SD4, the Army or the Defence Department is able to find enough money to buy an initial production run. The Department will test the new equipment and, if it performs to expectations, the developer gets paid and the equipment can be exploited commercially. The developer can also borrow money on the basis of Government contracts."

"Of course things do not happen this way in Australia. The Army has told us that they see a lot of potential uses for the SD4. It's the only stereo-digitizer which can be put in a vehicle and taken to the front for use by troops. In accordance with past practice the Army will have to form a committee, which will investigate the possibilities, and if these are favourable tenders will probably be called in about five years time".

Mr. Elick says potential customers in the United States think that as the Australian Government hasn't financed a production test then the equipment must be pretty hopeless.

"In his opinion, the American system of "seeding" new equipment designs helps to explain the success of high tech operations in Southern California, inventors get the wherewithall to get going and once they have started resources and support begins to flow.

New AVCC Chairman

Professor Michael Birt, Vice-Chancellor of the University of New South Wales, has been elected Chairman of the Australian Vice-Chancellors' Committee. Professor Birt will begin his two-year term of office on January 1, 1984.

Professor Birt succeeds Professor David Caro, Vice-Chancellor of the University of Melbourne.

Professor Birt was born in Melbourne. He attended Melbourne Boys' High School and the University of Melbourne, where he took his degrees of Bachelor of Agricultural Studies, Bachelor of Science and Doctor of Philosophy. He went on to Oxford to take his degree of Doctor of Philosophy (Oxford).

Professor J. L. Lumley (Cornell University), Dr. F. C. Lookwood (Imperial College), Professor P. Bradshaw (Imperial College), Professor R. A. Antonia (Newcastle University) and Professor B. J. Cantwell (Stanford University); (front row from left) Professor K. R. Sreenivasan (Yale University), Dr. T. Pedley (Cambridge University), Professor W. Van Dyke (Stanford University) and Professor R. Clift (University of Surrey). Professor J. Imberger, of the University of Western Australia, was also an invited speaker.

Fluid Mechanics Conference

Pictured at the Eighth Australasian Fluid Mechanics Conference held in the Engineering Complex at the University from November 28 to December 2 are invited speakers (back row from left) Professor J. L. Lumley (Cornell University), Dr. F. C. Lookwood (Imperial College), Professor P. Bradshaw (Imperial College), Professor R. A. Antonia (Newcastle University) and Professor B. J. Cantwell (Stanford University); (front row from left) Professor K. R. Sreenivasan (Yale University), Dr. T. Pedley (Cambridge University), Professor W. Van Dyke (Stanford University) and Professor R. Clift (University of Surrey). Professor J. Imberger, of the University of Western Australia, was also an invited speaker.
**Visitor from Berlin**

Atomic Physicist, Professor Jochen Blerzack, from Berlin, recently visited the Department of Physics. He is from the Hahn-Meitner Institut for Nuclear Research, where he is in charge of a group which is carrying out research into atomic collision processes and their applications in e.g. fusion reactors and semiconductor technology.

At the University of Newcastle he collaborated with Dr. John O'Connor and Professor Ron MacDonald on various research projects and also introduced a special computer code associated with ion-solid interaction.

Professor Blerzack is a seasoned international traveller who has also visited Argentina, Brazil, the United States, France, Spain, Japan and China to discuss research and developments in his field, which primarily covers the physics of atomic collisions, including ion implantation in semiconductors, and radiation effects in fusion and fissile reactors.

Presently he is on a tour of China, Australia and the United States West Coast advising universities and industries on the computer code associated with ion-solid interaction. He is also presenting seminars to a number of research groups at the places he visits.

Professor Blerzack, who holds degrees from the Free University of Berlin, including a Doctorate in Experimental Physics, has been developing his research group at the Hahn-Meitner Institut for a number of years. He is also teaching Physics at the Free University of Berlin.

More than two years ago he attended the International Ion Beam Analysis Conference in Sydney. This is one of the occasions on which he, Dr. O'Connor and Professor MacDonald have met. He was invited to visit the Department of Physics on the basis of his high reputation in the field of atomic collisions in solids. Professor Blerzack has been chosen as one of two organisers of the next International Ion Beam Analysis Conference to be held in Berlin in 1985.

He spent four weeks in China and, in Melbourne visited the Chemical Physics Division of the CSIRO and the Applied Physics Department of the RMIT. After leaving Newcastle on December 2, he went to the University of New South Wales to give a seminar before flying to California.

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**TO WISH YOU A VERY FESTIVE HOLIDAY SEASON**
Professor Baxter lost no time in recruiting staff in arts and economics for Newcastle. The man he chose to lead the development was Dr. J.J. Auchmuty who had joined the humanities staff at Kensington as Senior Lecturer in History in 1952 after serving with distinction as the Head of the Department of Modern History of the University of Alexandria.

Auchmuty went to Newcastle in February 1954 with the rank of Associate Professor and was joined on the first of March by Cyril C. Renwick, Associate Professor of Economics. With one other academic, they were there to receive the first enrollment of 95 day and evening students in the arts courses. Within a year they were joined by staff in classics, English, German, geography, philosophy and psychology.

The next step was the formation of an Advisory Committee for Newcastle University College. It had some 30 members representing the academic staff of both Kensington and Newcastle and some high schools of the district, and a number of prominent citizens of Newcastle. The Vice-Chancellor of the University of New England was also a member. The Chancellor, Mr. Wurth, thought it important enough to chair personally the first meeting on June 17, 1954. Accommodation was high on the list of problems, and the Vice-Chancellor outlined his plans for alleviating the shortage of staff offices, student common rooms and other facilities, and for a university library. At that early stage it was pointed out that the site at Tigha's Hill occupied by both the Technical and University Colleges would soon prove to be inadequate and that plans should be drawn up to use a different site in the suburb of Shortland, where there was a large area of land dedicated for higher education.

In 1955 Assoc. Professor Auchmuty was appointed to the Chair of History at Newcastle and was also made Deputy Warden. General Science was added to the list of degrees offered. A major step was undertaken in 1957 when a Department of Commerce was established under Associate Professor Renwick, with a teaching staff of five in economics and two in accounting. This introduction of courses in commerce was undertaken as a result of strong local representations but with some uncertainty as to the enrollments they would attract. The Lord Mayor of Newcastle, Alderman D.G. McDougall, raised a fund of some $9,000 as a contribution to the cost of introducing the courses. In the event, enrollments built up quite rapidly.

After the passing of the legislation which empowered the University of New South Wales to establish courses in arts, the Council sought the formal agreement of the University of New England to the termination of the arrangements for external degrees started in 1954. Students enrolling in 1959 and thereafter would qualify for the degrees of the University of New South Wales; students who had enrolled before then were given the option of graduating at either University. The five-year association between the two universities had been a most fruitful and amicable one. It was commemorated by the conferring of an Honorary Doctorate of Science on the Chancellor of the University of New England, Sir Earle Page.

The state of development of the College by this watershed year of 1959 is worth examining. Basden was still Warden (as well as Principal of the Technical College) and Auchmuty Deputy Warden; Renwick was Head of the Department of Commerce; and J.F. Foley was Registrar. The Department of Science was under the headship of Associate Professor J.A. Allen, a chemist, the Department of Technology under Associate Professor E.O. Hall, a metallurgist, and the Department of Arts under Associate Professor J.B. Newton-John, whose subject was German. The associate professorship in engineering was not filled until a year later when Dr. E.M. Goodey arrived from England; meanwhile, G.J. Hegarty, H.G. Middlehurst and A.K. Johnston were in charge respectively of civil, electrical and mechanical engineering. E.C. Parker was the sole full-time member of a Department of Architecture. The academic staff numbered nearly 80, and the student body a few short of 1,000, including 400 in degree courses and 35 enrolled for higher degrees.

Although there were many who would have disagreed at the time, Professor Baxter was firmly set on the road to self-government for Newcastle. In the submission to the Murray Committee dated July 1957 -- a document which, though not confidential, was not publicly available -- he wrote:

It is clear that University education in Newcastle is evolving towards the creation of an autonomous university in that city. It is not certain how long it will take for the present College to grow to the size where it will warrant the award of a charter and full independence. Such a decision will be the responsibility of the Government of New South Wales, and will involve the provision of finance on an appropriate scale at the time the decision is made. In the meanwhile, the University of Technology, in its conduct of the affairs of the College, is building up its staff and experience so that when the time for autonomy comes as much preparation for it as possible will have been done.
The States Grants (Tertiary Education Assistance) Amendment Bill 1983, which was introduced in the Commonwealth Parliament on November 17, 1983, has been closely examined by the Australian Vice-Chancellors' Committee. The Committee has noted in particular the following amendments:

- additional recurrent grants to increase participation in the universities and advanced education sectors;
- the inclusion of an equal opportunity condition attached to financial assistance to a State;
- the removal of the national unallocated grants previously provided to fund those universities and colleges of advanced education for which amalgamation proposals were pending;
- the reduction of 25 per cent in recurrent grants for student residences, and
- the reduction in the total appropriation for Research Centres of Excellence following the closure of one Centre.

The AVCC noted that the Minister for Immigration and Ethnic Affairs has approved new immigration procedures for staff appointed from overseas by universities and colleges of advanced education.

The AVCC Executive met with the Executive of the Australian Universities Graduate Conference and discussed University/Graduate matters in general terms and several projects in some detail, including the holding of a Graduate Relations Workshop, a National Graduate Magazine, the AVGC Annual Meeting 1984, future meetings between AVGC and AVCC Representatives and Australian Bicentennial Celebrations.

The AVGC was represented by Mr. P.J. Miller, President (Newcastle University), Dr. R.H. Syred, Vice-President (Sydney University) and Miss E.M. Kane, Vice-President (Australian Federation of University Women).

The AVCC noted the implications of the Government's guideline to the CTEC that the collegiate residential student subsidy be reduced by 25 per cent in 1984, pending a review by the Commission of future arrangements for support for student accommodation.

In the light of the 1983/84 Federal Budget decision to increase the TEAS "living away from home" allowance by only approximately $5 per week in 1984, the AVCC has agreed to write to the Minister for Education and Youth Affairs advising her of the AVCC's concern at the impact of the Government's decisions and suggesting that the TEAS "living away from home" allowance be further increased in 1984 so that some students (especially needy country students and those required to live away from home) are not disadvantaged.

The AVCC will sponsor a meeting of the Chairman of Professorial Boards (or their equivalents) in May, 1984, at the University of Queensland and a meeting of University Information Officers at the ANU probably in May, 1984.

New Number

From December 13 the Mater Misericordiae Hospital telephone number will be 67 9321. For direct dialling outside callers should telephone 679 and then the appropriate extension number.

IUPsS in ICSU

The International Union of Psychological Science (IUPsS) has been recently admitted to the International Council of Scientific Unions (ICSU). This move is a further step in the recognition of the discipline of psychology as a scientific discipline and as such has been welcomed by academic psychologists in Australia. The University of Newcastle was the first university in New South Wales and the second in Australia to incorporate its Department of Psychology into the Faculty of Science for administrative purposes. It was followed by the University of New South Wales and the University of Sydney. The admission of IUPsS into ICSU confirms that these changes are part of a worldwide trend.

One complication has arisen in Australia and some other countries because of this move. Countries which support IUPsS must contribute towards its membership fee for ICSU. The sum involved ($1,500) is not large but because of delegations from the Commonwealth Government the body responsible for international connections in Science is the Academy of Science. However at the Academy level the discipline of psychology is included in the Academy of Social Science and not the Academy of Science. Temporary arrangements have been made so that Australia can meet its obligations in 1983/84 and the matter is being examined by the Inter-Academy Committee.

The IUPsS plans to hold its 1988 Congress in Sydney and this event has been recognised as part of the Bicentenary Celebrations. The Psychology Congresses are held every four years and usually attract memberships of the order of 5,000 psychologists. The Society organising committee, established by the Australian Psychological Society, includes Dr. P. Pfister of this University as Secretary.
Off to CUBA

Three staff members from the Department of Education are included in an Australian group which will visit Cuba early next year.

The 70 members of the group -- academics, trade unionists, teachers and other workers -- are paying their own fares. They will be given transport, food, accommodation and medical care in Cuba in exchange for eight days' manual work.

Mr. Robert Mackie, Mr. Pran Chopra and Professor Theo MacDonald are keenly interested in Caribbean and Third World countries. Whilst in Cuba pursuing this interest, they will also be attempting to strengthen cultural and educational links between Cuban and Australian institutions.

Professor MacDonald, who speaks Spanish fluently and includes lectures on Cuban Education in his department's Comparative course, last visited Cuba in 1973. The tour will be Mr. Mackie's and Mr. Chopra's first of Cuba.

Sponsored by the Australia-Cuba Friendship Society, the visit will be the first made to Cuba by such a large group of Australians. It will last from January 13 to February 14. The touring group will travel under the name, The Eureka Working Brigade, and will be led by Dr. John Batcherton, Head of the School of Latin and American studies at the University of New South Wales.

The Department of Education representatives intend to visit Havana, the capital of Cuba, which contains about two million people, and, armed with a letter of introduction from the Vice-Chancellor, Professor D. George, they will seek to have a meeting with the Rector of the University of Havana. The University, founded by Dominican friars early in the eighteenth century, presently has about 29,000 students.

Cuba possesses a further three universities and numerous specialised educational institutes and the visitors will see several of them, if possible.

In order to carry out the manual work, they will be attached to a construction site for four days and spend another four days fruitpicking. They have also agreed to give talks about Australia and an Australian "fiesta". So that they can accomplish the latter, they will make cassettes of Australian folk music, with help from 2NUR-FM, and take them with them.

Mr. Mackie added that the visit should give the Australians a valuable insight into Cuba's perception of Australia and help the visitors to come to terms with the US's massive phobia on Cuba.

Advertisement

For Kent

Three bedroom fully furnished brick veneer home plus study at Cardiff Heights is available for rental from December to January, 1985. This home is in a quiet area. Rental: $130 per week. All interested persons are requested to telephone 57 4511 or 26 0283 for further particulars.
Holiday Arrangements

University

The University will close on Friday, December 23 for the Christmas to New Year holiday recess and will re-open on Tuesday, January 3.

University NEWS

This is the last issue for the year. University News will not re-appear until February 17 as the first issue of the New Year, 1984.

Auchmuty Library

During the long vacation ending on February 27 (the first day of First Term), the Library will open from 8.30 am until 5 pm on Mondays, Wednesdays and Fridays and from 8.30 am until 7 pm on Tuesdays and Thursdays. It is closed at weekends.

Auchmuty Sports Centre

Closes on Friday, December 23 and will re-open on Monday, January 9.

Sports Pavilion

Closes Friday, December 23 and will re-open on Tuesday, January 3.

The Union

During the long vacation the Union building will be open from 9 am until 7 pm during the week. Departments of the Union will comply with this opening schedule:

- shops 9 am until 5 pm, Monday to Friday.
- bank agency 9 am until 4.30 pm, Monday to Friday.
- lounge bar Noon until 6.30 pm, Monday to Friday.
- cafeterias (fast food bar) 10 am until 5 pm, Monday to Friday.

Credit Union

The Universities Credit Union Office will close on December 23 and will re-open on January 3. The Office is open between 9 am and 3 pm.

Staff House

The Staff House will close on December 23 and will re-open on February 6, 1984.

A.J. Parker Fund

Murdoch University writes pointing out that a fund has been launched in the memory of Professor A.J. (Jim) Parker, who is well-known to many scientists, particularly chemists.

Jim was the Founding Professor of Chemistry at Murdoch University and Head of the Mineral Chemistry Research Unit.

Since Jim's death last year, colleagues in Western Australia have been working to establish a fitting memorial to his outstanding scientific and academic achievements.

The A.J. Parker Memorial Fund has been launched to establish three undergraduate awards for students in Chemistry or Mineral Science.

Donations to the Fund, which has an initial target of $15,000 are now being received through Murdoch University.

The Fund organisers are led by Jim's successor, Professor Ian Ritchie, and Dr. David Muir, Head of the Mineral Chemistry Research Unit which Professor Parker established.
For Sale

One SINGER KNITTING MACHINE with RIBBER ATTACHMENT in good condition $65 or near offer. One DOUBLE BED ENSEMBLE in good condition $60 or near offer. One DICK SMITH TELEPHONE ANSWERING SERVICE with BEEPER (cost $249 new). This machine has only been used for three months, $185 or near offer. An assortment of DATSUN 180B spare parts is also for sale. If anyone is interested in any of the abovementioned please telephone 43 0371.

1970 HOLDEN KINGSWOOD in excellent condition and is a most reliable car. Registered until July 1984. Asking price: $990. All interested persons are requested to telephone Extension 509.

PIANO, Richard Lipp, iron frame and in good condition. Owner must sell before December 16. All interested persons are requested to telephone Extension 433 and ask for Mark.

1974 DATSUN 180B SEDAN in good condition with new paint work. Owner is going overseas and must reluctantly sell. Asking price: $2,200 or near offer. All interested persons are requested to telephone Hiro Hasebe at Extension 725 or 26 3009.

YAMAHA CN-50 ORGAN with single keyboard with five instrument voices (organ, piano, harpsichord, brass and string) together with stool. There is a 20-month guarantee left and is ideal for beginners. Asking price: $450 or near offer (original price was $650). All interested persons are requested to telephone Hiro Hasebe at Extension 725 or 26 3009.

SPOR TING ROUND-UP

Mr. O’Shea

The selection of the UN’s coach and first grade five-eighth in the Australian Universities’ Rugby Team to tour Great Britain and Ireland early next year is a good performance by a small university.

Mr. Brian O’Shea, Lecturer in Accounting, will hold the position of coach and selector for the Australians and Nick Wright, Commerce I student, will take the place behind the posts.

Australian Universities depart from Sydney on January 9 to fly to England. The team will play Cambridge University at Cambridge on January 18, Combined Welsh Students at Cardiff on January 20, Combined Scottish Students at Aberdeen on January 25, the University of Newcastle-Upon Tyne on January 29, Loughborough College on February 1, a college team in Dublin on February 4, a university team in Belfast on February 7 and Oxford University at Oxford on February 11. The team returns to Australia on February 13.

Mr. O’Shea has been a member of the National Coaching Panel since 1976. His experience includes 12 years’ coaching Combined Newcastle and six years’ coaching the University’s First XV. Since 1975, Mr. O’Shea has been coach of four universities teams on overseas playing tours.

He has also served as a selector for Newcastle, Combined N.S.W., Country, Australian Universities and New South Wales.

Nick Wright comes from a wheat farm at Woodstock, near Cowra. He learnt his Rugby at King’s School in Sydney. Last year he was Captain of the Combined GPS Team and represented Combined N.S.W. Schoolboys. During his first season with the UN’s First XV he was selected to play for Combined Newcastle.

Members of the University Tae Kwon Do Club will participate in an end-of-year grading of belts, including the first degree Black Belt. All those being tested are members of the HWA RANG Tae Kwon Do Academy, and are registered with the World Tae Kwon Do Federation (under whose regulations the grading will be conducted).

University members testing for Black Belt are Kay Stone (a University Blue in Squash), Jeff Dahms (fourth year Medicine), Jim Peng (second year Engineering) and Graham Ingram (honours Geology), as well as Jeremy Kang (Art, NCAE).

The grading will take place at the Art School Hall (Cnr. Union Street and Parkway Avenue) on Sunday, December 11, at 3 pm. All spectators are welcome.

The annual "Masters" confrontation will be enacted on Constable Bowling Club’s Greens on Friday, December 16, from 1 pm until 4 pm. Students and staff who wish to participate should contact Jock Armstrong (Extension 469) prior to the event.

Our Men’s A1 Squash Team, comprising Michael Sinclair, Trevor Harvey, Greg Worlington and Terry McLennon, convincingly defeated the Cardiff No.1 team, viz, John Edwards, Eric Butler, John Dumont and Greg Hitchcliffe, three rubbers to one. Final scores were 3-1, 3-0, 3-2 and 1-3. Congratulations to the A1 Grade Spring Pennants Champions. Our ladies also performed spectacularly in winning their C3, D1 and D3 competitions — well done.
AUCHMUTY MEMORABILIA

Professor James Auchmuty, the Foundation Vice-Chancellor, was always close to University sport. When he died in 1981 he left a fascinating collection of sporting memorabilia.

The memorabilia are now preserved and exhibited in the foyer of the Auchmuty Sports Centre, where work has been completed on extensions valued at about $150,000.

The Vice-Principal, Professor Ken Dutton, welcomed guests when Mrs. Auchmuty performed the official opening of the extensions on November 24. He said that these days it was a rare pleasure to inaugurate new capital works at the University.

Among those at the opening were the University's recently retired Amenities Officer, Mr. Harry Bradford, and his successor, Mr. Ian Iakin, Sport and Recreation Officer.

The President of the Sports Union, Professor Barry Boettcher said that the extension project was financed by the Sports Union and the Sporting Facilities Committee. Gone were the days when the Federal Government provided university clubs with funds for new sporting facilities.

Professor Boettcher thanked Mrs. Auchmuty for having donated the personal sporting effects of Professor Auchmuty, a man, he said, members of the University held in tremendous esteem.

Mrs. Auchmuty said that her husband had always felt that sportsmanship as well as scholarship was an important part of a University student's experience.

The extensions to the Auchmuty Sports Centre enlarge the weight-training room by about 50 per cent and also provide a spa, sauna, rest room, showers, toilets and an external terrace. The work was done by Civil & Civic Pty. Ltd., on Instructions from the University's Property Division.

The University of Fiji has invited university clubs in several sports, from around the South Pacific to send teams to an inaugural South Pacific University Games. The Games will be held at the University of Fiji over 10 days in early February, 1984.

The Mens' and Women's Hockey Clubs are sending a group of about 30 players, Australian Hockey at least, will be well represented with about eight universities sending players. The group will stay on campus at the University of Fiji and everyone is looking forward to competing against teams from other countries and generally having a great time -- possible cyclones permitting!!

The tentative date for the Vice-Chancellor's Regatta or "Day on the River", is Sunday, March 11, 1984 and the venue -- The University Aquatic Centre, King Street, Raymond Terrace. Mr. Tom Osborn (Extension 596) will answer enquiries relative to training sessions, availability of shells, composition of boat crews, etc. on application.

The annual community Five-A-Side Round Robin Indoor Soccer Competition, which is being conducted during the vacation period in the Auchmuty Sports Centre, commenced on Monday, December 5. An entry of 112 teams will compete. Daily hours of play, Monday to Thursday, are from 6 pm until 10,30 pm. The services of the Soccer Referees' Federation are appreciated.
CONVOCATION MEMORANDUM

Standing Committee on Convocation shall meet at 3:00 p.m. for the preliminary meeting at the University Club on Monday, May 4th. The meeting will be held in the Board Room. All members of Convocation and all of the University are invited to attend. The agenda will include reports on the matters of the committee and any other matters that may be presented. All members are encouraged to attend and make their presence known.

[Signature]
Convocation Chairman

[Signature]
Convocation Secretary

[Stamp]

[Stamp]

[Stamp]

Main Office: 12th Floor, University Tower, 1800 N. Michigan Avenue, Chicago, IL 60611

All purchases may be made at the Public Safety Office, 11am - 5pm. The public safety office is located between 8:30am and 5pm.

[Stamp]