



THE UNIVERSITY OF WOLLONGONG

CAMPUS NEWS

A WEEKLY INFORMATION SHEET

30 JULY, 1982.

Deadline for copy: 12 noon Monday.

Distributed each Friday.

Editor: Giles Pickford, tel. (042) 282428.

Burton's States Of Excitement

Dr. Peter Burton has just returned to the University from seven months study leave in West Germany where he held a research appointment as Guest Professor in a multicampus special research unit ("The Chemistry of Excited States": one of about 50 sponsored by the German Research Society), centred at the Universities of Bonn and Wuppertal.

Dr. Burton commented that the German style of funding a group of senior collaborators working in a designated area across University boundaries - had promoted a great strength to both pure and applied research in West Germany, and provided an extremely stimulating environment for his own research there in the computer modelling of molecular behaviour.

The quest to design computer based models of molecules that behave (mathematically) as real molecules has been the subject of his research at Wollongong over the last six years. One of the aims of this sort of research is to develop techniques for predicting the behaviour of molecules irradiated with high power laser light, of specific frequencies, with a view to designing new clean (side-product free) and energetically efficient chemical transformations for industrially or pharmaceutically important chemicals.

Following his attendance at several national and international conferences while on leave, Dr. Burton commented that many scientists were beginning to share his mood of great excitement that theoretical techniques were just now reaching that threshold of reliability that is required before they become part of the working routine of the chemical manufacturing process. In other words Theoretical Chemistry was becoming "respectable". He said that much of the recent progress towards this goal had been made possible by the development of high speed computers and very efficient computer programmes.

Just before returning to Wollongong, Dr. Burton said he had the opportunity of meeting the two 1981 Nobel Laureates in Chemistry at the 4th International Congress in Quantum Chemistry in Uppsala, Sweden. He said that the Nobel prize is the recognition of a field of research, as much as an accolade to particular individuals, and this illustrated the newfound "respectability" of Theoretical Chemistry. This was not to say that the quest for understanding of molecular behaviour was new, quite the contrary, as is shown by a few details about the Nobel Laureates, Professor K. Fukui

and Professor R. Hoffman, and their contributions to fundamental knowledge in science. Both were cited by the Nobel Committee for their work in understanding the paths that organic chemical reactions follow.

Roald Hoffman, chemistry professor at Cornell University, worked with the late Robert B. Woodward, also a Nobel laureate, to develop orbital symmetry theory as a means for predicting how certain organic reactions would proceed.

This theory uses the complex mathematics of quantum mechanics to show that the symmetry of electron orbitals determines, in part, the products of certain addition reactions. The theory is complex, but these two chemists were able to express it as a series of pictorial rules that any organic chemist could use. The rules have spawned new reactions that have added to the repertoire of the synthetic chemist.

Woodward and Hoffmann's work was based, in part, on the pioneering theories of physics professor Kenichi Fukui, Kyoto University. In 1954, Fukui published his theory that the site and rate of reactions that depend on the geometry of electron orbitals are based on characteristics of only two of the many orbitals in each reacting molecule. The theory was presented in the form of complex quantum mechanical equations that most organic chemists could not understand.

In 1964, Hoffman and Woodward extended the theory and presented it in simple-to-use form. This led to the wide acceptance of molecular orbital theories, as they are commonly called, as a predictive tool for the synthetic chemist. It also led Fukui and other scientists to further develop the theoretical grounds for these rules based on Fukui's original deductions.

The Nobel Prize in Physics in 1981 also dealt with chemistry and quantum mechanics. Physics professors Nicolaas Bloembergen of Harvard University and Arthur Schawlow of Stanford University were credited with their work in laser spectroscopy, while physicist Kai Siegbahn of Uppsala University in Sweden was cited for his development of electron spectroscopy for chemical analysis (ESCA). Both spectroscopic tools were developed using quantum mechanics and fundamental molecular theories, but have now become conventional tools for the chemist studying the behaviour and properties of atoms and molecules.

University Day

The University will celebrate two achievements on Friday 13 August, 1982: the seventh anniversary of its independence and its federation with the Institute of Education. Festivities will occupy the day and the night and a programme is set out below. Staff, students, members of Council and members of the Friends of the University are all welcome at all events.

9.30 am Breakfast on the lawn (Union Courtyard). Champagne and chicken will be provided through the generosity of the Union.

10.30 Formal Tree Planting ceremony (Northern side of Pentagon). Official guests will help plant a grove of twenty trees to commemorate federation. Also at the ceremony the Vice-Chancellor will present the Lord Mayor with a gift of books from the University.

Staff Changes and Movements

APPOINTMENTS

Miss S. Gelvin, Technical Officer, Biology.

RESIGNATIONS

Ms. A. Cardemil, General Library Assistant, Library.
Mrs. J. Hiddlestone, Tutor, Psychology.

STUDY LEAVE

Dr. Z. Herceg, Electrical and Computer Engineering.
Outside Studies Programme, 19/7/82 - 19/9/82
Local Studies Programme, 20/9/82 - 3/12/82.

Professor R. Johnston, H.P.S.
Local Studies Programme, 19/7/82 - 31/10/82
Outside Studies Programme, 1/11/82 - 5/12/82.

P.S.A. SECONDMENT

Reg Wilding, Printery Services, has been seconded to the Public Service Association of N.S.W. for a period of 6 months, with possibility of further extension. During the secondment Reg will service a Committee which is looking into the structure of the Association.

7.00 pm University Day Symposium (Pentagon Theatre 1). Topic: "The Future of Wollongong" chaired by the Chancellor. Speakers include John Clarke, General Manager of A.I. and S; Graham Roberts, President of the Federated Iron Workers Association and Malcolm Booth, General Manager of Metal Manufacturers.

8.00 pm Federation Dance (Union Hall). The University, S.R.C., S.A.C. and Union have combined efforts to put on this dance. Free to students, staff and members of the Friends to celebrate Federation. Don't miss out on the fun and entertainment. (Details of free tickets will be in the next issue of Campus News).

Distinguished Visitors

VISIT BY DR. EDWARD COWIE

The distinguished young British composer Dr. Edward Cowie is to visit the University of Wollongong for three days from Tuesday August 10th. Dr. Cowie is currently spending a short period as composer-in-residence at the Sydney College of the Arts. During his Australian visit, Dr. Cowie is working on an opera based on the legend of Ned Kelly. The work has been commissioned by Covent Garden and is scheduled for its premiere there in 1984. Australian artist Sidney Nolan, famous for his Kelly paintings, will be designing the opera.

During his visit to Wollongong University, Dr. Cowie will address students in the Australian Studies course as well as those studying in the performing and visual arts. A public lecture on Wednesday 11th August, 5.30 - 7.00 p.m. on "Kelly - The Man, The Legend and the Opera", will be held in the Music Auditorium, Institute of Education.

Besides being a gifted and busy composer, Dr. Cowie is something of a Renaissance-style man, all the more remarkable for one only 37 years old. He is in demand as a conductor and lecturer, and is currently writing a book. He is also a respected and published ornithologist and whilst in Wollongong will be given the chance to observe the local fauna. Yet another talent is that of painting, and an exhibition of some thirty watercolours by the composer will be held in the Northern Lounge of the Union. The exhibition is to be opened on Tuesday 10th August by Mr. Frank McBride, Director of Wollongong Art Gallery.

Dr. Cowie holds the following degrees: B.Sc. (London), B.Ed. (London), B.Mus. (Southampton), Ph.D. (Leeds), D.Mus. (Southampton), LTCL (London).

Further enquiries: David Vance, Music Development Officer (ext. 430).

Campus Community Interface

GRADUATES GROUP PLANS REUNIONS

Ald. Keith Phipps, the Chairman of the Graduates Group within the Friends of the University, will ask staff and graduates for feedback about the idea of holding reunions of graduates every five years. The Group hopes to organise a reunion of graduates who finished in 1978 (i.e. those who graduated at the 1979 ceremonies).

The '78 Reunion, if feedback is positive, will be held on 12 November, 1982, which is the last day of lectures, and a good time to let off steam. It will begin with pre-dinner drinks in the Departments themselves followed by the '78 Reunion Dinner in the Union Hall.

Ald. Phipps said that the aim of the reunions would be twofold:

- * to enable graduates to keep up to date with developments at their University;
- * to enable staff to keep in touch with graduates and find out how they are doing in the wide world.

GRADUATES GROUP EMPLOYMENT BULLETIN

The Graduates Group will produce another Bulletin of graduates seeking employment. The Bulletin is circulated widely amongst Friends and prospective employers including the Institute of Personnel Management of Australia.

The next Bulletin will be produced in October 1982; interested graduates should send a short biographical note (including what kinds of work they are seeking and in what geographical areas) to Mr. Giles Pickford, Executive Officer, Friends of the University, PO Box 1144, Wollongong, NSW 2500.

GRADUATES GROUP SPONSORS CHESS COMPETITION

Ald. Keith Phipps announced that the Graduates Group will be sponsoring the Friends Simultaneous Chess Competition against the City of Sydney Champion, Mr. Fred Flatow.

The competition will be held on Sunday, 29 August, at the finish of the Festival of Wollongong Parade. About 30 local players will pit their wits against Flatow, whose honorarium is being paid by the Graduates Group.

PLANETARIUM DELEGATION

The Member for Wollongong, Mr. Eric Ramsay, has arranged for a delegation of Wollongong citizens to call on the Minister for Education and the Minister for Sport and Tourism to discuss the proposal for a Planetarium in Wollongong.

The delegation will call on the Ministers on 15 September, 1982. The Illawarra Planetarium Society will be represented; and the Friends will be represented by Mr. Malcolm Booth, Chairman of the Projects Committee and Mr. Giles Pickford, Executive Officer.

ECONOMIC FORECASTING IN THE MEDIUM TO LONG TERM

The Department of Economics and the Friends have responded to a call expressed in a "Mercury" editorial on 22 July. The "Mercury" called for a dispassionate and objective forecast of the economic trends in Illawarra in the medium to long term. The community needs information of the best possible quality so that investment and commercial decisions can be based on an informed understanding of what is happening to the economy of Illawarra.

An economics team will prepare a study outline for consideration by the Projects Committee and the Uni-advice Committee of the Friends. The study will go ahead with inputs being made by industry leaders, union leaders and senior public servants involved in the Friends organisation. It is hoped that the Report will be ready for publication in March 1983.

COMMITTEE CHANGES IN THE FRIENDS

The Board of Directors of the Friends is investigating setting up a Bequests and Benefactions Committee, within the Committee structure of the Friends. The Chairman of the Board, Dr. Ken McKinnon, said that the older universities in Australia were well served by many benefactions that had been given to them over the years by citizens who wished to improve the range and quality of University enterprise in Australia. Younger universities like Wollongong, needed to generate this type of support as a long term goal, he said.

The Graduates Group within the Friends has been promoted to full Committee status reporting direct to the Board. Previously the Graduates Group was a sub-committee of the Membership Committee. Membership Chairman, Ald. Frank Arkell, congratulated Keith Phipps of the Graduates Group on the successes that have been achieved by the Graduates Group. The group now has 65 members and accounts for about 25% of the total membership of the Friends.

FRIENDS BOARD SUPPORTS THE ARTS

The Board of Directors of the Friends have resolved to donate \$500 towards the Theatre South P.D.S. Theatre Appeal. This will ensure that the Friends will "own" two seats in the new Theatre.

The Board also resolved to donate \$250 to the Festival of Wollongong.

Earlier in the year the Membership Committee of the Friends conducted a fund raising campaign amongst the members and raised \$3,000 which was used to sponsor the Theatre South Play "The Diggers Darling". The play has now been seen by 3,300 theatre goers.

Theatre South Director, Des Davis, reports that "The Diggers Darling" was an outstanding success. "A new playwright has been given a valuable opportunity, a new play has been discovered, a Wollongong hero has been given his due, Theatre South has confirmed its community identity, it has won a new audience, and we have forged an enduring relationship with the Friends", said Des Davis. He thanks all the members of the Friends for their interest and support.

Seminars

DEPARTMENT OF EUROPEAN LANGUAGES

The writer Rosa Cappiello will talk on her novel "Paese Fortunato" on 18 or 19 August in Room 2106-7 at 12.30 p.m. Enquiries to Beatrice Henderson, ext. 835.

SYMPOSIUM ON NUCLEAR WAR

To be held all day, Friday 10th September, 1982, with a public forum at night. Speakers will include senior Government spokesman, academics from throughout Australia, a representative of Doctors against Nuclear War, and others. Full details will be announced soon but in the meantime students and staff are urged as far as possible to keep 10th September free. Contact Jim Falk, Department of H.P.S., ext. 406.

DEPARTMENT OF BIOLOGY

Dr. Richard Shine of the School of Biological Sciences at the University of Sydney will speak on "Evolution of viviparity in reptiles" on 17 August at 2.30 p.m. in Room 134, Metallurgy Building

COUNSELLING CONFERENCE

Tenth International Round Table for the Advancement of Counselling will be held at the University of Lausanne, Switzerland 5-9 September 1982. For details contact Ross Walker in the Staff Office.

PACIFIC SCIENCE CONFERENCE

The 15th Pacific Science Congress will be held in Dunedin, New Zealand, 1-11 February 1983. The theme is "Conservation, Development and Utilisation of the resources of the Pacific". Papers are invited. For details contact Ross Walker in the Staff Office.

L'ABRI FELLOWSHIP TAPES

"L'Abri Fellowship is a community where the questions arising out of 20th century life and thought are brought into contact with the answers provided by historical, biblical Christianity. We believe that there is objective Truth in the universe, beginning with the existence of the infinite, triune God of Scripture. We consider that the truth of Christianity is open to discussion, examination and verification and that it encompasses the whole of reality. On this basis of historical, biblical Christianity we believe that those who honestly seek after Truth will find it."

Come listen to tapes of L'Abri lectures and join in discussion on Mondays at 12.30 - 1.30 in Social Sciences 2101. All queries to Jenny Smith, European Languages, ext. 947.

Research Grants

WATER RESEARCH FOUNDATION OF AUSTRALIA RESEARCH GRANTS

The Water Research Foundation of Australia is calling for research proposals for new projects to commence in January 1983.

Application forms and details may be obtained from Dr. R. Wheway, Honorary Secretary, Illawarra Regional Committee of the Water Research Foundation of Australia, C/- The Department of Mechanical Engineering, ext. 460.

AVCC News

The Australian Vice-Chancellors' Committee met on 15 June 1982 at The Flinders University of South Australia and this is a report on the principal matters which were considered at that meeting, and other matters which have been occupying the attention of the AVCC in recent times.

Meetings with Minister for Education:

The Chairman of the AVCC has written to the former Minister for Education, the Hon Wal Fife congratulating him on his appointment as Minister for Aviation, and thanking him for work done on behalf of the universities as Minister for Education.

On 28 May 1982 the Chairman, Deputy Chairman and Secretary met with the new Minister for Education (Senator the Hon Peter Baume) and held discussions on the following matters:

- . Report of the Committee of Inquiry into Management Education.
- . Appointment of a CTEC Chairman.
- . Enquiry into CTEC.
- . Superannuation Scheme for Australian Universities.
- . Conference of University Governing Bodies.
- . Student Assistance.
- . University Funding with Particular Reference to Out-turn Pricing.

As a result of these discussions, the Minister has requested a quantitative statement from the AVCC illustrating the difficulties facing the universities because of the decline in the level of funding, and a statement on the difficulties created by the introduction of prospective funding and suggestions for change to the present system. The AVCC will forward these statements to the Minister in the near future.

On 14 June the Minister met with all Vice-Chancellors.

Meeting with the Governor-General:

On 15 June 1982, His Excellency the Right Honourable Sir Zelman Cowan, Governor-General of the Commonwealth of Australia had lunch with the AVCC in Adelaide. The Vice-Chancellors paid tribute to Sir Zelman for the work he had done as Governor-General and wished him well on his appointment as Provost of Oriel College, Oxford.

Meeting with South Australian Federal Parliamentarians:

The AVCC met with Senator Baden Teague and Mr Chris Hurford, MP, on 15 June 1982 and a number of matters were discussed including the inquiry into tenure being conducted by the Senate Standing Committee of Education and the Arts, financial matters and the image of universities.

Report of the Committee of Inquiry into Management Education:

The Minister for Education established a Committee of Inquiry into Management Education in April 1980, to investigate the availability and effectiveness of courses for middle and top management, the manner of financing management education and the special needs of small business. The AVCC has discussed the Report and has informed the Minister for Education that the Government should work with and through CTEC in deciding its response to the Report.

Inquiry into Academic Salaries:

The Academic Salaries Tribunal has agreed to respond to the submission from the Federation of Australian University Staff Associations, the Federation of College Academics and the New South Wales Teachers' Federation, and to conduct an inquiry into academic salaries. Hearings will be held in Melbourne on 14-16 July and in Sydney on 20-23 July, and the AVCC has now approved the case it will place before the Tribunal in response to these submissions.

Graduate Careers Council of Australia:

The Australian Vice-Chancellors' Committee and the Australian Conference of Principals of Colleges of Advanced Education (ACOP) jointly fund the activities of the Graduate Careers Council of Australia (GCCA). The AVCC and ACOP have recently reviewed the activities of the GCCA and, as a result, new terms of reference, certain organisational changes and the establishment of the GCCA as an incorporated body with control over its own finances have been agreed upon. It is felt that these changes will contribute to the continued effective operation of the GCCA.

Inter-University Committee on Research Corresponding Members:

The AVCC has decided to hold a meeting of the Corresponding Members of the Inter-University Committee on Research in August 1982 to discuss matters relating to university research in general, and research funding in particular.

Administrative Staff Conference 1982:

The 1982 Administrative Staff Conference (Registrars and Bursars), sponsored annually by the AVCC, was held at the University of Sydney on 10 and 11 May under the Chairmanship of Mr J.D. Butchart (Registrar, Monash).

Australian Universities' International Development Program:

The AVCC has received a report from Professor D.E. Tribe, Director of the Australian Universities' International Development Program (AUIDP) on recent developments in respect of the AUIDP's activities in Southeast Asia. The AVCC

- has given its support, in principle, for the management by AUIDP of an expanded fellowship program;
- has agreed to suggest to universities that, in future, when the co-operation of particular Australian universities is sought in making academic appointments, AUIDP should always be represented appropriately on the selection committee;
- will offer advice on ADAB's policy on "freedom to publish" documents prepared in connection with work performed under the aegis of AUIDP;
- has agreed to a review being undertaken of the cost sharing arrangements between universities and AUIDP covering appointment and secondments for short and long term activities overseas;
- is reviewing the staffing arrangements for AUIDP.

Australian Bicentennial Celebrations:

Following discussions between the AVCC Executive and the General Manager of the Australian Bicentennial Authority (Dr D.P. Armstrong), the AVCC has presented proposals to the Authority on possible contributions of the universities to the Bicentennial celebrations as follows

- The Commonwealth Universities Congress and Associated Meetings.
- A History of Australian Higher Education (or the Universities) which might stress the Australian universities' contribution to national development and to the development of other countries, notably those in South-East Asia.
- A television series on the Australian Universities highlighting their history, their scholarship and their contribution to national development.
- A Scheme of Bicentennial University Postdoctoral Research Fellowships.
- A Series of Symposia on matters of special national interest.
- A Travelling Art Exhibition of selected works of art from the universities' collections.

Review of Student Finance:

The AVCC has repeatedly requested the Commonwealth Government to undertake a review of student finance including TEAS, postgraduate awards, fees and loans. As the Government has now indicated that it is unwilling to do so, the AVCC has decided to carry out its own review of student financing. This review will draw on recent studies and inquiries made both by the Government and other bodies, and it is expected that the results of the review will be presented to the Government towards the end of the year.

AVCC Research Booklet:

The AVCC has prepared and given wide distribution to a research booklet highlighting some significant research programs being undertaken in Australian universities. The booklet will be distributed to all Members of Parliament (both State and Commonwealth) and throughout the community. Programs listed give an indication of the high standard of research being undertaken in Australian universities.

Scholarships and Prizes

JAPANESE GOVERNMENT (MONBUSHO) SCHOLARSHIPS 1983

The Japanese Government is again offering a limited number of undergraduate and research scholarships to Australians for study at Japanese universities. The scholarship pays 166,000 yen per month plus air fares and other allowances.

Enquiries to the Department of Education (Mr. N. Monaghan), telephone (046) 891333.

SIR ROBERT MENZIES MEMORIAL SCHOLARSHIPS IN LAW AND MEDICINE

The above scholarships are tenable in the United Kingdom and are open to people of 21 to 35 years of age. Closing date for applications is 30 September, 1982.

Enquiries to the National Executive Officer, The Sir Robert Menzies Memorial Trust, Clarendon Terrace, 210 Clarendon St., East Melbourne, telephone (03) 4195699.

EDGWORTH DAVID MEDAL

Nominations for the Edgworth David Medal for outstanding young scientists close on 30 September, 1982, with the Hon. Secretary, Royal Society of New South Wales, 35 Clarence St., Sydney, N.S.W. 2000.

FULBRIGHT AWARDS

The Australian American Educational Foundation is calling for applications for the positions of Senior Scholar, Junior Researcher/Lecturer, Postdoctoral Fellow and Postgraduate Student. All posts are tenable in the United States of America in 1983.

Enquiries to N. Monaghan, Department of Education, telephone (046) 891333. Closing date for applications is 30 September, 1982.

ARTHUR YOUNG RESEARCH SCHOLARSHIP

Applications are invited for the Arthur Young Research Scholarship in the field of EDP Audit tenable at Deakin University. The Scholarship, valued at \$12,000 per annum (tax free) is open to any graduate from a three year (at least) full time tertiary program of an approved educational institution, and commercial experience in audit will be highly regarded.

The Scholarship is intended to support new research initiatives by Professor Brian Garner, who was appointed from industry, to the Foundation Chair in Computing. Collaboration with staff of the School of Management may also be necessary. The research program is expected to involve joint activities with a number of major companies, and the work is expected to be suitable for the submission of a thesis for a higher degree.

Current research topics include the use of operating system logs to produce a standard audit file and the auditability of small business systems. The audit of database systems is also of interest.

In addition to the Scholarship of \$12,000 travel expenses incurred as a requirement of the research activities will be reimbursed up to a maximum of \$500 a

year. Subject to evidence of satisfactory progress, the Scholarship will be renewed annually up to a maximum of three consecutive years.

Applications should quote the Arthur Young Research Scholarship in EDP Audit and include a full curriculum vitae (including previous academic transcripts) and the names and addresses of appropriate referees. Enquiries must reach the Secretary, Graduate Studies and Research Committee, Deakin University, Vic. 3217, by 31st October, 1982.

THE LEGACY CLUBS OF AUSTRALIA SIR JOHN GELLIBRAND MEMORIAL POST GRADUATE SCHOLARSHIP

The Sir John Gellibrand Memorial Post Graduate Scholarship was founded in 1947. The funds for the Scholarship are contributed by every member of Legacy throughout Australia.

The Scholarship is awarded every two years to a graduate from one of the States of the Commonwealth of Australia in turn.

The Scholarship for the year 1983 will be awarded to a graduate, who is domiciled academically in NEWSOUTH WALES.

The Scholarship is valued at \$A5,500 per annum to provide for tuition and living costs. The amount of this Scholarship may be increased at the discretion of the Co-ordinating Council of Legacy Clubs of Australia.

Applications must be made on the prescribed form, and sent to: The Executive Officer, The Legacy Club of Sydney, P.O. Box E5, St. James, New South Wales, 2000, telephone 267-9155, endorsed "Sir John Gellibrand Scholarship - Confidential". Applications close 30th September, 1982.

RADIO RESEARCH BOARD POSTGRADUATE SCHOLARSHIP

In order to encourage graduates of the highest calibre to carry out full-time research in the area of radio and telecommunications sciences leading to the award of a PhD at an Australian university, the Radio Research Board (RRB) is offering postgraduate scholarships for the 1983 academic year.

An RRB Scholarship is worth \$10,000 per annum (plus certain expenses) and is expected to run for three years subject to the successful progress of the Scholars.

Applicants must be under 25 years old, have Australian citizenship or be permanently resident in Australia, and have, or expect to gain, a first class honours degree or equivalent in an appropriate discipline.

Persons interested in applying for the above Scholarship should obtain application forms and a statement of the conditions from the Secretary, Radio Research Board, PO Box 225, Dickson, ACT, 2602.

Applications close on 17 September, 1982, and in the normal course of events candidates may expect to be advised on the outcome of their applications before the end of December 1982.

WEIZMANN INSTITUTE FUND

With the generous support of the Australian Association for the Weizmann Institute of Science in Israel, the Academy has established a fund to provide collaboration between Australian scientists and The Weizmann Institute of Science.

Grants may be made in any field of the natural sciences to support visits either way - Australian scientists visiting The Weizmann Institute, or scientists from The Weizmann Institute visiting Australia.

Grants are made by the Council of the Academy on the advice of an Advisory Committee.

Applications to visit The Weizmann Institute, or to sponsor a visit to Australia from The Weizmann Institute may be submitted at any time and the result will usually be known within two months.

Applications should be submitted to: The Executive Secretary, Australian Academy of Science, PO Box 783, Canberra City, ACT, 2601, from whom application forms are available.

RUDI LEMBERG TRAVELLING FELLOWSHIP

The Fellowship may be drawn from any field of biology but special consideration will be given to those areas in which Professor Lemberg had an especial interest, namely biochemistry, conservation and the Australian flora.

Fellowships are awarded

- a) to enable overseas scientists of standing to visit Australia and, while based primarily at one centre, to visit other scientific centres in Australia, to deliver lectures and, where appropriate, to deliver lectures to the general public;
- b) to enable Australian scientists of standing to spend a similar period within Australia away from their own institutions visiting scientific centres and delivering lectures, including some to the general public where appropriate.

Fellowships are tenable for visits to and within Australia of not less than two weeks and not more than three months. Overseas and local air fares and a daily allowance are provided.

Fellowships are awarded and the length of tenure determined by the Council of the Academy on the recommendation of a Lemberg Travelling Fellowship Committee which includes two members nominated by the Australian Biochemical Society.

Nominations of candidates to take up Fellowships in 1984 is hereby invited and should be accompanied by a publications list, a sufficiently detailed curriculum vitae to allow an accurate assessment by the Fellowship Committee, and a proposed itinerary. All nominations are confidential and should be addressed to: The Executive Secretary, Australian Academy of Science, PO Box 783, Canberra City, ACT, 2601. Nominations close on 30 September, 1982.

1983 GOTTSCHALK MEDAL

The Gottschalk Medal was endowed by the late Dr. A. Gottschalk, FAA. The Medal was first awarded in 1979, and is normally awarded annually. Its purpose is to recognize distinguished research in the medical or biological sciences by younger scientists. Candidates must be under the age of 36 years (and not Fellows of the Academy) at the closing date for nominations, and their research must have been carried out mainly in Australia.

Nominations of candidates is hereby invited and should include a curriculum vitae, a complete list of publications, and an evaluation of the candidate's work, including comment on his or her role in co-authored papers.

Nominations are confidential and should be addressed to: The Executive Secretary, Australian Academy of Science, PO Box 783, Canberra City, ACT, 2601. Nominations close on 30 September, 1982.

THOMAS RANKEN LYLE MEDAL

The Lyle Medal commemorates the contributions of Sir Thomas Ranken Lyle, FRS (1860-1944) to Australian science and industry generally and his own fields of science - physics and mathematics - in particular.

The Medal is awarded not more than once every two years. Its purpose is to recognise outstanding achievement by a worker in Australia on the basis of research in mathematics or physics. Work carried out during the whole of the candidates' careers may be taken into consideration but special weight will be given to recent work.

The Medal was first awarded in 1935.

Nominations of candidates is hereby invited and should be accompanied by a publications list and a sufficiently detailed curriculum vitae to allow an accurate assessment by the selection committee appointed by the Council of the Academy. All nominations are confidential and should be addressed to: The Executive Secretary, Australian Academy of Science, PO Box 783, Canberra City, ACT, 2601. Nominations close on 30 September, 1982.

1983 PAWSEY MEDAL

The Pawsey Medal was endowed to commemorate the unique contributions to science in Australia by the late Dr. J.L. Pawsey, FAA. The Medal was first awarded in 1967, and is normally awarded annually. Its purpose is to recognize outstanding research in experimental physics by younger scientists. Candidates must be under the age of 36 years at the closing date for nominations, and their research must have been carried out mainly in Australia.

Nominations of candidates is hereby invited and should include a curriculum vitae, a complete list of publications, and an evaluation of the candidate's work, including comment on his or her role in co-authored papers.

Nominations are confidential and should be addressed to: The Executive Secretary, Australian Academy of Science, PO Box 783, Canberra City, ACT, 2601. Nominations close on 30 September, 1982.

Job Vacancies

FLINDERS UNIVERSITY

Chair of Drama and Chair of Computing Science. Closes 17 September.

Lecturer in Psychology and Graduate Assistant in Human Psychophysiology. Closes 16 August, 1982.

Enquiries to the Registrar, Flinders University of South Australia, Bedford Park, S.A. 5042.

MURDOCH UNIVERSITY

Tutor in Environmental Science, Tutor in Physics, Principal Tutor in Mathematics, Internships in small animal medicine or small animal surgery, Internship in food animal health and production. Applications close on 30 September, 1982, with B.I. Ballantyre, Senior Assistant Personnel Officer, Murdoch University, Murdoch, W.A. 6150.

SIMULTANEOUS INTERPRETERS

Conference Interpreter Services are seeking people fluent in French, Spanish, German, Portuguese, Italian, Arabic, Russian, English, Japanese, Mandarin and Korean.

Applicants must:

- have up-to-date language fluency in mother tongue with total comprehension in at least two passive languages. Exceptions will be considered for dual mother tongue (i.e. work both ways between two languages only) or Asian languages.
- be capable of working under pressure in a team situation.
- be available to travel interstate.

Assignments are occasional only and working venue is on site at each international conference.

Experience preferred but not essential. All successful applicants must be prepared to undertake inhouse training or refresher program.

Attractive remunerations offered.

Qualified translators and bi-lingual typists are also invited to register their details for future consideration.

Written applications inclusive of curriculum vitae to: Conference Interpreter Services, (A Division of Tour Hosts Pty. Ltd.), 210 George Street, Sydney, NSW, 2000.

AUSTRALIAN NATIONAL UNIVERSITY

Postdoctoral Fellowship in Carbon Fixation in Eucalypts. Closes 16 August.

Postdoctoral posts in Population Biology, Neurobiology, Molecular Biology. Closes 13 August.

Temporary Tutor and Senior Tutor in Mathematics. Closes 20 August.

Enquiries to the Registrar, A.N.U., PO Box 4, Canberra, A.C.T., 2600.

UNIVERSITY OF ADELAIDE

Research Assistant in Electrical Engineering. Closes 16 July. Enquiries to Personnel Manager, University of Adelaide, GPO Box 498, Adelaide, S.A.

UNIVERSITY OF PAPUA NEW GUINEA

UPNG is interested in seconding staff from Australian universities for short (up to 3 months) and long periods. Under AUIDP (Australian University International Development Programme) the AVCC has agreed that the salary of an Australian staff member engaged for a period of less than 90 days will be paid by the individual's own institution and that there should be no loss of entitlements (long service leave, study leave, etc.) while that staff is in PNG. Under such secondment UPNG pays travel and accommodation costs and a small per diem allowance. UPNG is also interested in short term contracts or visitors positions of more than 90 days for some of the positions listed below. Any enquiries should be directed to Professor D.A.M. Lea, Geography Department, University of New England ((067) 732676 (direct line)) or the relevant head of department at UPNG (Port Moresby 25 3900).

Positions include: L/SL Crop Botanist, Professor of Agriculture, L/SL Electronics, L/SL Geophysics, L/SL Inorganic Chemistry, L/SL Organic Chemistry, L/SL Analytical/Environ. Chemistry, L/SL Statistics, L/SL Econometrics, L/SL Accounting, L/SL Language Educator, L/SL Conservation Dentistry, L/SL Periodontology, L/SL Orthodontics, L/SL Prosthetics.

International News

UNIVERSITY ATTRACTS PUBLICITY IN NOUMEA

An exhibition was held recently in Noumea (New Caledonia) to highlight for local residents the possibility of study in Australian universities. The University of Wollongong supplied a variety of promotional material which attracted a degree of attention.

Increased interest has been shown in the University recently by residents of the Pacific region, particularly Fiji.

LIST OF UNIVERSITY INSTITUTIONS IN THE COMMONWEALTH

Copies of the list of three hundred university institutions in the Commonwealth are available free of charge from the Association of Commonwealth Universities, 36 Gordon Square, London, WC1H 0PF.

Concerts, Exhibitions and Entertainment

THE OFF-SIDE TRAP

by John Scholes

Yesterday Theatre South's second play-reading for 1982 introduced *The Off-Side Trap*, by John Scholes. The play explored the "sacred" game of football from the inside; through the newly-appointed coach of a failing club. Joe Stanton "the King" - transfers from his country team to a team in the Sydney league, but does not anticipate the problems the transfer involves. He was transferred to be a saviour, but he cannot achieve his appointed task. His team stays at the bottom of the ladder. Joe failed.

Through the brutally accurate reporting of Col Matthews the sports writer, Scholes traces the effects on Stanton's marriage and on his wife, of a feeling of failure, previously unknown to him.

The play traced the decline of Stanton "the King", but the growth of Stanton the man, as he experienced, lived through and learned through failure, to make a new life.

The Off-Side Trap is a new play by a local playwright.

WOLLONGONG SYMPHONY ORCHESTRA PRESENTS BEETHOVEN AND BRUCH

One of Australia's foremost international performing artists, violinist John Harding, will be soloist in the Orchestra's next concert at the Wollongong Town Hall, Saturday 7 August 1982 at 8 p.m.

John Harding studied at the New South Wales State Conservatorium with Robert Pikler. In 1970 he founded the Fidelio Quartet and became concertmaster of the Elizabethan Trust Sydney Orchestra. In 1973 he went to the United States, where he studied violin with Joseph Silverstein and conducting with David Zinman. He held the position of associate concertmaster of the New York Metropolitan Opera Orchestra and concertmaster of the Rochester Philharmonic during his U.S. residency.

Since his return to Australia, he has been Artistic Director and Conductor of the Australian Chamber Orchestra, leader of the University of New South Wales Ensemble and first violin in the Sydney String Quartet.

John Harding is in great demand as a soloist and has appeared in this role previously in Wollongong, playing the Bruch G Minor Concerto with the Sydney Symphony Orchestra in a 1981 ABC Concert.

On his return visit to Wollongong on 7 August he will play the Beethoven Violin Concerto in D Opus 61.

Other works to be presented in the August 7 Concert are Beethoven's Egmont Overture and Haydn's Symphony No. 97.

Tickets at \$6 (\$4 concession) are available from Jurjens Pianos, 232 Keira Street, Wollongong - phone 292379, or from any member of the Orchestra.

A wonderful night of music is in store for you, and at the same time you will have the opportunity to witness the progress being made by the City of Wollongong Symphony Orchestra in its re-development.

OPERA ON NED KELLY

The distinguished British composer Dr. Edward Cowie will be a guest at the University of Wollongong from August 10 - 12. During that period he will be talking to various classes within both the Faculties and Institute sectors of the University. Dr. Cowie is also a distinguished painter, and it is intended to mount a select exhibition of his watercolours in the Northern Lounge of the Union Building during his visit.

On Wednesday 11 August at 5.30 p.m. in the Music Auditorium of the Institute he will be talking about his current commission from Covent Garden - an opera based on the story of Ned Kelly. This lecture will be opened to the public - we are calling it "Ned Kelly: The Man, The Legend and The Opera".

ITALIAN FOOD FESTIVAL

The second Italian Regional Food Festival will be held on Friday 13 August, 1982, at the International Centre, 28 Stewart Street. The menu includes cocktail, antipasto, primo, secondo, cake and coffee plus live music and entertainment.

Tickets are \$6.00 and are available from members of the Circolo Italiano, and Beatrice Henderson, ext. 835.

WEDNESDAY CONCERTS

The Centre for the Arts in the Institute of Advanced Education will present concerts every Wednesday at 4.30 p.m. in the Music Auditorium. All readers of "Campus News" are welcome.

On Wednesday 4 August the staff will perform and on 11 August a visiting English composer will be featured.

Sport

SPORTS COURSES

The University Union, in association with Sports Promotions of the U.K., will present Second Vacation Sports Courses for children and young people aged 6 to 18 years.

The courses will go from 30 August to 3 September. Fees are \$55 (\$50 if received before 31 July). Sports taught will be:

Athletics, Aussie Rules, Badminton, Baseball, Basketball, Circuit Training, Cricket, Gymnastics, Handball, Hockey, Jazz Exercises, Netball, Rugby Union, Rugby League, Softball, Soccer, Squash, Swimming, Tennis, Table Tennis, Volleyball and Yoga.

General Notices

UNION BOARD ELECTIONS

Elections for five members of the Union Board of Management will be held on Wednesday 18 and Thursday 19 August. Nominations for these positions close at 5.00 p.m. on Tuesday 10 August.

WATER CONSERVATION ESSAY PRIZE

Year 11 students from 19 Illawarra schools can enter for a prize for the best essay on water conservation. Essays must not exceed 1,000 words, and must reach Dr. Wheway of the Department of Mechanical Engineering before 23 August 1982.

The prizes are 1st \$50, 2nd \$25, 3rd \$20 and certificates for 4th and 5th. A trophy will be presented to the school for the first prize entry.

The prize is sponsored by the Illawarra Regional Committee of the Water Research Foundation of Australia. The essay topic is "Water Conservation - The Australian Problem of Waste and Pollution".

The award will be made during Earth Week, 19-25 September 1982.

IRIS RELEASES INDUSTRIAL DISPUTES STUDY

A study comparing industrial disputes in Newcastle, Sydney and Wollongong has been released recently by IRIS. The 1982 Statistical Guide to the Illawarra region has also been released.

Enquiries to John McKenna (042) 282481 or Room 116 Social Sciences Building.

GRADUATES CAN NOW BORROW FROM LIBRARY

John Shipp has announced that graduates of the Wollongong Institute of Education, Wollongong Teachers' College and of the University are entitled to borrow books from the University Library for a period of one week. Serials are not available for loan.

Graduates wishing to take advantage of this service should enquire at the Library circulation desk.

ADMINISTRATION CALLS FOR FEEDBACK

The University Secretary has issued amendments to the University Management Handbook detailing the administration re-structuring together with a Directory of administrative functions and contact staff. He has called for comments on the content and format of the documents for consideration in future revisions. Enquiries to Challice Moldrich, ext. 892.

HERITAGE WEEK, 1983

Heritage Week, 1983, will be held from April 10 to April 17, and it seems desirable to make a start on planning it as soon as possible.

The Wollongong contribution to Heritage Week in 1982 was an outstanding one, and the University's contribution to that was itself outstanding. With a little longer lead-time for publicity, next year's activities could be much more successful, particularly in attracting people to the campus.

The Friends of the University have arranged for a meeting to be held at 5.30 p.m. on Tuesday, 3 August, 1982, in the Meeting Room in the Hut. This meeting could consider, at least broadly, activities the University might have in Heritage Week, 1983.

A proposal for the 1983 theme is "Illawarra's Industrial Heritage". (For Heritage Week 1984, Wollongong's sesquicentenary, it was thought that there should be a more urban stress in Heritage Week).

The theme of Illawarra's Industrial Heritage would cross the conventional departmental and faculty boundaries, and might include:

- . Local History.
- . The effect of the Industrial Heritage on the biological heritage.
- . Industrial Art (Peascod).
- . Local folk music.
- . The trade union heritage (Assoc. Professor Hagan's Book, Jack Mundy's comments).
- . Mt. Kembla Mine disaster.
- . Leading in the 1980's to Assoc. Professor Upfold's Explosion Gallery.
- . Shale Oil first mined at Mt. Kembla in the 1850's.
- . Construction of a Woolshed on Campus with assistance from Friends and from Technical College Building Students.

The above is a broad outline of the kind of activity that might be developed during Heritage Week 1983. Enquiries to the Secretary/Manager of the Friends, Mr. Ben Meek, ext. 955.

UNIVERSITY PUBLICISED IN ITALIAN LANGUAGE NEWSPAPERS

The Italian staff and the Friends of the University have produced a series of articles which are planned to reach the Italian-Australian community via the two most widely read Italian language newspapers in Australia: "La Fiamma" and "Il Globo".

The aims of the articles are to present a picture to the community of what Wollongong University's attainments have been and are, and what its plans for the future are. The series will also make the community aware of the University's need for support especially in terms of an endowment which would enable it to supplement its Italian teaching staff.

DISADVANTAGED SCHOOLS

The Acting Minister for Education, Mr. Eric Bedford, has released the new Statewide list of disadvantaged schools for 1983.

The sole criterion for establishing disadvantage under new arrangements was the socio-economic situation of parents or pupils.

Among the benefits which disadvantaged schools will receive are a more favourable pupil/teacher ratio and access to additional funds.

The disadvantaged schools in Wollongong and Shellharbour are:

Primary Schools: Barrack Heights, Bellambi, Berkeley, Berkeley South, Berkeley West, Corrimall East, Cringila, Gwynneville, Kemblawarra, Koonawarra, Lake Heights, Port Kembla, Primbee, Scarborough, Tarrawanna, Towradgi, Unanderra, Warilla, Warilla North, Warrawong.
High Schools: Berkeley, Lake Illawarra, Warilla and Warrawong.