



# UNIVERSITY HONOURS VICE-CHANCELLOR

The University's three Graduation Ceremonies will be held on 7th and 8th May, 1981. All the ceremonies will celebrate the achievements of graduands who have devoted many years to their university education. Thursday's ceremony will have one different aspect for it will also mark an achievement which has involved devotion not only to reaching personal goals but also, most importantly, to identifying and pursuing the goals of The University of Wollongong and of university education in general. On Thursday 7th May, the University will confer the Honorary Degree of Doctor of Letters on its Vice-Chancellor, Professor L. M. Birt.

Professor Birt came to The Wollongong University College as its Vice-Chancellor Designate in November 1973 and, in January 1975, he became the Foundation Vice-Chancellor of The University of Wollongong. In the preceding years, Professor Birt had established an impressive reputation as both scholar and researcher. At the University of Melbourne, his studies led to the Degrees of Bachelor of Agricultural Science and Bachelor of Science and culminated in a Doctor of Philosophy in 1957. From Melbourne he went to the University of Oxford where he worked with the Nobel Prize winner Sir Hans Krebs and took out an Oxford Doctor of Philosophy Degree in 1959.

Professor Birt held lecturing posts at The University of Melbourne and The University of Sheffield in the U.K. before becoming Foundation Professor of Biochemistry in the School of General Studies at The Australian National University.

At this time he had become notable for his research involving the Australian sheep blowfly and thus earned his well-known nickname.

In March 1974, the A.N.U. made the then Dr. Birt an Emeritus Professor of the National University and six years later, in January 1980, he received the award of Commander of the British Empire (CBE) in the Queen's New Year Honours List.

All these qualifications and distinctions represent years of dedication and hard work in laboratories and classrooms and, more so in the last decade, in the various venues of committee meetings and conferences. In this University, Professor Birt has worked

## Doctor of Letters

towards the realisation of a true university status, the worth of which would be recognised by the University's peers and the community outside the campus, particularly those living and working in the Illawarra region.

Professor Birt has encouraged the strengthening of the University's teaching and research activities whilst always refusing to compromise the aspirations and standards of excellence which he believes basic to university education. He has established this University's name in university circles in Australia by his own valued contribution to the Australian Vice-Chancellors' Committee, especially its Inter-University Committee on Research; he has been Chairman of the New South Wales Science and Technology Council and was appointed Chairman of the Inquiry into Murdoch University in Western Australia.



The Vice-Chancellor, Professor L.M. Birt.

In the community, Professor Birt's voice has been heard and his views noted in many arenas. Both on and off campus, he has led the way in making contracts to increase the levels of understanding and co-operation between institutions and people.

This has been only a brief and general description of Professor Birt's achievements: the perspective of his work thus far has been neither common nor restricted. It is because he is one of those rare individuals - a superb all rounder - that Professor Birt, educated in the sciences, has well earned a degree usually associated with work in the Arts and the Social Sciences - the Doctor of Letters.

Professor Birt will leave this University in mid-year to take up his appointment as Vice-Chancellor of The University of New South Wales.

# Experts gather for star occasion

This is a big year for astronomy on the University of Wollongong campus. The highlight is the Annual General Meeting of the Astronomical Society of Australia.

It features an opening lecture (9.15 a.m. on May 11, Pentagon 3) by Dr. Sidney van den Bergh of the Dominion Astrophysical Observatory, Canada. He will speak on "The Size of the Universe", followed by shorter papers from Australian astronomers and students active in the fields of cosmology and galaxies. One of these is Mr. Peter J. Quinn, a graduate of this University, whose exciting discoveries about collisions of galaxies and the evolution of the Universe were recently reported on the front page of The Australian newspaper.

On the Monday evening at 8 in Pentagon 1, Dr. David Jauncey of CSIRO will give a public lecture on "A Telescope as Big as the Earth".

At 11.30 a.m. on Tuesday (May 12), there will be a lecture by Dr. J. Paul Wild, chairman of CSIRO, on "Unified Field Theory".

On the Thursday morning (May 14) at 9.30 Dr. Andrew Prentice of Monash University will talk about results from "Voyager" and Mr. David Malin of the Anglo-Australian Observatory will talk on "Astronomical Photography."

By Lindsey Smith\*

Full details of the conference are available from the Development and Planning Office or from Dr. Lindsey Smith, Department of Physics.

The University of Wollongong is also active in providing in-service courses and materials for high schools. The Illawarra Planetarium Society president, Mr. G. K. G. Moore (Physics Department) has prepared an "Astronomy Kit" to help teachers prepare for, and teach, the new astronomy

elective. It includes practical experiments, information about Australian observatories and slides made by the world's best telescopes. The kit will be on display at the meeting.

The Planetarium Society is actively seeking support for the construction of a full-size planetarium in Wollongong. Information can be obtained from Mr. Moore.

The University of Wollongong is also active in the planning and development of astronomy in Australia. Always a leader in radio astronomy, Australia is planning to build a giant "Synthesis Telescope" - seven radio telescopes that work in unison to create the equivalent of a six kilometre telescope.

Future decisions to be made include the question of whether Australia should try to enter space astronomy, whether Australia should combine with America and Canada to build a satellite to be flown with the space shuttle, whether Australia should build an instrument to go on the large space telescope to be flown with the space shuttle and whether Australia should use infrared telescopes on high-flying aircraft. Spokesmen for the various instruments will be speaking at the A.S.A. conference on May 12, at 1.45 p.m.

\* Dr. Lindsey Smith represents the University of Wollongong on various committees that are contributing to decisions made in Australia on the development of astronomy.

## Early research leads to award

Research begun by a member of the University of Wollongong, Department of Metallurgy Staff, won acclaim in the United States in February this year.

Dr. T. Chandra from the Department of Metallurgy, was present at the American Institute of Mining, Metallurgical and Petroleum Engineers (AIME) Conference held

in Chicago last month, where Professor J. J. Jonas received the Garofalo Award for research on metal processing which had been initiated by Dr. Chandra in 1970.

Dr. Chandra had been invited to attend the conference by Professor Jonas so he could be there for the bestowal of the award.

While in America, Dr. Chandra also gave a five-day intensive course on 'Hot Working' of Materials at Stanford University.

The Course, a series of lectures and workshops, was attended by 37 people.

In addition, Dr. Chandra visited Cornell and McGill Universities (the latter in Canada) where he gave technical seminars on HSLA work being conducted in the Department at the University of Wollongong.

Dr. Chandra's trip was funded by the National Research Council of Canada, and the National Science Foundation of the U.S.A.

## WUSSPA kicks off with films

The Wollongong University Staff and Students Philosophy Association (WUSSPA) has been resurrected this year with a keen and active committee. A number of activities are being planned with a series of films first on the list.

The film schedule is as follows:-

24th April - 12.30 - 1.30 - "The Life and Times of Bertrand Russell" (53 mins). 6.30 - 7.45 - "Face to Face" (an interview with Bertrand Russell, 40 mins.) and "Time Is" (an investigation into the concepts of time which should be of particular interest of History of Ideas students), 30 mins.

27th April - 12.30 - 1.30 - "The Life and Times of Bertrand Russell." 7.30 - 8.45 p.m. "Face to Face" and "Time Is" (total 70 mins.)

28th April, 12.30 p.m. - 1.30 p.m. "The Life and Times of Bertrand Russell." 6.30 p.m. - 7.45 p.m. - "Face to Face" and "Time Is."

(All screening in Pentagon 4. Members, potential members and friends of WUSSPA welcome to attend.)

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The Institute for Higher Education presents an opportunity for academics and administrators to participate in a significant workshop entitled "Women in Higher Education" to be held at the University of New England, from 5.00 p.m. 25th May to 4.00 p.m. 28th May, 1981.

Professor Helen Astin, a professor of higher education at the University of California, Los Angeles and Vice-President of the Higher Education Research Institute in Los Angeles will lead the workshop. Professor Astin has a distinguished record as a researcher in higher education; primarily her research has emphasised educational and career development of women and the relationship between education and work.

Helen Astin has been President of the Division of the Psychology of Women of the American Psychological Association and Chairperson of the Association's Task Force on the Status of Women. Currently, she serves on the United States National Council on Educational Research and is a member of the Board of Governors of the Centre for Creative Leadership. Her major publications include:-

- \* Women: A Bibliography on Their Education and Careers
- \* Some Action of Her Own: The Adult Woman and Higher Education
- \* The Woman Doctorate in America
- \* Sex Discrimination in Career Counselling and Education.

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## Conference will look at maths in industry

"Mathematics in Industry" will be one of the themes of the Australian Mathematical Society Applied Mathematics Conference to be held at Bundanoon in February 1982.

The conference is being organised by the Department of Mathematics at the University of Wollongong and representatives from industry in this area.

Designed to stimulate interest and discussion on new research areas both of a scientific nature as well as those arising from industry and the business community, the conference will be attended by scientists, engineers, mathematicians and others, all of whom are interested in applying mathematical theory to problems of practical interest.

# Workshop studies women's roles in higher education

The following is a broad outline of the workshop programme and issues to be discussed:

### Day 1 (26 May) Women in Education in Australia and America.

These sessions will focus on the history of women in higher education, access to university and college, career choice and development, and women's status. Australian academics will present local perspectives.

### Day 2 (27 May) Women In Academe.

These sessions will focus on issues such as the academic and administrative participation of women. The relationship of these issues to legislative thrusts will also be discussed.

### Day 3 (28 May) Solutions and Action.

**Morning:** Participants will work in small groups on topics identified by workshop participants and on issues such as Women's Studies, Adult Re-entry Women, Academic

Personnel.

**Afternoon:** Review of group work, plenary session and close.

Australian speakers at the workshop will be:-

\* Professor Leonie Kramer, Professor of English, University of Sydney (Professor Kramer will deliver the keynote address)

\* Professor Alan Cumming, Professor of Educational Studies, University of New England.

\* Associate Professor Miriam Dixon, Department of History, University of New England.

The workshop fee is \$265 and will provide for fully serviced accommodation, all meals, morning and afternoon teas and workshop materials. Should further information be needed, telephone the Institute office at U.N.E., (067) 72 2911 extension 2581.

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## Uniadvice follows pattern

The research and development arm of the Friends of the University of Wollongong, Uniadvice, is operating on similar commercial terms to other University research and development organisations.

Specifically, contracts, accounts, administration and costs are similar to those of, say, Unisearch (University of N.S.W.).

Insurance of Professional Liability to \$1,000,000 has been arranged with waiver of subrogation rights.

For more details contact Mr. H. V. Brandon, Secretary/Manager, Friends of the University of Wollongong. Tel. 28 2428 or ext. 428.

Every Australian tertiary education institution will be represented and there will be representation from major research establishments in Australia such as C.S.I.R.O. the Atomic Energy Commission, Weapons Systems Research Laboratory and Aeronautical Research Laboratories.

Conference director, Dr. James Hill said the conference was seeking in-put from all sections of the community which could put forward problems of interest to mathematically oriented scientists.

"The conference will also be an opportunity for those employers of mathematically trained personnel to talk with and influence the teachers of future applied mathematicians. We wish to encourage the attendance of industry and business representatives," Dr. Hill said.

One full day of the conference would be devoted to the theme "Mathematics in Industry".



Items for "Take Note" should be forwarded to the Development and Planning Office, Room G08 The Hut (ext.955).

#### SCHOLARSHIPS, GRANTS, AWARDS.

NATIONAL ENERGY RESEARCH, DEVELOPMENT AND DEMONSTRATION COUNCIL invites applications from individuals or organisations for grants in support of energy research, development and demonstration projects. Eligibility for grants will be assessed and recommendations for grants will be made by the National Energy Research Development and Demonstration Council (NERDDC), which will be assisted by a number of Technical Standing Committees. Where necessary, additional expert advice will be sought. Applications close 12 June 1981 but must be lodged at the University Finance Office by 1 June 1981. Forms are available from the Development and Planning Office.

THE RESERVE BANK OF AUSTRALIA invites applications during 1981 for Research Fellowships for applied research into Australia's primary industries. Candidates for Fellowships should be available to take up the awards no later than June 1982. Research Fellowships will have a tenure of one year only and are designed to encourage younger research workers to gain experience in an approved research institution other than where they are at present employed. They are not intended to provide opportunities to obtain higher degrees but may be used to obtain immediate post-doctoral research experience; other than in exceptional circumstances. Fellowships would only be tenable at an Australian institution. The research to be undertaken may be in any of the broad fields of economics and management, plant sciences or animal sciences. The Objectives and Conditions of Award are available from: The Secretary, Reserve Bank of Australia, Box 3947, G. P. O. Sydney, N.S.W., 2001, Australia.

THE BOARD OF MANAGEMENT OF THE URRBRAE MEMORIAL FUND is inviting nominations of persons who have made an outstanding contribution to Australian agriculture in the field of Socio-economics and Marketing. For the purpose of this Award, Socio-economics and Marketing refers to contributions to Australian agriculture in one or more of the following aspects: economics, sociology, political science, marketing, farm management, education, extension or administration. The Award, consists of a gold medal and one thousand dollars is awarded biennially. Personal nominations will not be accepted. Nominations should reach the Secretary of the Board by June 30th, 1981, from whom any further information may be obtained. The winner of the Award will be announced by the Board of Management on

August 31st, 1981 and the decision of the Board is final. Further information can be obtained from the Chairman, Urrbrae Agricultural High School Memorial Fund Inc., 505 Fullarton Road, Netherby, S.A., 5062.

DAVID SYME RESEARCH PRIZE - awarded for the most distinguished contribution to Biology, Chemistry, Geology or Physics during the preceding two years of the year of determination. Candidates for the prize must have spent five out of the last seven years in Australia and no professor of an Australian University is eligible. Application forms should be submitted by 1st March, 1982. In 1982 the prize will consist of an award of \$2000 and a bronze medallion. For further details contact D.P.O. Room G08, The Hut.

THE GRIMWADE PRIZE IN INDUSTRIAL CHEMISTRY - applications are invited from graduates of any British Commonwealth university, undergraduates of the University of Melbourne or any person who has spent not less than three terms of study or research in a laboratory of the University of Melbourne. Candidates for the prize should submit an original thesis embodying the results of an investigation pursued by them in Victoria within the past five years in connection with some branch of industrial chemistry. The value of the prize for 1982 is approx. \$1580. For application details contact D. P. O. Room G08, The Hut.

#### CONFERENCES, SEMINARS, SYMPOSIA.

DEPARTMENT OF PHYSICS, University of Wollongong - Thursday, April 30 - Dr. Robin Walsh, Australian Atomic Energy Commission, Lucas Heights, will speak on "Viscosity Effects in Fission of  $^{239}\text{Pu}$ ." 12.30p.m. Physics Lecture Theatre.

Friday May 29 - Professor Clifford Hooker, Department of Philosophy, University of Newcastle, will give a PUBLIC LECTURE on "Cosmos and Control: The Long Revolution in Science and Society." 8p.m. Physics Lecture Theatre.

AUSTRALIAN SOCIETY OF LEGAL PHILOSOPHY - will meet on Friday, 24th April at 5.15p.m. in the Staff Common Room, 13th Floor, University of Sydney Law School, 173 - 175 Phillip Street, Sydney. Theme, "Hart's 'The Concept of Law', Analytical Jurisprudence and Social Theory." Speaker, Dr. Martin Krygier (University of Sydney). Commentator, Professor Lauchlan Chipman (University of Wollongong).

DEPARTMENT OF BIOLOGY - 28th April - Seminar by Dr. P. Larkin, CSIRO, Division of Plant Industry, Canberra, on

Wollongong and Sydney newspapers and magazines are now available from the Union Shop.

Staff and students are also reminded of the Higher Education supplements in Wednesday's edition of The Australian and in The National Times.

"Soma Clonal Variation; a Novel Source of Variation for Plant Improvement." Room 144, Metallurgy Building. 12.30 p.m. Tuesday, 5th May - Mr. J. Harris, Department of Zoology, University of N.S.W., on "Dams and Native Fish". Time and place as above.

DEPARTMENT OF CHEMISTRY - 1st May - Dr. Peter Burton - Theoretical Modelling of Molecular Behaviour "The State of the Art". 11.30 a.m. Room 18.206 of the Department.

DEPARTMENT OF EUROPEAN LANGUAGES - Thursday, April 30th, 3.30 - 5.30 p.m. lecture by Professor Gino Rizo, Head of the Department of Italian at the University of Sydney, on thematic structure of Boccaccio's Decameron. Room 2106-7 at the Department in the Social Sciences Building.

CIRCOLO ITALIANO FILM - Thursday, April 30, Pentagon 1, 8 p.m. - "Padre Padrone". All welcome, admission free.

#### MISCELLANEOUS

THE TOMO LANGUAGE INSTITUTE is looking for a temporary English Language Instructor/Japan who is able to teach standard English in Japan from June to September, 1981. It is possible to extend the period of stay in Japan to one (1) year. Applications should be submitted as soon as possible. The successful applicant will work at the TOMO Language Institute in Shizuoka city, located about 160km west of Tokyo. To be eligible applicants must be a native speaker of English from Australia; single (female student preferred); thirty years of age or under at the time of application. Applicants must also have a tourist visa with working permission. No teaching experience and/or training is required. The salary offered is 150,000 Yen per month (approx. \$A580 at current rate of exchange) for a period of employment of four months, starting in the middle of June, 1981. The period is extendable by mutual consent. Transportation expenses to Japan of 200,000 Yen will be allowed by the employer. The teaching load will include thirty teaching hours, five or six days per week. A furnished apartment will be provided by the employer. Please send urgently your resume and/or curriculum vitae with photo by April 30th to The Manager, TOMO Language Institute, Jyohoku Office and Classroom, 169-2 Jyohoku Shizuoka Shi, Japan.

Campus News is published fortnightly by the Development and Planning Office, the University of Wollongong, Northfields Avenue, Wollongong, 2500, N.S.W.