Etched against Wollongong’s sunset, the statue to flight-pioneer Lawrence Hargrave. The statue was designed by Bert Flugelman as a project of The Friends of The University.
Bigger Report is a barometer of increased activity

THE SECOND EDITION of the Research Report (1989-90), produced by the Academic Services Branch within the University, was published this year once again to coincide with the postgraduate research students' Open Day. A major change from last year's issue is that research themes are grouped by program (in the 1988-89 edition they were grouped by faculty). Other research (that is to say, projects not included in programs) is dealt with in a related section. Research publications are listed under faculty and departmental headings. The wordage, as compared with that for publications in the earlier report, is increased by some 30 per cent. The Report gives an absorbing insight into the range and depth of research being undertaken in the University. And yet, as the Vice-Chancellor says in his introduction, because of restrictions imposed by space limitations, the amount of work which could be included had to be restricted.

Another point made by the Vice-Chancellor is that, as a result of the finalisation of the University's research management strategy, the 12 months to the end of June last saw a significant advance in research activity. Implemented in January this year, the strategy aims to exploit to the maximum extent the University's research capabilities by signalling strengths, facilitating interdisciplinary work, encouraging postgraduate training and generating strong external support.

This strategy has been developed in line with the University's commitment to fundamental research as well as to research related to industrial and commercial activities of the Illawarra and adjoining regions.

In accordance with the first stage, many academic staff carrying out research in broadly related areas have formed teams and programs to maximise use of available resources. It was in this way that the over-30 programs described in the Research Report were established.

Research best done individually is being carried out by other staff and some by smaller groups. The material covered in the Research Report is extremely wide ranging.

Topics embrace virtually every level of imaginable activity from water engineering and geomechanics (which looks at landslides, high-risk assessment of solid slopes, water quantity and quality of modelling catchments, and reinforced earth in river-bank protection) to the pursuit of intelligence in materials.

To understand this extraordinary concept you have to picture in your mind's eye a plastic-like material that can monitor the chemical environment in which you live and work: a material which not only monitors its environment but which, if required, will generate an appropriate electrical signal which in turn triggers a chemical reaction to regulate the chemical environment. This responsive material initiates the chemical reaction to ensure that chemical processes, so important in our everyday lives, remain in balance.

The intelligent-materials concept has already been proved with some quite simple cases. For example, with the onset of corrosion on a metal substrate has been used to initiate the release of a corrosion inhibitor.

But the Report 1989-90 is not concerned exclusively with engineering exotica.

In an article describing the effects of exercise, stress and fitness on the human body, we find that much of the University's research is directed to increase the understanding of behavioural and biological responses to the exercise-related stress commonly experienced in work, sport and recreation. For a heat-related stress exercise a controlled-climate chamber can provide a temperature range between -10 degC and 50 degC and humidity between 30 per cent and 80 per cent. 'Subjects' within these extremes pump their hearts out on treadmills and other instruments of torture, and transmit information through a wall panel into a separate chamber housing data-collecting instruments.

At the research students' Open Day are, from left, Mr Ray Davies (National Australia Bank), the Vice-Chancellor, Professor Ken McKinnon (holding the Research Report), and Mr Richard Groom, Associated Pulp and Paper Mill
PhD students' research on display

Postgraduate students undertaking research held their second Open Day on September 29 for the public and the campus community. Some 100 students presented their research projects in the form of displays or oral presentations. A significant and dramatic upsurge in research activity has highlighted the University’s growth in recent years. The number of Doctor of Philosophy candidates enrolled and the identifiable research expenditure have more than doubled in five years. The day was ‘opened’ by the Vice-Chancellor and later representatives from the National Australia Bank and the Associated Pulp and Paper Mill presented cheques to establish postgraduate research scholarships.

The Postgraduate Research Scholarship in Commerce has been established with funds donated by the National Australia Bank. The scholarship will provide the opportunity to undertake a full-time PhD degree at the University and will offer an attractive stipend of $15,000. The scholarship has been awarded to Sudhin Chandra Lodh to undertake the course of Doctor of Philosophy in the Department of Accountancy and Legal Studies. The cheque was presented by Mr Ray Davies. Mr Richard Groom from the Associated Pulp and Paper Mill presented a cheque for $7,000 to establish an honours scholarship in Chemistry to determine and check the level of heavy metals in the waste sludge from paper mills so it can be used as an organic booster for soil.

Prizes were awarded to Peter Wypych for the best PhD thesis and to Kaye Lowe for the best Masters thesis; to Andrew Warner for the best poster and to Helen Palucci for the second best poster. The best talks were given by Budi Notowidogojo, Sue Curtis, Brenda Parkes, David Rowland and Robert Barr.

Laurels again for campus grounds staff

The University has once again taken the laurels in the Public Institution category of Wollongong’s Garden competition. The University also won a special award for the landscape associated with Kooloobong and was given a special commendation for its role in the physical development in the region.
FACULTY OF LAW

New course of study, with first intake of students in 1991, a logical extension of University's growing involvement in field of legal studies

AT ITS MEETING on Friday October 13, the University Council decided to establish a comprehensive and professionally orientated Faculty of Law.

The development of the faculty will be guided by a high-level Law Advisory Committee of supreme court judges, senior law professors from existing law schools and senior members of the profession.

After the offerings of other law schools had been scrutinised, gaps in areas of academic law in Australia, relevance to the local region and the developing profile of the University, The University of Wollongong has decided to specialise, for postgraduate study and research, in Natural Resources Law, Industrial Law and the Policy and Practice of Court Administration.

A distinctive feature of The University of Wollongong's Faculty of Law will be its collaboration and integration with existing faculties, and the opportunities for students to enrol in combined courses - Arts/Law, Commerce/Law and Science/Law.

Although the first intake of students will be in 1991, high-quality students who begin their studies next year will, on the successful completion of their first year of study, be given the opportunity to transfer to a joint program.

The University will now proceed to appoint a Dean and Senior Staff, and a Senior Librarian to oversee the establishment of a Law Library.

The University of Wollongong first introduced law subjects in 1976 and, in the light of increasing demand, established, in 1988, a Department of Legal Studies in the Faculty of Commerce and offered subjects to Commerce and Art students.

Wollongong is the first non-capital city in Australia to have a fully-fledged 'law school', a Faculty of Law with a professional orientation.

The new Law Faculty will offer a comprehensive program of professional subjects, designed to give students exemption from the examination requirements set by the Barristers and Solicitors Admission Board, the body which controls admission to practice as a barrister or solicitor in this State on behalf of the NSW Supreme Court.

No university has the power to qualify students directly to practice in NSW. That power resides ultimately in the Supreme court itself, which must be satisfied that the subjects studied were sufficiently broad in coverage, and demanding in their task and assessment requirements, to warrant granting exemption.

It is planned to make 80 places available for students who wish to begin an LLB in the Autumn Session in 1991. It is unlikely that any student with an HSC score of less than 400 will be admitted.

Students straight from school will also be required to enrol in another degree program - Arts, Science, Commerce, Engineering or Information Technology and Communications - concurrently. Thus, as well as scoring at least 400 in the HSC, they will need to meet any specific pre-requisites for the other degree.

Students currently in Year 11 and below in Illawarra high schools should be under no illusions about the direction in which admission standards are moving at Wollongong University. Its growing national and international reputation is already pushing up entry requirements more rapidly than anybody predicted as recently as two or three years ago.

The arrival of Law will automatically drive up entry standards for all degrees which may be taken jointly with Law, even for students who do not apply to enter Law.

Minimum entry scores of 400 for Commerce, Information Technology and Human Movement are already conceivable by 1992, even for non-law students, with entry standards for other degrees quickly closing the gap.

The benefits of a Law School for the Illawarra region go far beyond the opportunities they present for south coast students to obtain qualifications in law without moving to Sydney, Canberra or Melbourne.

With its professional Law Library and sophisticated computer access to legal data bases, it will also provide a service of immense value to the local profession.

Complex legal matters currently referred to Sydney for advice will be able to deal with locally, thanks to the additional talent and physical resources to be concentrated in the University of Wollongong's Law School.

The development of a strong legal culture in the region will make Wollongong a far more attractive venue for major court work. This in turn will increase further the opportunities for law graduates to work professionally in the Illawarra.

There is a strong belief within Wollongong University that the future prosperity of the region requires the attraction and retention of 'knowledge-based' industries. Strengthening the expertise in law available locally is an important part of that strategy. It will also reduce the cost of doing business in the region, an important factor in persuading major firms to establish their head offices in the Illawarra.

From the University's point of view, the birth of the Faculty of Law is simply the logical extension of its growing involvement in the field of Legal Studies, which began soon after it gained autonomy from the University of New South Wales in 1975.

It also rounds off its regional commitment to provide a comprehensive range of professional programs. Since its foundation, the University has provided professional training in Engineering and Education. Then came Accountancy, Computing, Creative Arts and Information Sciences.

Earlier this year the University signed an historic agreement with the Illawarra Area Health Service, under which it will provide professional undergraduate and postgraduate training in a wide range of health and medical fields.

The arrival of the Faculty of Law completes the process of professional spread, giving the people of the Illawarra a comprehensive teaching and research university.

Certain passages of this article (written by Pro Vice-Chancellor Professor Lauchlan Chipman) appeared in a feature article on the Faculty of Law in the Illawarra Mercury.
FURTHER INDICATION of University-BHP collaboration is that the Department of Human Movement and Sports Science is conducting a $36,000 evaluation research pilot study into a workers rehabilitation program.

The annual cost of compensation for work-related injuries to the State of New South Wales was calculated in June 1988 at $816m. Indirect costs to the community may be as much as four times that amount. Many injuries are preventable and Industrial Safety Officers are involved in modifying work practices to reduce the incidence of injury, but it is believed that such costs can be further reduced by means of comprehensive and effective rehabilitation programs. Recent changes to the Workers' Compensation Act have resulted in a requirement for employers to provide such programs for injured employees. There is a wide range of rehabilitation program models which satisfy this requirement.

The need for evaluation of the rehabilitation model introduced by BHP resulted in an invitation to an experienced evaluation researcher and postgraduate student, Mrs Sue Curtis (previously of the Centre for Literacy), to suggest appropriate methodology. Her proposal, submitted through Human Movement and Sports Science, was accepted, and an HMSS research team located at BHP started work on August 14 on the $36,000 evaluation research pilot study.

A number of staff with expertise in exercise therapy, biomechanics, functional anatomy, exercise physiology and corporate fitness will contribute to it as the research develops. The application to local industry of principles and practices related to elite sports performance should furnish BHP with strategies to enable the firm not only to reduce work-related injuries but to get injured workers back to work as soon as possible.

The project has been a positive demonstration to students in 11 targeted schools that higher education is an option for them. The project targeted four disadvantaged groups; girls in non-traditional fields, Aboriginal students, students from non-English-speaking backgrounds and students from low socio-economic backgrounds. An evaluation has been done of the effectiveness of the role-modelling exercise and this has provided a model for the development of the project in 1990 into Years 10 and 12.

General impressions from the school visits are positive. The role models performed well, with good feedback after sessions from teachers and students in the schools.

Interviews with careers teachers produced a list of factors considered as encouraging/discouraging for students in their choice of senior school or tertiary study. The impact of The University of Wollongong student role model visits has been positive.

The research project was co-ordinated by Dr Noeline Kyle and had as team members Ms Gay Tapp, Ms Jan James, Dr Ted Booth, Mr Stephen Darcy and Professor Ron King. Ms Gay Tapp has been a key person in the implementation of the project in 1989 and Ms Jan James has played a pivotal role in co-ordinating and briefing the students who have been employed to go out into the schools. However, this has been a collaborative team effort with researchers, role model students and the schools working together to produce more options and understandings for Illawarra youth about their tertiary schooling.
Noted educator honoured

At the October Confering of degrees ceremony (at which some 300 students graduated) an Honorary Doctorate of Letters was awarded to Brian Gillett. One of the region’s most widely experienced teachers, education administrators and architects of education policy, Dr Gillett was elected as the University’s Deputy Chancellor in 1988. He is seen above with his wife, Ann.

Congratulations at 50 not out

to Gwen and Ed Deighton who celebrated their Golden Wedding Anniversary on October 12. Gwen and Ed lead the group of senior citizen volunteers who prepare the Gazette for mailing four times a year, and Campus News on a weekly basis from March to December. We wish Gwen and Ed many more years of health and happiness.

... and a Fellowship for Professor Alan Cook

PROFESSOR ALAN COOK, Head of the Department of Geology, has been made a Fellow of the Australian Academy of Technological Sciences and Engineering.

Professor Cook is the second staff member of this University to be awarded this fellowship. The other is Professor Howard Worner. Professor Cook is also the first geologist for several years to have been given this honour.

The award was for his pioneering work in the source of natural gas and petroleum in sedimentary rock.

Eveleigh says: ‘The conundrum is as clear today as the contrast. We can no longer live without industry. As the American critic Clement Greenberg remarked, ‘Industrialism and industrialisation are here to stay. Their benefits are too well recognised by now for humanity to be turned from the pursuit of them by anything short of cosmic violence.’ But we now realise that we cannot survive at all without a fertile earth and unpolluted air and water.’

The problem, Eveleigh says, is to balance the equation.

A section from one of John Eveleigh’s industrial works entitled ‘Port Kembla Coal Wharf’

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HEROIC MATERIALISM

UNDER THE general heading of Heroic Materialism, John Eveleigh in his exhibition in the University’s Long Gallery, grouped his studies of Australian mining, manufacturing, transport and port facilities. Industrial subjects of the Illawarra included the Australian Maritime Board, BHP’s Port Kembla coal berth and steelworks, Transfields’ grain silo under construction, an earthworks excavation by Leightons in preparation for construction of Sydney Harbour Tunnel modules, module construction by Transfields, construction by Transfields of the 36-foot-high, winged figure by Bert Flugelman, and, extensively covered, international shipping servicing the coal and steel industries.

In contrast, Eveleigh’s second group of works in the exhibition depicted the Natural Order - the highlands, lowlands and eastern seaboard of New South Wales, from Pidgeon House Mountain in the south to Nambucca Heads in the north. Many of these scenes feature water, which the artist sees as the world’s prime spiritual element, all too often exploited for man’s comfort and convenience without regard to their own essential purity and beauty: ‘lakes, streams, rivers, seas and oceans, life-giving factors, used as open sewers for industrial effluents’.

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More bytes on campus

STAFF AND STUDENTS on campus are familiar with the name Apple Consortium. But to students who graduated over, say, five years ago, the name will mean little - apart, perhaps, from the fact that in their day it was a pathway to a Mac at a discounted price.

But today occupying a section on the first floor of the Michael Birt Library, the Consortium has come a long way in the six years since its inception. Today it is an integral part of the University, the place to which staff and students home in whenever trouble strikes, or whenever a piece of software wants an update.

This article appears as a minor salute to the consortium staff, without whose vast expertise in computer magic life for at uni could be far more turbulent.

It is not generally known that the Consortium is a group of nine Australian universities. It was formed when Apple’s offer to co-operate in a joint venture involving the development of software and courseware by university staff, and special discounts for Apple Macintosh computers, subject to a commitment to buy them in substantial numbers, was taken up. The venture followed the pattern of a similar arrangement in the United States of American and other countries. The University of Wollongong is one of the 60 members of the Pacific Consortium. There are 32 members of the US Consortium and 120 members of the European Consortium.

The Consortium at Wollongong has evolved over its six years of operation into an educational computer shop. It employs five full-time staff and four part-time student representatives. All staff members of the Consortium are employees of the university.

The Consortium provides the university with Macintosh hardware and software sales, Macintosh Plus, SE, II, Iici and Portable, plus all accessories. During the six years of operations over 1400 Macintosh systems have been sold, including more than 700 to the University; all repairs are carried out on campus by two qualified technicians; the Macintosh Staff Training Lab began in March 1989 and by the end of October the attendance figure at sessions stood at 494 - 247 individual staff members (51 academic staff, 95 word processing/secretarial staff and 101 other general staff members); the Consortium is a dealer for Apple, Microsoft, Imagineering, Kodak and Firmware Design, to name but a few. But the Consortium provides other services. Most secretarial and word processing Macs have been, and continue to be, installed by the Consortium, a straightforward operation involving not much more than plugging leads into the correct sockets. Hard disc machines require a little more work.

As there are so many Mac users on campus, it is not surprising that, from time to time, trouble will strike. Most problems can be sorted out over the telephone but, if they can’t, Consortium staff will drop round and sort out the trouble – and usually quickly.

Another job the Consortium undertakes is the conversion of foreign files to the Macintosh system. (Many of the staff members who are changing to Macintosh environment have files that were created on other systems.)

From time to time new projects which involve record keeping, word processing and so on, are started by members of staff who need help in establishing the data base which best suits their needs. The Consortium provides such assistance. Consortium people are available to help in the selection of the most appropriate hardware and software needed by staff and students for their research or other types of project.

With the advent of the campus network, the Consortium has taken an active role by evaluating Macintosh network solutions and providing advice on matters such as Macintosh integration to the network, electronic mail, dial-up services and network hardware solutions.

Wollongong High wins Geography Prize

WINNERS of the Geography Awareness Week competition were both pupils from Wollongong High School. Jane Wasley (aged 16) and Rebecca Gilbert (aged 15) both completed successfully a geographical crossword, run in The Advertiser.

Jane won the Family Pictorial Atlas of Australia, a prize sponsored by the University Co-operative Bookshop. Rebecca won a panoramic wall map of Australia, sponsored by Map Graphics of Leichardt.

The presentation at Wollongong High School on September 21. Professor Murray Wilson, Rebecca Gilbert, Jane Wasley and Mr Andrew Morgan (teacher of Geography at Wollongong High School) and Dr Hilary Winchester, of the Department of Geography
Life Among the Scientists
Max Charlesworth and Lyndsay Farrall (Deakin University), Terry Stokes (The University of Wollongong) and David Turnbull (Deakin University)

The Walter and Eliza Hall Institute for Medical Research in Melbourne was the setting for the launching of a book about the people who have made the Institute world-famous: one of the most engrossing books on science, scientific method, goal setting and personal interactions that I have ever read, according to the launcher, Mr Barry Jones, Federal Minister for Science, Customs and Small Business.

Subtitled An Anthropological study of an Australian scientific community, the book, Mr Jones said, "...is a rare example of investigators studying fellow scientists, putting research in a social context. Social context was, he said, '...important to the first director of the Hall Institute, Sir Macfarlane Burnet, and is important also to the present director, Sir Gustav Nossal'.

But the two men were vastly different.

Burnet, a classic introvert, reflected the pre-World War II scientific ethos of Einstein, Bohr and Haldane, which put science in an epistemological context; he was also a bit of a pessimist who had real forebodings about the misuse of science.

Nossal, a classic extrovert, is an optimist, an entrepreneur and communicator of genius, quite apart from his scientific attainments. It is much to Burnet's credit that he appointed Nossal as his successor considering that they were so different in style, temperament and operating method.

Burnet was dedicated to 'small science', whereas the solitary researcher probed the unknown, while Nossal is comfortable with 'big' (or expensive, at least) science, where teams work on large projects such as the malaria vaccine.

The conclusions reached by the authors, Mr Jones said, are widely discussed:

i) that scientists are human
ii) that the role of 'power' in scientific progress is inadequately recognised
iii) that there is no one method of scientific investigation and
iv) that there is a wide disparity between real and perceived science.

The book highlighted three areas which, he said, need to be examined:

i) the inherent contradiction between the ideal of free availability of scientific knowledge and the spirit of competitive individualism
ii) the position of women in science and
iii) the relative lack of interest shown by immunologists at the Institute in the ethical and social implications of what they are doing.

Plants in Australian Archaeology
Edited by Wendy Beck, Anne Clarke and Lesley Head

Research on plant remains from Australian archaeological sites has increased dramatically in the past decade or so but is not as well developed as analysis of stone tools or bones. Yet many of the questions being asked by archaeologists about prehistoric Aboriginal lifestyles cannot be satisfactorily answered without consideration of the role of plants.

For example, to what extent were plant foods a staple part of Aboriginal diets? Is the gender division of labour described in the ethnographic record, whereby women were primarily responsible for gathering plants and men for hunting game, visible archaeologically? Did Aborigines utilise resources more intensively in the past three to four thousand years, and was this associated with increases in population?

This book was prompted by the editors' experiences in archaeobotanical research and their roles in developing related courses at the tertiary level. The most recent text on methodology in Australian archaeology did not include any material on the analysis of plant remains, while the classic northern-hemisphere texts are not necessarily suitable either for Australian conditions or for hunter-gatherer archaeology.

The book was designed to provide an accessible handbook describing how to collect, analyse and interpret plant remains relating to hunter-gatherer archaeological sites. Each contributor was asked to include a case study that demonstrated the application of the technique in a research context. The case studies include examples from Kakadu National Park, Papua New Guinea, the Queensland coast and Western Victoria. The editors' introduction provides a review of plant remains in hunter-gatherer archaeology.

Plants in Australian Archaeology is the first volume of Tempus, a new monograph series published by the Anthropology Museum, University of Queensland. It is available for $20 plus $4 postage from Tempus, Anthropology Museum, University of Queensland, St Lucia, Queensland 4067.

Wendy Beck lectures in Archaeology at the University of New England. Anne Clark lectures in Cultural Heritage Management at Charles Sturt University, Murray Campus. Lesley Head lectures in Geography at the University of Wollongong.

Communication moves towards 2000

Uninet will in the future become an acronym to conjure with. And the future came nearer on October 23, when the New South Wales Minister for Education and Youth Affairs, Dr Terry Metherell, launched Uninet—a telecommunications network enabling the University of Sydney, the University of Technology, Sydney, and the University of Wollongong to hold video conferences and receive high-speed data.

Hosted by Jane Singleton, the event involved the participation of five vice-chancellors.

The optical-fibre network facilitates multisite, instructional video-conferencing between any of or all the campuses. The University of Wollongong is connected to Uninet through a digital data communication network.

This is the first phase of the New South Wales link-up, which will be extended to take in the University of New South Wales and Macquarie University by the end of this year. Uninet can be linked with interstate and overseas universities.

Developed by Telecom in response to a detailed proposal put forward by Professor Trevor Cole, of the University of Sydney's Department of Electrical Engineering, Uninet is designed to promote possibilities for co-operative research, development and demonstration of teaching by interactive video.

In a Memorandum of Understanding between Telecom and the universities, Telecom has agreed to 'offset costs associated with the installation of the system against a commitment of the universities to undertake relevant research and development projects.'

Telecom anticipates that Uninet will become a testbed for such products and services as broadband switches, QPSX and broadband ISDN.
During the 1930s, the usual expectation for pupils in Wollongong High School’s Latin class was that they would proceed to University or Teachers’ College. This expectation was thwarted for Winifred, a senior prefect at the school, when her parents decided that they didn’t want their daughter to study in Sydney. It was not until The University of Wollongong issued an invitation to Winifred in 1981 to apply for admission as a mature-age student that the earlier hope of formal tertiary training was realised.

In the intervening years life for Winifred was busy. A Business College qualification as a stenographer-clerk led to employment for eight years in the office of Australian Iron and Steel Limited. With the advent of the second world war, work at Australian Iron and Steel was classified as a reserved occupation. Winifred recalls taking part in air-raid drill at the Steelworks, and at hospitals in Wollongong, when she was on volunteer duty as a member of the Voluntary Aid Detachment. Another voluntary occupation was as a foundation member of the Women’s Emergency Signalling Corps, which gave morse-code training to RAAF recruits while they awaited call-up. As a qualified St John Ambulance First Aid instructor she lectured on various occasions to groups, including employees from the Steelworks.

After marriage to Alan Ward, Winifred taught privately for 12 years as a Speech Training Teacher. This was followed by several years as a clerk-stenographer at Wollongong District Hospital, until she entered the business world eventually as a company director in partnership with her husband and brother. Then, for 20 years, until her husband’s death in 1979, she was office manager for their industrial plumbing and hydraulics design company.

Community involvement included positions as a District Commissioner of the Girl Guides’ Association, President of the Business and Professional Women’s Club of Wollongong, President of Soroptimist International of Wollongong, Secretary of Wollongong High School P & C Association, a Lifeline counsellor, foundation and current secretary of the Farmborough Grove Village Board of Management, current president of the Wollongong Women’s Probus Club and newly appointed to the Council of the United Theological College.

The two children of her marriage are Dr Kevin Ward, a Senior Principal Research...

Robert Davey BSc (Tech) MSc PhD

Robert is what one might call a perpetual student. He began his studies in the University's infant years, back in 1963. Robert was a cadet with BHP studying mechanical engineering. He has remained a part-time student almost continually since that day.

In 1970 Robert received his first degree, with his eight-months-old son, Peter, among those present. This year a rather older Peter was present to congratulate his father on graduating with a PhD.

This was the culmination of 27 years of study.

His thesis examined the design of gears. Robert proudly but modestly divulged that approximately 85 per cent of the current Australian Standard for gear design is the result of his work. A design engineer, Robert has remained with BHP, which he fondly refers to as the 'village steelworks'. He says BHP has been wonderful in supporting him throughout his various courses, and paying fees where necessary. Too often the steelworks attract public criticism, while recognition is not forthcoming for the support and encouragement that are given to employees and many community projects.

The obvious question. Is Robert a student no longer? Not! After 27 years of mechanical engineering he says he has decided to take on something 'more serious'. Robert has begun a certificate course with Moore Theological College.

1989

Yvonne de Vries, BA

In the October 1989 graduation ceremonies at Wollongong University, Yvonne was the only graduand of Aboriginal descent.

Yvonne majored in sociology and is currently employed as a tutor at the Aboriginal Education Unit within the university. She is a little nervous, although you would never know, regarding all the media exposure. Yvonne featured in the Illawarra Mercury, several promotional videos and now this Gazette.

There were 25 Aboriginal students enrolled at the university this year. Steps are being taken drastically to increase that number. A promotional video featuring all staff and students at the unit is being produced by David Blackall. Yvonne has been active in assisting Steven Darcy, the student adviser, in a statewide recruitment program.

Yvonne has found her time at the University to be a good experience, both as a student and now as a staff member.
1988

Deirdre Russell-Bowie (BEd, AssocDipMus, GradDipArts, Dalcroze Certificate Level 2, MEd(Hons) Wollongong)

For the past ten years, Deirdre has been lecturing in Music Education within the Bachelor of Education degree course at the Macarthur Institute of Higher Education (soon to become the University of Western Sydney-Macarthur). Before her appointment there, she taught in primary schools in Tasmania, then lectured in academic and curriculum music at the Tasmanian College of Advanced Education.

Over the past few years she has been involved in extensive extra-curricular activities relating to music-making with children. She has also been involved with inservicing teachers in music education and in implementing the NSW (K-6) music syllabus in local schools around the South-west region of Sydney. After completing her Masters in Education (Honours) degree at Wollongong University last year, Deirdre is now undertaking doctoral studies at the University in the area of Music Education Policy in the Primary School.

In 1981 Deirdre wrote her first book *Music is...*, a primary teachers' resource book for teaching music. Two accompanying cassettes soon followed. On completion of her MEd (Hons) degree, Deirdre wrote three more music resource books for teachers and parents. They are *Music is Everywhere* (a thematic approach to teaching music in the Primary School); *Music is Alive* (practical suggestions for implementing the NSW (K-6) Music Syllabus in the classroom); and *Music Is For Young Children Tool 0-5 years* (a resource book for parents and caregivers to help them introduce music into the lives of the children in their care). Two more music resource books, a video and a cassette, will be published later this year.

Anyone seeking more information on these publications should contact Deirdre Russell-Bowie, c/- Macarthur Institute of Higher Education, PO Box 555, Campbelltown, NSW 2560.


Dr Keith T. Johns (PhD, MLitt, BA(Hons), GradDipEd, FLCM, FTCL, LTCL)

Dr Keith Johns, who has been described by leading European critics as a 'magician' because of his extraordinary affinity with the virtuoso piano music of the 19th century, has returned once again to his home town after a triumphant world tour.

Active as a pianist in West Germany, Austria, Switzerland, Sweden, Holland, Czechoslovakia, the USA, England and New Zealand, Dr Johns is also highly respected in musicological circles. His writings on orchestral and piano literature have resulted in important European posts such as a year as guest-scholar in the Music Department of Heidelberg University and he has just returned from a year as Guest-Professor in the Music Department of Vienna University.

Dr Johns will take up his post on the piano staff of Wollongong Conservatorium in 1990, while preparing for further concert invitations including a celebrity appearance with the Slovakian Philharmonic Orchestra as part of Bratislava's anniversary celebrations in 1991, and further European and New Zealand engagements.

Keith was awarded the first doctorate from the School of Creative Arts of the University of Wollongong in 1987. The University can well be proud to have Keith among its graduates.

In addition to the published books listed below, Keith has more than a dozen journal articles to his name.

Dr Winifred Ward proves that it’s never too late
from page 9

Trevor Brew

Haste ye back!

Trevor Brew is the Deputy President of the Graduate Group of ‘The Friends’. He is also the Manager of Student Services at the University. Before amalgamation he was the Secretary of the Wollongong Institute of Education.

Trevor regards the Graduate Group as an important link between the University and its graduates. For many the University has been a launching pad into new careers. For others it has enabled a change in career direction. For all graduates it has played a significant role in their development.

The Graduate Group is anxious to keep graduates in touch with each other and with the development of the University. The University of Wollongong Act, 1972, provides for convocation to elect members to the University Council from among its numbers.

The University is proud of its beautiful campus and invites graduates to return at any time and enjoy the surroundings which should always be considered as belonging to all the University community, both past and present.

From time to time the Graduate Group will be providing specific occasions to welcome back the past students but graduates are welcome to stroll around campus at any time with family and friends.

Dr Winifred Ward proves that it's never too late

Officer with CSIRO, and Beth Facer, who holds an MA(Hons) degree and is a staff member of the Early Education Clinic (North Sydney) for developmentally retarded children. Beth’s husband, Dr Richard Facer, was for 15 years a staff member of the Geology Department at The University of Wollongong, and Kevin’s wife is an English/History mistress at Blue Mountains Grammar school. Of the five grandchildren, one is studying second year Science/Law at Sydney University, two are first-year medical students also at Sydney University, one boy is in Year 11 at Sydney Grammar and the youngest grandchild will start Year 7 next year at Blue Mountains Grammar.

Winifred readily acknowledges a deep sense of gratitude for the opportunity given by the University to enrol in formal tertiary studies, which have opened many doors. A keen interest in various disciplines, including English Literature and Philosophy, made selection of a study major difficult. The decision to major in Religion and Society within the Department of History and Politics was influenced by a life-long active association with Methodism, and the hope that wider study would provide a more informed background to support a long-held commitment that it is desirable that one should analyse values held and conduct one’s individual search for ‘truth’. That such a commitment has sometimes attracted the label of heretic doesn’t worry Winifred, who is more inclined to accept the label as a compliment. Her doctoral dissertation is a study of liberal theological expression, classified as ‘secularised religion’, which in various aspects has been denounced throughout history as heretical.

As a member of the sub-committee planning the Ethel Hayton Visiting Fellowship, Winifred is deeply committed to the realisation of this project. She firmly believes it has the exciting potential of stimulating interest in, and analysis of, values which transcend merely material concerns. It is a proposal, she readily admits, which is compatible with her personal ‘hobby horse’. She appeals nevertheless for support to be given to the Fellowship project from all sectors of the University.

Into what future paths will the eight years of University study lead? Currently, it has provided the background to conduct a book-reading and discussion on the subject of ‘exploring beliefs’. And also, plans are being developed to publish a book based on the doctoral dissertation.

Winifred has no hesitation in stating that whatever eventuates will to a large extent be due to the offer made by The University of Wollongong to accept her as a mature-age student, and subsequently to the encouragement given by her supervisor, Dr Piggin, to proceed to the PhD degree.

To all concerned she offers thanks from a very grateful student.

RESPONSE CARD

Tell us where you are, what you’re doing... and please send a picture – black and white if possible and with good contrast.

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Home phone ................................................ Work phone ......
Year(s) of Graduation ...........................................
Degree(s) held ..........................................................
Notes and news............................................................

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Bev Ring,
Friends of The University of Wollongong
PO Box 1144, Wollongong, NSW 2500.

Signature .................................................... Date ..............