THE GAZETTE

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EDWARDS HALL

The University of Newcastle was established as an autonomous institution in 1965. The triennia since have brought considerable progress with buildings and students and staff numbers, but one of the most significant developments was delayed until this year. Work on the first stage of this project, a Hall providing students and staff members of the University with living accommodation on the site, was partially concluded on 4th June, 1972.

Stage 1 of the Hall consists of three buildings – an amenities block and two residential buildings. A residential building with 111 accommodation places opened on 4th June and the second residential building, with 72 places, will be opened after the August vacation.

At first, applications for places in the Hall were received at a slow rate, because many out of town students had found accommodation at the start of the academic year. Nonetheless, the Hall was 90% full when the Gazette went to press.

The Hall is available also to graduates and members of the public in University vacations when bedrooms and eating facilities can be hired for every kind of purpose – from conferences to overnight accommodation for tourists.

The first Warden of the University's first Hall of Residence is Dr. Michael Blackmore, who, at 28, is probably the youngest Hall Principal in Australia. A quietly-spoken man, Dr. Blackmore originally came from Queen's University, Belfast, Northern Ireland. He immigrated to Australia in 1966 and was on the academic staff at La Trobe University when he took on part-time duties at that University's residential College, Menzies. He holds a Ph.D. in Inorganic Chemistry and, additionally, is attached to the teaching staff of the Department of Chemistry. Dr. Blackmore lives at Edwards Hall with his wife and considers that he can use his residency and his age to the Hall's advantage.

He says: "A hall principal must be available to speak to the residents at all reasonable times. By living in, I have to face the same problems as the students. Youth is an advantage since it was not many years ago that I was a University student, and I am still a long way from wanting to withdraw and retire from certain University activities."

Asked what quality he regarded as singularly most important for a Hall of Residence, he said: "Co-operation. Every member of the Hall is required to behave in such a way that no offence, inconvenience or disturbance is caused to any other member of the Hall, or to any person employed directly or indirectly by the Hall. Noise should be minimised in a community consisting of people who are often studying."

Externally the Hall is governed by an Interim Board of Trustees, appointed by the University Council and including two students. As regards internal government, the residents voted for the drafting of a constitution for an association to "exercise, administer and control activities of common concern to the members."

Everyone of the applicants for residence is personally interviewed by the Warden. "This is important as a means of removing any suggestion that the Hall is anonymously controlled, and it also lays a path for personal representations by residents," Dr. Blackmore said.

How much does it cost the students to live in Edwards Hall? The weekly residential fee during term is $24 and for this amount the undergraduate gets a serviced single bed/study room, membership of a community in which there is a fairly constant cross-fire of academic dialogue and admission to special tutorials at which assistance is given with University courses by four residential subwardens.

In addition, the fee permits the resident to have 16 meals per week in the communal dining hall. Dinner and breakfast are provided every day and lunch on Saturdays and Sundays. The menu gives one the impression that only high-class restaurants in Newcastle could do better.

The Hall has already been used as a place of accommodation for delegates to conferences and some officers of the University have been guests for dinner. As a result, it has been shown to be a collection of attractive brick buildings nicely set near the University's very green Sports Fields.

Architecturally speaking, the most impressive building is the Amenities Building. The dining hall inside this building holds about 450 people. On entering the dining hall one is struck by the polished parquetry floor and the ceiling, which consists of pieces of wood arranged in a scalloped pattern. Windows run from ceiling to floor and a carpeted stage is overlooked by a large University shield. The serving of meals in the cafeteria style tends to become tedious, so twice a week meals are brought to the tables by waitresses.

The hallways of the two residential blocks are carpeted and heated. The original plans called

Part of one of the two residential blocks of Edwards Hall (left) and the Amenities building.

for the provision of three common Rooms – one on every floor of the bedroom building – and a recreational area in the Amenities Building, but inflation forced the University to utilise two Common Rooms for TV-watching and the playing of table tennis and billiards respectively and delete the recreational area. One Common Room has been retained on the first floor adjacent to the tutorial room and a combined laundry and tea room has been provided on every half floor.

The bed/study rooms measure 11' by 10' and have vinyl floors, exposed brick walls and vermiculate ceilings. Each room is equipped with book shelves, a 10-foot long study desk, a built-in divan/bed, with drawers underneath, and a suitcase locker. The built-in cupboards in every bedroom have mirrors attached and storage areas on top that can be kept locked while the owner is away. The furniture consists of a desk chair and lounge chair. The colours of curtains, bedspreads, desk chairs and lounge chairs have been varied to make the interiors more attractive.

The first Hall of Residence at the University was named Edwards Hall in recognition of **Dr. G.A. Edwards'** part in the development of university.

Dr. Edwards has been Deputy Chancellor since 1966. He holds the degrees of Bachelor of Arts and Bachelor of Science of St. John's College in the University of Oxford and is affiliated with the Royal Institute of Chemical Engineers and the Royal Institute of Chemistry.

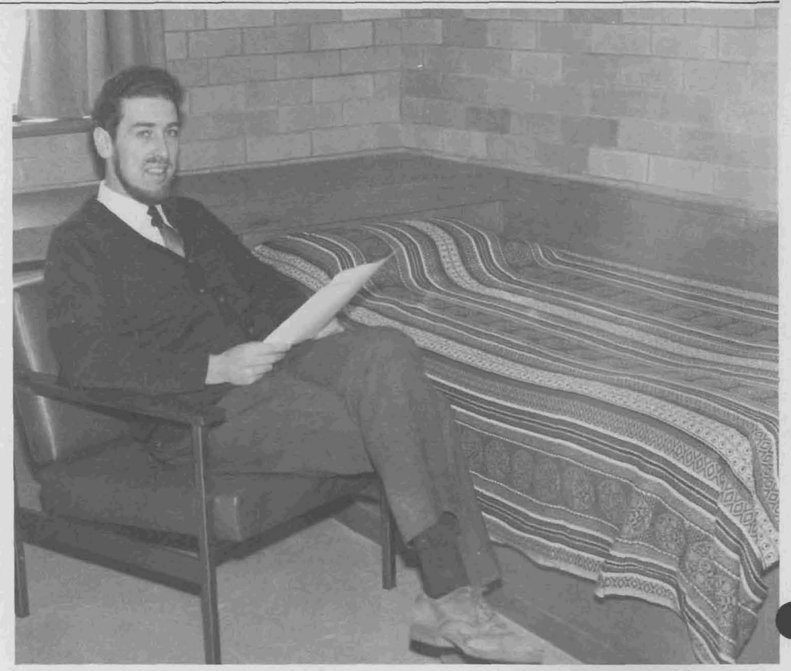
He was posted to Australia as Managing Director of Courtaulds (Aust.) Ltd.'s plant at Tomago.

The Vice-Chancellor (Professor Auchmuty) said the service given by Dr. Edwards to assist the university to develop as a new and autonomous teaching and research institution has been long and noteworthy.

Originally a member of the Newcastle University College Advisory Committee, he was appointed by the University of New South Wales to our first Council, and contributed much to its work in preparing the way for independence. He succeeded the late Mr. Lyon McLarty as Chairman of the Building Committee, and then, when independence came, he was elected the first Chairman of the newly independent University Council. In 1966 he received the Honorary Degree of Doctor of Science.

The Federal Government's policy is that residential halls at Universities must be financially self-supporting, a political fact of life that has created the need for finance apart from residential fees.

Dr. Blackmore says: "If the University is to be in a position to reduce the residential fees and buy extra facilities for the Hall then we must derive income from such external sources as conferences, wedding receptions and the tourist trade – in fact any legitimate external source. Therefore, we hope that the Hall will be busier in vacations than during term."



The warden of Edwards Hall (Dr. Blackmore) pictured in a typical bed-study room at the college.

Stage 11 of the project may incorporate a further two buildings with more than 220 study bedrooms. Such a scheme would compensate for the bedrooms deleted from Stage 1 because of rising buildings costs and comply with the Australian University Commission's requirement that student accommodation projects at universities consist of units of 400 bedrooms each. The University of Newcastle has made a submission to the A.U.C. asking for finance to complete Stage 1 and Stage 11 in the 1973-75 triennium.

DEGREES CONFERRED

The University's graduation day on Friday, 17th March, was the last (unless something unforeseen happens) to be held in Newcastle City Hall. In future, degrees will be conferred in the Great Hall at the university.

The City Hall held capacity audiences of families and friends of graduands at both the morning and afternoon Graduation ceremonies. The Chancellor, Sir Alister McMullin, admitted candidates to their degrees after they had been presented to him by the Deans of the respective faculties.

At the morning ceremony degrees were conferred in the Faculty of Arts, and degrees in the Faculties of Applied Science, Architecture, Economics and Commerce, Engineering, Mathematics and Science were conferred in the afternoon.

The occasional addresses were delivered by the Vice-Chancellor (morning ceremony) and the Chairman of the Australian Atomic Energy Commission, Sir Phillip Baxter (afternoon ceremony). Tea was served to graduands and their friends and relatives after both ceremonie

The Chancellor and members of the University Council gave a reception for the graduands in the Union on the night preceeding Graduation Day and following the ceremonies the Graduation Ball was conducted by Convocation in the City Hall.

Occasional address delivered by Professor Auchmuty:

It is a tremendous pleasure on behalf of the University to congratulate so many Arts Graduates and to welcome so many of their friend and relatives to this impressive ceremony – ceremony which we hope will be even more impressive when we meet in our own Great Hall on our Shortland site next year. We are all glad of this public opportunity to recognize the abilities and success of our new members Convocation who held their own private mom ents of satisfaction when the original results were announced but today are publicly associated with our pride and joy in their achievement. A Graduation Ceremony is one of the signs that a University is achieving its purpose, or at least one of its purposes and the one which is most easily measurable and recognizable by the general public.

At the two ceremonies today no less than 409 degrees at all levels and in all faculties have been or will be conferred: but as you can calculate from your programme there are no less than 210 graduates in the Faculty of Arts, 200 at the Bachelor Level, seven at the Masters and 3 Graduating as Doctors of Philosophy. This points to the remarkable recent development of our University and to the importance not only of the work done by so many senior students

but also of our contribution to the progress and welfare of our own community. Everyone knows that throughout the developed world today education is a major growth industry anxious to utilize what some would claim to be a disproportionate share of national economic resources. Be that as it may, we all know in Australia that although there may be limited job opportunities in certain areas of employment nevertheless the demand for teachers in our expanding education system is consistently increasing and many of you graduating here today are already committed to service with the State Educational System.

It is my hope that you bring to your teaching activities not merely knowledge of your subject but also a flexibility of mind which will develop with the changes of our evolving society. It should be the mark of educated men or women that they are forever learning and as the years progress I hope you all ensure that you keep up with your subject or develop new interests through refresher courses, continuing education or even working for a higher degree. A prime object of a University is the pursuit of excellence. We in this country express great pride in our national sports men and women, in our international record holders but we do not have the same regard for those outstandingly successful in our educational system. You are an elite group and therefore have special responsibilities and should never forget them: the proportion of each age group competent to benefit from a University education is small and those who avail themselves of the opportunity are even fewer yet without leadership of talent and innovation a nation must fall behind in the world struggle for existence. It is fundamental that mankind should develop all its talents to the fullest measure: and this is as true of intellectual talents as of any other – so I trust that those of you who teach will see to it that the talents of everyone of your pupils are developed to the fullest extent, whether they be slow learners near the foot of their class or near geniuses to whom knowledge and subject mastery apparently come easily. All men are equal before God, so all students should be equal before the teacher but special care must be taken that those for whom work appears easy are stretched to their utmost capacity. There is nothing more disappointing in a University than the known failure of some student to achieve the results all consider are merited; equally there can be no greater pleasure than to recognise those who have utilized their talents to the full and so there is today a special word of praise for our good honours graduates and for those who have proceeded to higher degrees. University success can give great opportunities. We are young as a University; even as a College, yet we have Arts Graduates in University posts in Britain, Canada, The United States, Holland and Denmark to my knowledge and recently for the first time an Arts scholar who took his first degree here in Newcastle was appointed to a Chair, that of French, at the University of New England (Dr. Grahame Jones). 'Naturally the majority of our graduates find their opportunities here in the Australian Commonwealth, but for the outstanding, the world is their opportunity and I hope opportunity is seized.

Some of you, of course, have progressed to your degrees the hard way. You have earned them by part-time study while earning a living and possibly supporting a family. in the teaching profession, in industry, or in some other rewarding occupation. To you we offer our special congratulations and also to the families who accepted your renunciation of many of the pleasures and activities of family and recreational life. This University is proud of the record of its part-time graduates especially of those from the Technological Faculties and it is confident of the educational value of sandwich and part-time courses in some areas; it feels in particular, a direct responsibility to the people of Newcastle and the community in general to continue to offer opportunities not equally available at other University centres.

The majority of today's graduates have known no other site but that at Shortland and now at last our entire student body is united in a single developing campus where many have complained and suffered at the inevitable noise of continuous building activity. For the first time in our history our building programme and our financial resources to meet it would appear to be in balance – we hope by the end of this year to have spent over $13,000,000 on building and developments on the Shortland site and to have completed the triennial programme of development before the last day of the triennium; already we are engaged in planning what we hope we will be authorized to erect in the next three years.

Our student body grows fast -- too fast for our comfort and more particularly for the comfort of the increasing and teaching staff still existing in cramped and limited surroundings. The 357 students of 1953 had been multiplied exactly ten times to the 3571 of last year and current enrolments would seem to be of the order of 3621. 1953 was also the year of the first graduation ceremony of the old university college which had been proclaimed at the end of 1951 and all of 3 degrees were then conferred; in the years between no less than 2557 degrees have been granted before the 409 to be added today and of these 1177 have been conferred in Arts. 942 of all the degrees were granted by the Universities of New South Wales and New England but our real increases in graduation rates have occurred since we achieved our independence in 1965 and the jump from last year's figures of 353 to this year's 409 I am sure you will agree is quite remarkable.

Nevertheless there are still some weaknesses in our development. The faculty of Arts is still too solidly practical: we should have departments in Fine Arts, Music, Asian Cultures and Languages, Theology and in other fields which would further develop aesthetic sensibilities rather than purely useful working skills. I know there has been recent criticism that Arts graduates are not necessarily easily and immediately employable on graduation but immediate and specific job training has never been the purpose of an Arts faculty as it has been of some professional faculties: its purpose should be to provide liberal education and a judicious choice of subjects, if the curriculum on offer is wide enough it can in fact provide a liberal education, and a preparation for life employment. One does not have to be a supporter of the women's liberation movement to declare as I have emphasized previously, that the proportion of women students in the University, only 26% in 1971, is far too low. This is not immediately apparent this morning since the overwhelming majority of existing women students are in the Faculty of Arts and as well 5 of the 8 University

Sir Phillip Baxter gives the occasional address at the afternoon Graduation ceremony.

Medallists are women but the very fact that so many have done so well further stresses the waste of intellectual resources suffered by the whole community by the fact that we do not have an equal cross-section of the talents of both sexes.

A University College was first proposed for Newcastle in 1853, it was one hundred years before the first graduation ceremony – the next twenty years is showing magnificent expansion. As you go out into the world I hope you will continue to remember the University of your choice with favour and we, for our part, will look forward to the opportunity to regard your achievements with admiration. On behalf of the whole University I repeat my congratulations to the graduates and diplomates and my good wishes to their many friends and relatives of all generations.

Occasional address delivered by Sir Phillip Baxter:

May I first offer my congratulations to today's graduates and share their enjoyment in completing a number of years of arduous study. May I also thank the Vice-Chancellor and the Council for inviting me to come here today and giving me this opportunity to visit the University again. I was particularly pleased that I was invited to give the Address at the graduation of students in the science based faculties – I think all those present this afternoon have some science in their disciplines – and I am very encouraged to see the excellent work which the University is doing in these all-important areas.

I am reminded of an occasion in the early days when Newcastle had a University College. At that time, there was a movement in Newcastle by people who held strong and sincere views that what the city required was an "Academic University", which they saw as being distinct in some way from the kind of University which they felt might grow out of the College, which was being developed by the University of Technology. The then Bishop of Newcastle was prominent in the expression of these views so with peace and understanding in mind the Vice-Chancellor and I went one day to see the Bishop to discuss the matter. He received us most courteously in his study, and after the appropriate preliminaries we came to the point. I said I did not understand what the proponents of an "Academic University" intended it to be and I inquired what it would be expected to teach. The Bishop smiled, sat back in his chair and said, "Ancient Greek". He then paused and after a little while added, "and Latin". There was then a long pause, and as nothing else seemed to be forthcoming I inquired whether that was all. After further thought he then said, "I think, yes I think possibly Theology". Our discussion ended most amicably, though I suspect the Bishop was indulging in a little theological leg pulling. I am glad, however, to note that the University of Newcastle, not withstanding these doubts about its parentage, has become renowned for an excellent School of Classics, and in addition to this has achieved and continues to achieve distinction in all those disciplines which are based upon science.

We have heard a good deal recently, both here and overseas. of the over-production of university graduates, and of their difficulty in finding employment. As a person who graduated in 1925, in England, when graduate employment opportunities were virtually non-existent, I can both understand this problem, and not be unduly concerned about it. The situation will improve. In any case, graduates based in science or engineering will, I believe, have no permanent difficulties though they will have to adapt to a buyer's rather than a seller's market. I recall that after graduating with first class honours, the University Medal and a Doctorate, I went into industry and spent a considerable time on shift work on the firing platform of a coal fired cement kiln. We worked seven shifts a week and sixteen hours at the changeover. It was dirty and unpleasant, but it did me a world of good, and I learned things I have never forgotten.

Today we are not likely to be so hard, but some real experience will not hurt anybody.

You can be sure the pendulum will swing back. Our future depends upon people who can practice in science and technology, and no temporary depression can alter this.

Although, because of the intense specialisation in their courses, today's graduates will have had but very limited time for extra-curricula reading, I feel sure that most of them will have read enough of the current concern in the world about the way our science-based civilisation is developing, to understand me when I refer to the growing belief amongst scientists and technologists and indeed amongst some others, that the world is set upon a collision course with disaster. That view is held by many competent people in many countries, including a number in Australia, who hold that man will face his greatest crisis somewhere between 20 and 50 years from now. This will be brought about by many complicated factors of which the main and overriding one is the exponential growth of world population, likely to go from 3.5 billion now to 7 billion by the turn of the century, and, if not interrupted double that amount 30 years afterwards. In parallel with this growth of population is the development in the affluent countries of consumption based civilisations the most extreme example of which is the United States of America, though we would rank for inclusion also. As a result. the world is consuming scarce resources at a rapidly increasing rate, and this may produce disastrous shortages, of some of these resources, in the not distant future. Notwithstanding the achievements of the green revolution, which many people believe to have been exaggerated, we cannot expect to see the world's food supply increase to keep pace with growing population, let alone overtake the current problem of malnutrition which afflicts so many. We therefore face the prospect, in many under-developed countries, of widespread famine accompanied by disease, civil war and other evil consequences before the turn of the century. A further manifestation of this situation is the rapidly increasing pollution of the environment mainly, though not exclusively, in the industrial countries, and this is of course related to the other factors which I have already mentioned.

There are signs that world opinion is awakening to these problems, but it is questionable whether what needs to be done can be done in the time available, even if the will to do it should be generated, and this is far from certain. The time is terribly short, and the point of no return may already have been passed.

I do not want to dwell at length today upon these problems, nor to speculate as to the form in which disasters may occur, whether nuclear warfare, whether the more conventional disasters of famine and disease or some new and as yet not experienced breakdown of social order brought about by overcrowding. This could be of the kind which has been observed so many times in experiments with animals. The point I do want to make to my audience of new graduates in science and technology is that they and people like them will have a major role to play in seeking to abate these troubles so far as this may be possible. Many of our problems have come about by the unbalanced use of science and technology, indeed overpopulation is due to this, to the reduction of the death rate by medical science and sanitation without a parallel effort on birth control, but these are extremely complex problems which are hard to understand without scientific knowledge. When such problems are identified, there is a tendency for the public to make simple, emotional judgements – judgements which often overlook the complex nature of the facts, and which may be in reality quite misguided.

Let me give one very simple illustration. You will all be aware of the concern which has been expressed in many quarters at the appearance throughout the world environment, in animals, birds, fishes and plants of small but detectable amounts of the insecticide DDT, and of the demands which have been made for the prohibition of the manufacture and use of this material. It is clear that DDT, which is a stable, persistent and toxic chemical, which is produced and dispersed in large quantities in the agricultural industries and in malaria control, is finding its way into the environment, and in certain special cases appears possibly to have affected one or two natural species. It is also clear that it is not building up in the environment as was once claimed, but maintains a level roughly related to the annual usage. There is no real evidence at the moment that it constitutes any threat to human health or life, but clearly it is something which needs to be watched and if necessary controlled. There is, however, a loud and emotional clamour for it to be banned. On the other hand, the use of DDT has enabled vast amounts of additional food to be produced and protected from pests, and large numbers of people have avoided death by starvation as a result. Moreover, the use of DDT in malaria control has probably saved millions of lives and eliminated untold misery and suffering in malaria affected communities. How is the judgement to be made? Are we not to weigh the advantages against the disadvantages? Are we perhaps to be so extreme as to say that in an overcrowded world the lives saved would have been better not saved? Would the dweller in a malaria infested jungle hesitate when offered the choice between certain lingering death from malaria, within the next year or two, and some hypothetical shortening of life span by a year or two, or other remote complaint due to the possible, but not proven effects of accumulated DDT residues? It is in matters of this sort that the world's leaders and our communities need advice from rational people who can understand the full scientific complications and implications of such a situation.

Graduates in science and technology will also be important in helping Australia to play its role in the world in the next 30 years. I believe that role will have two main aspects. Firstly, that Australia should, as one of the international community of nations, play what part it can in helping to avoid the global disasters which lie ahead. The role we can play is not very great and we should have no illusions about it. We can probably do more by offering wise counsel and advice than we can do in a material sense, though we should seek to do both.

Nevertheless, the intelligent and planned development of our country and its resources, the increase in our productivity and our capacity both to support a sensible number of selected people in Australia, and to supply such goods and food as we can to people in the rest of the world, will depend primarily upon our use of science and technology and the availability of people competent in the application of science to perform these duties. We shall also need far-sighted and understanding government.

We have seen much of Australia being developed scientifically by foreign organisations, with foreign scientists for largely foreign profit. For us to develop our own heritage requires amongst many other things that we have a sufficient supply of Australian practitioners in science – graduates in science and technology, who will come mainly, though not entirely, from the universities.

The second role which we must consider is this. If the world is overtaken by disaster, say by large scale nuclear warfare or other military operations in the northern hemisphere, or by famine and disease on a scale greater than the Black Death, with complete breakdown of social order in many places, then Australia may prove to be in some respects a unique country. Australia is not over-populated, although we are probably increasing our population at something close to the maximum rate compatible with the maintenance of an acceptable standard of living. We are not short, nor do we face any shortage, of essential foods, energy or raw materials. In a world disaster, we have an opportunity of being one of the few places which may escape the worst impact of whatever may happen, though that will require on our part careful planning and serious attention to many matters, including defence. We must not risk being overrun. You may not all accept as I do that in a world disaster situation it is important that in some places the cultural, artistic and scientific achievements of man so far, be preserved, so that they will provide a basis from which to go forward again. Australia could well be one of these places. If the situation arises, then our success in surviving will depend in large measure upon how far we can use our expertise in science and technology to ensure that survival, and it will be people like the graduates who are with us today to whom we shall look.

I have perhaps looked at a rather gloomy side of the world's future, one which many people today prefer to ignore or forget. To pretend it cannot happen, or to leave it to the will of God, is so easy. But the facts are hard and real. We are rather like a group of people in a bus which is running rapidly, with fouled brakes, out of control, down a steep place into the sea. There are optimists in the bus who are confident that the law of gravity is going to be reversed before they reach the water. A few, however, and they are probably scientists, are looking to the exit hatch and making sure they can open it. They perhaps will survive.

I wish our graduates in science, engineering and technology all possible success, in what will be, I am sure, years of great challenge and immense stimulation. I hope they will play the role destined for them with distinction.

The Chancellor admitted the following to degrees:

ARTS

DOCTOR OF PHILOSOPHY

Department of German

Marlene Joan Norst, M.A., Dip. Ed. (Syd.)
Thesis: "Julius Duboc and Robert Waldmuller".

Department of Psychology

John Arthur Davidson, B.Sc.,B.A. (Qld.)
Thesis: "Geometrical Models for the Representation of Preference Data"

The City Hall was filled to capacity for both of the Graduation Ceremonies.

John Lindsay Seggie, B.A.
Thesis: "An Investigation of Formal Operational Thought"

MASTER OF ARTS

Department of Classics

Terence Joseph Ryan, B.A., Dip.Ed.
Thesis: "Concept Analysis and Character Study in the *Opera Historica* of the Venerable Bede with Particular Reference to his Account of Early Papal Policy in Britain"

Department of English

Judith May Colman, B.A.
Thesis: "The Relation Between Art and Life in the English Novels of Vladmir Nabokov with Particular Reference to *Lolita* and *Pale Fire*"

Zeny Giles, B.A.,Dip.Ed.(Syd.)
Thesis: "The Concept of Eternity in the Poetry of Emily Dickinson"

Department of German

Linda Lou Lilley, B.A.
Thesis: "An Approach to *Die Blechtrommel* by Way of Gunter Grass's Female Characters"

Department of History

Graham Stanley Habgood, B.A.
Thesis: "Organized Separatist Movements in New South Wales in the Nineteenth Century: A Comparative Analysis"

James Douglas Moody, B.A.(Syd.)
Thesis: "The Development of Newspaper Press in Newcastle, 1855 - 1880"

Department of Psychology

Enid May Banks, B.A. (N.S.W.)
Thesis: "Dyslexia: A Problem of Serial Order"

BACHELOR OF ARTS

Evan Phillip Arthur (Classics – Honours Class 1 and University Medal); Annette Margaret Cook (German – Honours Class 1 and University Medal); James Cairns Docherty (History – Honours Class 1 and University Medal); Julie Louise Marshall (Psychology – Honours Class 1 and University Medal); Gary Maurice Brown (History – Honours Class 1); John Joseph Burston (Philosophy – Honours Class 1); Terrence Michael Caelli (Psychology – Honours Class 1); Richard Allan Johnstone (English – Honours Class 1); Dianne Margaret Osland (English – Honours Class 1); Peter Putnis (English – Honours Class 1); Keith Graeme Sivyer (French – Honours Class 1); Sandra Lee Wortley (Psychology – Honours Class 1); Dorothy Bennett (English – Honours Class II, Division I); Anne Therese Burgess (History Class II, Division I); Morris Richard Cotterill (Economics – Honours Class II, Division I); Judith Patricia Galvin (Geography – Honours Class II, Division I); Ross John Garfoot (German – Honours Class II, Division I); Barbara Norma Gow (Psychology – Honours Class II, Division I); Carolyn Beth Hanley (History – Honours Class II, Division I); Annette Charle Hughes (Latin – Honours Class II, Division I); Kerry Robert Hughes (Latin – Honours Class II, Division I); Roslyn Kay Kelly (Psychology – Honours Class II, Division I); Marian Margaret Lawson (Psychology – Honours Class II, Division I); Margaret Christine Nickolas (Geography – Honours Class II, Division I); Aldis Svirskis (English – Honours Class II, Division I), (Philosophy – Honours Class II, Division II); Margaret Julia Wessell (German – Honours Class II, Division I); Lee Frances Bromfield (Geography – Honours Class II, Division II); Philip Algy Butkus (Psychology – Honours Class II, Division II); Susanne Critchley (English – Honours Class II, Division II); Gary Kenneth Flynn (Psychology – Honours Class II, Division II) David Wayne Godfrey (English – Honours Class II, Division II); Adrienne Ellen Pears (Economics – Honours Class II, Division II); Paul William Richardson (English – Honours Class II, Division II); Brian Kenneth Wilks (History – Honours Class II, Division II); Jack Lyndon Lewis Newell (Education – Honours Class III); Pauline Abery, William Norman Adam, Derek Adams, Ronald Stanley Allen, Julia Anne Allomes, Joan Elizabeth Anson, Dennis Gerald Barnes, Valerie Ann Barnes, Selma Catherine Barry, John Richard Bartlett, Peter Francis Best, Andrea Dorothy Blackett, Maree Anne Bond, Christine Elizabeth Bowen, Kevin Andrew Brisbane, Dennis Arthur Peter Britton, Victoria Vaughan Bromhead, Garreth James Buchanan, Helen Margaret Burns, Bronwyn Anne Burriss, Maureen Imelda Casey, Pamela Joan Chandler, Cathy Lloyd Cheetham, Jennifer Joy Clement, Neville David Clement, Lindon Lysons Colless, Lorraine Beth Colman, Phillip Thomas Corbett, Maxwell Bertram Cox, Howard Bruce Cribb, Julie Maree Crofts, Maxwell Thomas Croker, Catherine Cussan, Helen Lorraine Danilenko, Murray Llewellyn Dawes, Walter Maxwell Dawson, Trudy Anne Derwin, Susan May Dodd, Ian Alexander Douglas, Gayle Marie Drury, Bryan Francis Dunn, Peter Raymond Edwards, Gai Elkington, Vicki Maree Elliott, Roslyn Joan Ellis, Christopher Simon Francis Enright, LL.B.(Syd.), Michael John Fauchon, Betty Patricia Fleming, Robert Arthur Freeman, Sandra Fren, Carl Norman Fulton, Lynelle Margaret Fulton, Go Ngo Hong Gregory, Edna Hazel Goodwin, Enid May Goodwin, Suellen Gray, Meril Claire Griffin, Lianne Milner Hafey, Linda Patricia Hamilton, Robert Barton Hansford, Sally Irene Harris, Barbara Sue Harrison, Bernice Ellen Hartman, Grant Hatch, Susan Gai Heather, Jill Ann Helps, Judith Anne Hindmarsh, Jill Huby, James David Imrie, Marilyn Una Jackson, Helen Jeanette James, Wayne Dallas Jeffrey, Kim James Johns, Yvonne Joy Johnson, Steven Frederick Jones, Maureen Cecilia Jurd, Larry Myles Keating, Mary-Anne Kilp, Denis Francis King, Margaret Kirkup, Anna-Maria Kizeweter, Erich Kreutzer, Juliana Lane, Catherine Clare Leary, James Phillip Leary, John Harold Leishman, Helen Ann Leitch, Joanna Carey Lindeman, Carolyn Lee Lingard, Jan Maria McAlpin, Vernon Robert McAlpin, Marie-Therese McDermott, Carolyn McEwan, Suzanne Jennifer McKim, Robyn Anne McQuarrie, Diana Joyce Madden, Susan Lorraine Maher, Edmund Irving Manning, Heather Mary Meldrum, Vicki Ann Mewburn, Susanne Christine Meyers, Helen Miletic, Lynette Robin Miller, Penelope Brand Miller, Paul Wallace Moore, Peter Alan Moore, Elizabeth Dorothy Morrison, Lana Moscovis, Margaret Elizabeth Munro, Jan Murray, Peter Murray, Michael Nelson, Kylie Joy Newman, Paula Jean Nichols, Jennifer O'Donoghue, Paul Ashley O'Toole, Pamela Jennifer Pallett, Susan Mary Paris, John Cunningham Parkinson, Cheryl Paton, Anthony Frank Paynter, Leslie Irene Plumbe, Philip John Irvine Priest, Stephanee Jan Reay, Michael James Rees, Peter Gerard Rees, Lesley Kaye Reid, Wayne Maxwell Reynolds, Ann Louise Richardson, Marie Noelene Richardson, Kristine Lynette Riding, Brenda Mary Riley, Judith Ann Ruff, Barbara Elizabeth Sargeant, Robert John Sargent, Otto Karl Scevak, Thomas Eric Schmied, Vicki Ann Shearston, Terrence George Sheetrum, Alan Rodney Simpson, John Joseph Skehan, Peter Douglas Spencer, Allan Paul Spicer, Lorraine Patricia Stallard, Carolyn Laura Symes, Tang Sau Tak Jennie, John Graham Thomas, Judith Irene Thomas, Stuart Charles Burton Thompson, Dennis John Thurlow, Robert Milton Toll, Kenneth Arthur Tregloan, Wendy Frances Tripp, Elizabeth van Santen, Trevor Clifton Waring, Robert Weir, Jayne Whiley, Trevor Noel Wilson, Judith Mary Wood, Anne Maxine Wright, Terry Bruce Yardy, Charlotte Clark Young, Phillip John Young, Zanariah binte Abdul Rahaman.

DIPLOMA IN EDUCATION

Joy Elizabeth Amour, B.A., Barry John Armstrong, B.A., Ibrahim Khalil Attalla, B.Sc. (Agri.) Cairo, Janice Marea Barker, B.A., Robert Geoffrey Barker, B.A., Francine Margaret Barnett, B.A., Robyn Diane Bensley, B.A., Renate Hermine Anna Bickley, B.A., Lynette Mary Blackhall, B.Sc., Ross Desmond Boyd, B.A., Alan Edward Brady, B.A., Christine Joy Bridge, B.A., Garry Ross Brown, B.A., Susan Elizabeth Caskey, B.A., Colleen Frances Clarke, B.A., Patricia Anne Collier, B.Sc., Julienne Gay Cooper, B.Sc., Sharyn Ellen Craig, B.A., Ann Gerardine Curran, B.A., Mervyn William Curran, B.Sc., Julianne Scott Daisley, B.A., Valerie Ann Dibben, B.A., Veronica Luba Djakiew, B.A., Peter Raymond Dodd, B.Com., Christine Roma Donohoe, B.A., Peter James Donohoe, B.Sc., Gregory Walter Douglas, B.A., Kerrie Lynne Duckworth, B.A., John Dugas, B.A., Leonie Eade, B.Sc., Robyn Kay Floyd, B.A. (Syd.), Catherine Therese Fogarty, B.A., Brian John Gilligan, B.A., Joan Maree Gollan, B.A., James Francis Graham, B.Com., Vicki Grecki, B.A., Judith Ann Gronold, B.A., Colin Charles Hamilton, B.Sc.(Tech.), Christine Margaret Hardy, B.A., Bona Elizabeth Harvey, B.A., Patricia Anne Hatherly, B.A., Marie Frances Hill, B.A., Janice Anne Hillier, B.A., Wayne Arthur Holland, B.Sc., Dianne Hughes, B.A., Roslyn Joy Jackson, B.A., Ludmila Jewlachow, B.A., Margaret Ann Jones, B.A., Yiannoula Karanges, B.A., Mary Lynette Karpiel, B.A., David John Knight, B.Sc., Vincentia Josephine Knight, B.A., Janet Awad Koussa, B.A.(Cairo), Darrell Robert Lang, B.A., Lee Tsing Yuan, B.A. (Lond.), Kerri Leigh Legovich, B.A., Marjory Gale Lewins, B.A., Olga Livanos, B.A., Barbara Anne Logan, B.Sc., William Andrew Lord, B.Sc. (Melb.), Barbara Anne McBride, B.A., Judith Ann McClure, B.A., Timothy Bernard McGrane, B.A., Imants Magrics, B.A., Sue Melville, B.A., Valerie Joy Noake, B.A., Peter John Orman, B.A., Francis Alfred Osborne, B.Sc., Thomas Palagyi, B.A., Robert James Parker, B.Sc., Penelope Jane Patterson, B.A., Anna Christina Petersons, B.A.(Syd.), Andrew Anthony Pitt, B.A., Hazel Porritt, B.A., John Maxwell Price, B.A., Monica Agnes Rae, B.A., Margaret Ann Reardon, B.A., Susan Margaret Richards, B.A., Helen Richard, B.A., Margaret Kay Roberts, B.A., Denise Therese Smee, B.A., Lesley Evelyn Stead, B.A., Jill Steel, B.A., Hartyati Sulistyaningsih, B.Sc., Lesley Evaline Thomsen, B.A., Rodney James Tudball, B.A., Peggy Christine Twemlow, B.A., Richard Anthony Walker, B.A., Dennis James Walsh, B.A., Jennifer Joan Watson, B.A., Peter Emil Webb, B.A., Michael Charles Wenham, B.A., Anne White, B.A., Johannes Ludovicus Albertus Wigman, B.Sc. (Adel.), Dorothy Bernadette Woodward, B.A., Judith Anne Woodward, B.A., Radmila Yates, B.A.

APPLIED SCIENCE
MASTER OF ENGINEERING
Department of Metallurgy

John Marshall Burgess, B.E.
Thesis: "Reactor Mechanisms of the Entraining Plunging Jet"

MASTER OF SCIENCE
Department of Metallurgy

Barry Ian Dillon, B.Sc.(N.S.W.)
Thesis: "The Thermal Stabilization of Austenite in Steel"

BACHELOR OF METALLURGY

Leslie Walter Hutchinson (Honours Class II, Division I)
Neil Robertson Smith (Honours Class III)

BACHELOR OF SCIENCE (METALLURGY)

Edgar Martin Burnard, Christopher Lance Carey, Paul Raymond Field, Michael Francis Hutchens, Stephen Arthur Lloyd, William Paul Martin, John Philip Mullard, Fraser Ritchie, Richard Darryl Strange.

BACHELOR OF SCIENCE (TECHNOLOGY)
Department of Industrial Chemistry

Henry Marian Goczol, John Walter Griffiths.

ARCHITECTURE
MASTER OF ARCHITECTURE

Ross Moxey Deamer, A.S.T.C.(Arch.)
Thesis: "Houses Erected on Original Land Grants in the Lower Hunter, Paterson and Williams River Valleys between 1800 - 1850"

BACHELOR OF ARCHITECTURE

Peter William Walter Hedley (Honours Class II)
David John Stafford (Honours Class II); Henryk Edward Chojenta, Fong Kwai Hing, Ip Ping Chi Tony, Lee Kian Siew, Liu Kah Teck, Low Ing Ming, Bruce Alan Lowe, Charles Edmund Martin, David Patrick Mather.

ECONOMICS AND COMMERCE
BACHELOR OF COMMERCE

Owen Scott Armstrong (Commerce – Honours Class II, Division I); Graham Mitchell (Commerce – Honours Class II, Division I); Mohd Razali bin Abdul Rahman (Commerce – Honours Class II, Division I); Lu Cheng Lueng James (Economics – Honours Class III); Siti Maimun binte Kamso (Economics – Honours Class III); Mohamed Nor bin Abdul Hamid, Gregory John Anderson, Ghazali bin Awang, Geoffrey Alan Bell, Leslie Allan Brien, David Geoffrey Caldwell, Vincent Anton Casey, Chuah Seong Aik, Paul Anthony Danks, B.Sc.,Dip.Ed., (N.S.W.); Grahame Robert Dowling, Michael Colin Dwyer, Glyndon William Fox, Allan John Goodwin, Hasan bin Husin, Stuart James Hayward, Katalin Heiner, Thea Joan Hopson, Huang Padona Hiu Fong, Mohammed bin Haji Hussain, John David Jodvalkis, Gary Robert Jones, Kerry Ross Jones, Khor Swee Wah Rosie, Lai Kin Lam, Saleha Lajim, David James Lunney, Kevin Leslie Lyall, Paul Kinloch McCormack, Euan Gordon Melville, Kevin Maxwell Nowland, Marion Ruth Power, Brian Richard Rowell, Michael Damien Slater, Ihor Stankewycz, William Stewart Taylor, Nguyen-Thi-Thanh-Nu, Ting Hwong Ling, Tsia Loi Kah, Laura Joan Williams.

ENGINEERING
DOCTOR OF PHILOSOPHY
Department of Chemical Engineering

Keith Lyne Smith, B.E.(Syd.),M.Sc.(N.S.W.)
Thesis: "Mass Transfer with Chemical Reaction in Agitated Vessels"

Terry Fitzgerald Wall, F.R.M.I.T.(Chem.Eng.)
Thesis: "The Measurement and Prediction of Thermal Radiation from the Flame Zone of Industrial Tangentially Fired Pulverised Coal Furnaces"

Department of Civil Engineering

Robert Gerard, B.E., A.S.T.C.
Thesis: "Turbulent Flow in Noncircular Conduits"

John Patrick Moriarty, B.E.,M.Eng.Sc.(Melb.)
Thesis: "A Structural Model of Stabilized Clay Soils"

MASTER OF ENGINEERING
Department of Chemical Engineering

William John Preston, B.Sc.(Tech.) (Manc.)
Thesis: "Studies on the Transport of Solids in Near-Horizontal Fluidised Beds

New graduates in Arts, Vicki Shearston, Marie-Therese McDermott and Vicki Elliott.

Department of Civil Engineering

Edward Hamilton Fletcher, B.Sc.(Tech)
Thesis: "Displacement Patterns within Granular Masses"

MASTER OF ENGINEERING SCIENCE
Department of Chemical Engineering

Garry James Chadban, B.Sc.(N.S.W.)
William Patrick Shannon, B.Sc.(N.S.W.)

Department of Civil Engineering

Peter James Cooper, B.E.; Peter Phillis, B.Sc. (Eng.)

Department of Electrical Engineering

Tam, Kai-Shing, B.Sc.(Eng.)

Department of Mechanical Engineering

Anwar Uddin Ahmed, B.E.(Q'ld.); Barry John Hill, B.Sc.(Eng.); Lee, Cho-Kuen Francis, Dip. Mech.Eng.(H.K.T.); Gary Denis McCarthy, B.E. George Youry O'Sachy, Dip.Mech.Eng., Dip. Bus.Admin.(Q.I.T.); Nurrochmat Sawolo,B.E. (Tas.)

BACHELOR OF ENGINEERING/
BACHELOR OF SCIENCE
Department of Electrical Engineering

Peter James Wortley, (Honours Class II, Division I in Electrical Engineering); Bruce Mervyn Devir, James Wilfred O'Sullivan.

BACHELOR OF ENGINEERING
Department of Chemical Engineering

Geoffrey Ross Morley (Honours Class 4 Division II), Raymond Edgar Mulley.
Gary William Nichols (Honours Class I); Peter Richard Bensley (Honours Class II, Division II); Barry James Bradley, Ian Broadfoot, Michael Richard Ell, Robert John Merkenhof.

Department of Electrical Engineering

Foo, Say Wei (Honours Class I and University Medal); Ho, Jin Young (Honours Class I); Kwong, Chun-Keung Ken (Honours Class I); Colin John Barlow (Honours Class II, Division I); Douglas Lynch (Honours Class II, Division I); Reginald Christopher Pogonoski (Honours Class II, Division I); Dugald McLeod Campbell, Bodo Checinski, Kenneth Raymond Virtue, Michael Gerard Winborne.

Department of Mechanical Engineering
Industrial Engineering

Ho, Gien Tou (Honours Class I and University Medal); Chia, Whye Liang Anthony (Honours Class I); Lim, Chong Hin (Honours Class II, Division I); Mani, Dharma Rajan (Honours Class II, Division I); Poon, Boon Ping Bernard (Honours Class II, Division I); Tay, Buan Huat (Honours Class II, Division I).

Mechanical Engineering

Russell John Coleman (Honours Class I); Ng, Chong Thong (Honours Class II, Division I); Brian James Grennan (Honours Class II, Division II); Chng, Eng Cheng.

BACHELOR OF SCIENCE (ENGINEERING)
Department of Chemical Engineering

John Russell Cox, John Phillipson, Patrick John Wallace, Francis Joseph Yates.

Department of Civil Engineering

Richard Howard Lane

Department of Electrical Engineering

George Henry Curan, Ralph Daniel Kraemer, Neville Warren Morrow, Neil Stewart Murnain, Errol Leonard Schipanski.

Department of Mechanical Engineering

Chan, Chung-Bor – with Merit; William John Cedric Eldridge, Wieslaw Motyka, Geoffre Robert Peattie, Ian Geoffrey Zimmerman.

MATHEMATICS

DOCTOR OF PHILOSOPHY

Brailey Sims, B.Sc.

Thesis: "On Numerical Range and Its Application to Banach Algebra"

BACHELOR OF MATHEMATICS

Robert Oswald Blackwell (Honours Class I); Timothy James Dalby (Honours Class I); Bruce Douglas Morrison (Honours Class I): Carolyn Anne Payne (Honours Class I): Michael John Bell (Honours Class II, Division I); Joan Ann Cooper (Honours Class II, Division I); Laimonis Kavalieris (Honours Class II, Division II); Brian William Bowe, Edward Bradley, Allan John Darroch, Jill Marquet, Allison May Smith, Colin Bruce Stewart, Jessie Christine Thelander, Wee Kang Hiong, Science.

SCIENCE

DOCTOR OF PHILOSOPHY

Department of Chemistry

Margaret Ellen Bridson, M.Sc.(Auck.)

Thesis: "Studies in the Co-ordination Chemistry of some Transition Metals, Especially Cobalt and Copper"

Richard John Casey, B.Sc.

Thesis: "Surface Chemical Studies of the Higher Vanadium Oxides"

Sidney John Cole, M.Sc.(Melb.)

Thesis: "Ligand Binding in Metalloporphyrin Systems"

Terrance James Haig, B.Sc.

Thesis: "Approaches to the Synthesis of Xanthorrhoeol and Related Compounds"

Department of Geology

Ian Douglas Blayden, B.Sc. (N.S.W.)

Thesis: "On the Structural Evolution of the Macquarie Syncline"

Department of Physics

Frank Thomas Bagnall, B.Sc.(N.S.W.), M.Sc. (N.E.)

Thesis: "A Contribution to Pcl Propagation Concepts"

MASTER OF SCIENCE

Department of Chemistry

Roger Graeme Gillard, B.Sc.

Thesis: "Ligand Binding on Iron Porphyrins"

Kari Lehtonen, B.Sc.

Thesis: "Some Aspects of Chemistry in Fungicides"

Department of Physics

Robert Barry Knott, B.Sc.

Thesis: "The Propagation of Pcl Geomagnetic Micropulsations in a Thermal Magnetasphere"

Roland Lubin Paine, B.Sc.

Thesis: "Aspects of VLF Emissions, The Quasi-Periodic VLF Emissions"

Department of Psychology

Helen Margaret Clark, B.Sc.

Thesis: "Aboriginal Assimilation in Two Communities"

BACHELOR OF SCIENCE

Elizabeth Anne Cousins (Mathematics – Honours Class I and University Medal); Anne Maria Vogelzang (Mathematics – Honours Class I and University Medal); George Paul Boshev (Chemistry – Honours Class I); Edward Keith Campbell (Physics – Honours Class I); David Ross Gray (Geology – Honours Class I): John Francis McCann (Chemistry – Honours Class I); Stafford William McKnight (Geology – Honours Class I): Bronwyn Scott Thomas (Chemistry – Honours Class I); David John Whitford (Geology – Honours Class I); David William Bewley (Geology – Honours Class II, Division I); Dudley Duncan Waters (Geology – Honours Class II, Division I); Johannes Bonsing, Kenneth James Brown, Dale Andrew Carney, Raymond George Dawes, Michael Gordon Diemar, Vicki Ann Diemar, Grahame Dobinson, Richard William Donkin, Lynn Fraser, Bernard John Griffin, Vincent John Hall, Paul Geoffrey Harrison, Carolyn Heath, Anne Lyndall Henderson, Ann Jarvie, Susan Kidd, Karl Franklin McLaughlin, Gregory Thomas Meldrum, Paul Owen Melmeth, Paul Leendert Rodenhuis, Ellen Sheerin, Rona Basaria Siregar, Charles Louis Spontak, Denise Mary Strickleton, Barbara Weatherstone, Danny Russel Williams, Beverley Eileen Wilson.

Diploma in Industrial Engineering

Roger David Allen, B.Sc. (Leeds), Leigh Brian Daley, B.E.(N.S.W.), Michael Vining Hobbs, B.Sc., Colin Alexander McRae, B.Sc.(N.S.W.), A.S.T.C., Robert Anthony Smith, B.E., Nicolaas Gysbertus Weyland, K.V.M.-A.M.(Ams.)

PRIZES

Applied Science

The Daniel Clark Award: Michael F. Hutchens.
The Broken Hill Pty. Co. Ltd. Prize: Gregory N. Booth.
The Australian Institute of Metals (Newcastle) Branch Prize: *Shared* Michael F. Hutchens, Paul R. Field.
The Australian Institute of Mining and Metallurgy Newcastle Women's Auxiliary Prize: Michael F. Hutchens.

Architecture

Board of Architects of New South Wales Prize: David J. Stafford.
James Hardie Prize in Architecture: David J. Stafford.
The Royal Australian Institute of Architects (Newcastle Division) Prizes in: –
Year I or Stage I: Carol A. Seymour.
Year II or Stages 2 and 3: Colin R. Filmer.
Year III or Stages 3 and 4: Alan J. Butler.
Year IV or Stage 5: Esa bin Mahamed.
Year V or Stage 6: David J. Stafford.

Arts

The Newcastle Morning Herald Prizes in: –
English I: Noel King; English II: Carl Boyd; English III: Phillip J. Stevenson; English IV: Dianne M. Osland.

The Helmore Prize in French I: Peter R. Moss.
The Gertrude Helmore Prize: Philip J. Paterson.
The Ernest Helmore Prize: Stephen J. Wile.
The Geographical Society of N.S.W. Prize: Miroslava Mladenovich.
The Sarah Wheeler Prizes in: –
History I: Walter J. Ogle; History II: Brian R. Everingham; History III: Gary F. Quinlan.

The Council of the City of Newcastle Prize: 1970: Anne T. Burgess; 1971: James C. Docherty.
The Philosophy I Staff Prize: John L. Bennett.

Economics and Commerce

The Broken Hill Pty. Co. Ltd. Prize in Accounting I: Brian L. Penfold; Accounting IIB: John C. Parkes.

The William Forsythe Prize in Auditing: Gilbert M. Watters.

The Finance and Guarantee Co. Ltd. Prize in Taxation: Alexander R. MacNeill.

The Northumberland Permanent Building and Loan Co. Prize in Legal Studies II: David G. Caldwell.
The Tubemakers of Australia Prize in Accounting: Mohd Razali bin Abdul Rahman.
Australian Society of Accountant's Prize in Accounting IIA: David R. Forsythe; Accounting IIIA: David G. Caldwell.
The Commonwealth Bank's Prize in Accounting IIIB: Mohd Razali bin Abdul Rahman.
The I.C.L. Prize in Accounting Systems and Computer Applications: William H. Fischer.

The Australian Institute of Management's John Storey Memorial Award in Management Studies I: *Shared* William H. Fischer, Mark J. Tippett.

C.J. Chandler Prize: Paul W. Fulton.

The Morison Prizes in: –
Economics I: Paul W. Fulton; Economics II: John S.K. Gordon; Economics III: Kathryn Lamb; Economics IV: Morris R. Cotterill.

A.J. Day Memorial Prize (Economics): *Shared:* Morris R. Cotterill, Adrienne Pears.

Australian Finance Conference Prize in Monetary Economics: Seong Aik Chuah.

Australian Institute of Management's John Storey Memorial Award in: –
Industry Economics: Mary-Lyn A. Tapscott;
Labour Economics: Mary-Lyn A. Tapscott.

The Economics Society Prize: Morris R. Cotterill.

Shell Prize in Economics and Commerce: Stanley E. D. Jolly.

Engineering

The Broken Hill Pty. Co. Ltd. Prize in Engineering: –
Dept. of Chemical Engineering: Alan M. Searant.
Dept. of Civil Engineering: *Shared:* Robert N. Staniland, Stephen J. Weatherstone.
Dept. of Electrical Engineering: Peter G. Swiney.
Dept. of Mechanical Engineering: Meng Ching Chew.
Institution of Engineers, Australia, Newcastle Division, Prize: Ho, Gien Tou.
The Australian Institute of Steel Construction Prize – Third Year: Raymond J. Hinchey.
The B.B.R. Australia Prize Ltd.: Gary W. Nichols.
The James Hardie Water Resources Engineering Prize: Gary W. Nichols.
The Morison Prizes in Engineering: –
Junior: Choon Lim: Senior: Kee Huat Tan.
W.F. Clegg Memorial Prize: Ho, Gien Tou.

Mathematics

Mortimer Temple Prize in Mathematics I: Le Tan Khoa.

The I.C.L. Prize in Numerical Mathematics: *Shared:* Le Tan Khoa, Martin Taylor.
Second Year Mathematics Prize: James M. Cross.
Third Year Mathematics Prize: Peter R. Nickolas.

SCIENCE

The Broken Hill Pty. Co. Ltd. Prize in First Year Science: Nam W. Yeap.

Royal Australian Chemical Institute Prize in Chemistry II: Russell R. Reeves.

Courtaulds (Aust.) Ltd. Prize in Third Year Chemistry: Richard W. Donkin.

C.S.R. Chemicals Prize in Chemistry IV; Bronwyn S. Thomas.

Edward John Phillips Memorial Prize in Geology I: Stephen L. Hancock.

John Fallins Prize in Geology II: Brian H. Blackshaw.

Irene Vitnell Memorial Prize in Geology IIIB: Gregory T. Meldrum.

Frank Stoddart Prize in Sedimentology: Gregory T. Meldrum.

Apollo Commemorative Prizes:
Physics II: Gregory N. Booth; Physics III: Donald D. Richardson.

CONVOCATION

Convocation's annual general meeting ended with five members having been elected to the Standing Committee. They were Messrs. C.J.A. Cornelius, K. Hoffman, P.A. Marquet, J.W. Armstrong and Mrs. E.G. Hamilton.

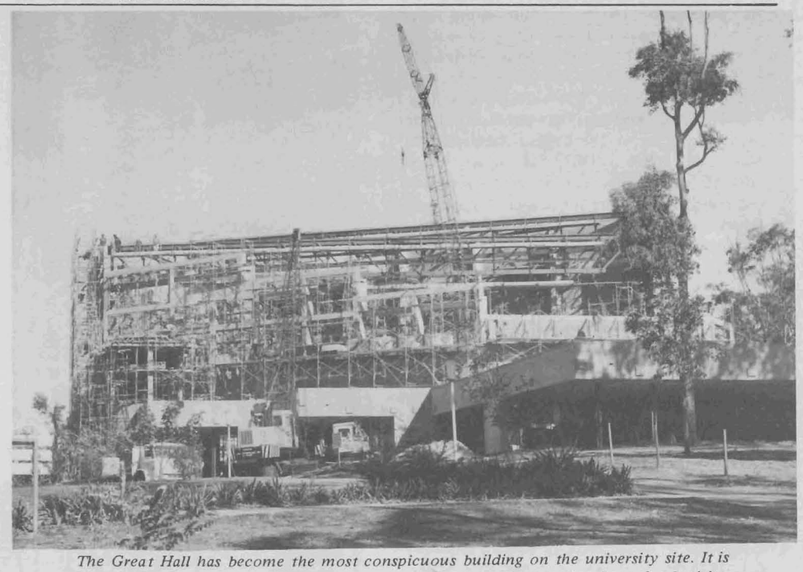
Members whose terms of office had expired are: Miss M. Kane, Associate Professor C. Keay, Mr. P.D. Alexander and Mr. G. Butler.

Passed at the meeting on **5th May** was a motion which amended the constitution so that the Immediate Past Warden joined the Standing Committee. The incumbent of this office is Mr. J.P. Talty, who vacated his position as member of the committee.

The Standing Committee consists of Mr. W.G. Derkenne (Warden), Miss F. Burns (Secretary), Mr. Talty, Dr. P. Richards, Dr. N. Rutherford, Professor E.O. Hall, Mrs. Hamilton, Messrs. Ken Moss, J.A. Sara, R.W. Gibbins (Treasurer), Hoffman, Cornelius, Marquet and Armstrong. (Mr. Moss was added at the committee's meeting in June to fill a vacancy caused by the resignation of Mr. B.W. Vitnell.)

At the annual general meeting Dr. P.I.A. Hendry, member of the University Council elected by Convocation, was thanked by the Warden for his past services. Dr. Hendry did not stand for re-election to the Council.

The Warden reiterated that the provision of the main doors for the Great Hall of the University was Convocation's fund-raising project for 1972. He said the Great Hall would be the most architecturally important building on the university site, a focus for university life and a place where community functions could be held. The Great Hall doors would enable Convocation to be represented in a special way.



The Great Hall has become the most conspicuous building on the university site. It is expected to be completed before the end of this year. Convocation has a fund-raising drive to finance the doors.

Alderman Leo Port, member of Sydney City Council, chose "Some Aspects of the Sydney Strategic Plan" as his subject when he agreed to give the address at the meeting. Ald. Port was introduced by the Warden, delivered his address and answered questions. A book explaining the Sydney Strategic Plan was presented by him to the Library.

The Standing Committee received a favourable report on the 1972 Graduation Ball, which Convocation conducted as usual. A $354 profit was made. Mr. E. Buckman said approximately 800 people attended, filling Newcastle City Hall to capacity. He estimated that 150 more people had requested tickets after bookings had been closed. Consideration should be given to the staging of two Graduation Balls instead of one to allow the demand for tickets to be met. In this connection, Mr. Buckman was asked to prepare a recommendation for discussion at the Standing Committee's meeting in September.

At the meeting of the Standing Committee **on 23rd May,** Messrs. Cornelius and Hoffman were elected to join the Graduates Afar Sub-Committee. They and Mr. Sara now constitute the sub-committee. Prior to the Gazette going to press, the sub-committee was implementing suggested ways of encouraging graduates to become more active Convocation members.

At the meeting of the Standing Committee on **27th June,** Mr. Gibbins reported that $1,300 had been realised by the appeal for funds for the purchase of the doors for the Great Hall. Since approximately $4,000 is needed, a fund-raising committee (Mr. Talty, Convenor, Miss Burns and Messrs. Hoffman and Gibbins) was elected to recommend new ways of obtaining funds. The Warden has invited members of Convocation to assist the Standing Committee's appeal by sending donations to The Secretary of Convocation, University of Newcastle, 2308.

The Graduates Afar Sub-Committee made suggestions on how interest in Convocation might be promoted. Firstly, the assistance of the university should be requested with keeping the register of addresses up to date. The Vice-Chancellor's co-operation should be sought to ensure that all graduands are made aware of their pending membership. The sub-committee also submitted a list of publications which might be used to communicate with graduates.

The Standing Committee received the suggestions favourably and authorised the sub-committee to draft proposed letters to the Vice-Chancellor seeking his help and to graduands welcoming them to Convocation. In addition, the number of publications in which the activities of Convocation are reported will, if possible, be increased.

Mr. Marc Caillot, who is teaching at an English school, and Mr. Butler have been asked to meet in England and discuss the possibility of Convocation holding a reunion for graduates of the university who reside in England. Mr. Caillot and Mr. Butler would organise the function with the guidance of the Graduates Afar Sub-Committee. Mr. Sara is keeping Mr. Caillot informed about the progress he is making with the preparation of a list of graduates who have moved to England.

The annual Convocation dinner has been postponed from second term to late in third term. The address will be given by the Chief Justice for N.S.W., Mr. Justice Kerr.

The Standing Committee has approved in principle the amendment of the By-laws so that "friends of the university" can participate in University and Convocation affairs. The scheme will cater for people who are interested in the university but are precluded from joining Convocation because they are not graduates. The Warden and Miss Burns will report back on the necessary constitutional changes.

As previously reported, Convocation has launched a series of seminars designed to keep members better informed about university affairs. The proceedings of the first seminar, held on 10th March, has been published by TUNRA and members of Convocation are invited to write to The Cashier, University of Newcastle, N.S.W., 2308, for copies, which cost 60 cents each. The seminar considered the relationship between Colleges of Advanced Education and Universities, speakers being Professor L.N. Short, Dr. R. Werner and Mr. G.H. Duncan.

Convocation also staged a successful seminar at the university on 21st July. The seminar, a very timely one because the theme was "The Establishment of a Medical School in Newcastle - Politics, Problems and Prophecies", brought together many medical practitioners and members of Convocation. The Issues-Education Sub-Committee (Professor E.O. Hall, Mr. Marquet, Dr. Richards and Dr. K.H. White) had arranged for the following speakers to address the seminar: Dr. S. Sax, Director of Planning and Research, N.S.W. Department of Health; Professor D.L. Wilhelm, Professor of Pathology, University of N.S.W. and Professor F.O. Stephens, Associate Professor of Surgery, University of Sydney.

A seminar will not be held in Third Term. Instead, the Vice-Chancellor will address the general meeting to be held on 13th October on the results of the university's proposals for the 1973-75 triennium. The Australian Universities Commission is expected to make public its recommendations to the Commonwealth Government soon.

UNIVERSITY NEWS

Ali Mazrui, Professor of Political Science and Government at the University of Kampala, Uganda, visited Newcastle as Dyason Lecturer. Professor Mazrui was taken on a tour of the campus.

Dr. Bailey Sims, who received his Ph.D. degree at the last Graduation Day, is now a Lecturer in Mathematics at the University of New England.

Plans for the first stage of the **Biological Sciences building** have been approved by the Australian Universities Commission. The building will be on three levels and similar in style and layout to the present Chemistry building, although it will be only about 100 feet long compared with Chemistry's length of 140 feet.

The Deputy Chancellor, **Dr. G.A. Edwards,** was made a Member of the British Empire in the Queen's Birthday Honours List.

Professor B.D.O. Anderson, Head of the Department of Electrical Engineering, is one of four new members of the Australian Research Grants Committee whose appointments were announced recently by the Minister for Education and Science (Mr. Fraser).

State IIA of the Library was completed in July. Kathy Rodgers and Mick Fauchon, members of the library's staff, were photographed transferring books to the new wing.

Professor B. Boettcher has taken up his appointment to the Chair of Biological Sciences. A Bachelor of Science and a Doctor of Philosophy in the University of Adelaide, Professor Boettcher was previously attached to the School of Biological Sciences, Flinders University.

Professor C.A. Tisdell, who has taken up his appointment to the second Chair of Economics, is the first scholar who pursued his undergraduate studies at Newcastle to be appointed to a Chair at this University. He had a distinguished undergraduate career at Newcastle and received his Ph.D. at the Australian National University. Professor Tisdell had been on the staff of the Economics Department at A.N.U. since 1966.

Dr. G.S. Halford, Senior Lecturer in Psychology, resigned in June so he could take up an appointment at Queen's University, Kingston, Ontario, Canada.

Dr. T.F. Wall, whose Doctorate in Philosophy was conferred at the last Graduation Day, has been awarded a C.S.I.R.O. post-doctoral fellowship to allow him to study in Great Britain. He expects to leave sometime in December.

The Vice-Chancellor accompanied by Mrs. Auchmuty, visited Canada in May to participate in Council Meetings of the Association of Commonwealth Universities. He also visited the State University of New York and, on the way back to Australia, via England and Africa, visited the Universities of London, Nairobi and Addis Ababa.

The Department of Chemical Engineering held a **residential intensive course** entitled "Combustion and Furnace Heat Transfer" in May. Edwards Hall provided accommodation for 55 of the people who attended the course.

Mr. Frank Hardy, author and T.V. personality, was guest speaker for the twelfth Annual Dinner of the University Union on 8th July.

Mr. I.A. Douglas, who received his B.A. this year, has been appointed by Newcastle City Council as Reference Librarian at Newcastle Public Library.

The Deputy Vice-Chancellor, **Professor E.O. Hall,** visited New Zealand for two weeks, calling at the Universities of Auckland, Massey, Wellington, Christchurch and Otago, visiting the works of New Zealand Steel Limited and the Departments of Scientific and Industrial Research, and holding discussions with the New Zealand University Grants Committee and the New Zealand Atomic Energy Committee.

Mr. K.F. Collis, Senior Lecturer in Education, visited Western Samoa and Tonga in May and June at the request of the Department of Education and Science to advise on mathematics education.

Overseas academics who have visited, or are still visiting, the university include **Professor H.C. Hottel,** of Massachusetts Institute of Fuel, who was attached to the Department of Chemical Engineering, **Professor H.L. Langhaar,** of the University of Illinois (Mechanical Engineering), **Associate Professor C. Byron Winn,** of the University of Colorado (Electrical Engineering), **Dr. Hans Liebeck,** of the University of Keele (Mathematics), and **Dr. D.O. Koehler,** of the University of Miami, Ohio (Mathematics).

The University was host for Rugby and Rowing inter-Varsity Competitions in May. Rugby matches were played in Newcastle, but the Manning River was selected as the venue for rowing events, R. Wilkinson, R. De Tozer and T. Angus T. Angus was selected in Combined Universities Rugby Fifteen. The Chancellor went to Taree to present the trophies for the rowing competitions.

The Inter-Varsity **Badminton** Contest was held in Tasmania and Newcastle Men's and Women's teams were each placed second. Alison Smith, Gwenda Trotman, K.H. Wee and S.H. Goh were selected in the Combined Universities team.

Brent Couper, a member of the University's men's **Basketball** team, was chosen to play for Combined Universities when Melbourne University hosted Inter-Varsity teams.

Judy Walters was named to play in the Combined Universities **Hockey** team and Paul Harrison. Trevor Leeden and Harry Aleuizes were selected in the Combined Eastern Zone **Australian Rules team.**

Professor H.M. Lieberstein, who is attached to the Faculty of Mathematics, organised a session at a conference on "Pollution: Engineering and Scientific Solutions" held in Tel Aviv, Israel, in June. He also attended an international conference on water pollution research in Jerusalem.

Father Guillermo Tejon, a Spainiard, has taken up his appointment at Catholic Chaplain to the university. He holds a theology degree in St. Theresa of Avila College, Spain, a B.Lit. degree in the University of Oxford and a Doctorate of Philosophy degree in the University of Manila. Father Tejon belongs to the Dominican Order.

The Vice-Chancellor expressed deep regret when the deaths occurred in May of Mr. G.H. Harie, Senior Lecturer in Physics, and Mr. F.L. Ward, a former Senior Lecturer in Chemistry.

APPOINTMENT

The Council of the University appointed Dr. M.J. King, B.A., Ph.D.(Qld), currently an Associate Professor of Psychology at Macquarie University, to the newly created second Chair of Psychology.

Dr. King is a First Class Honours Graduate in Arts in the University of Queensland, where he also took his Certificate in Education and later proceeded to a Doctorate of Philosophy. He has had experience as a Primary and Secondary Teacher, as a Demonstrator in the University of Queensland, as a consultant Psychologist to the Australian Army and on the academic staffs of the Universities of Melbourne and Sydney and finally Macquarie University. He was Leverhulme Visiting Fellow at the University of Hong Kong in 1970.

Dr. King is expected to take up his appointment in December.

(Top:) Monash won the Oxford and Cambridge Cup for the Eights event at the Inter-Varsity rowing at Taree. The winning team is seen with the Mayor of Taree, Alderman Kennedy, and the Chancellor, Sir Alister McMullin.
(Bottom:) Crews arriving back on the bank of the Manning River.

The University was host to rowing and rugby teams from other universities for 1972 Inter-Varsity competitions. Newcastle and Macquarie are pictured playing above; N.S.W. and Sydney are seen below.

The **University Library** issued a record number of books to students and members of staff in 1971. The Assistant University Librarian (Reader Services), Miss J.E. Murray, reported that 96,930 books were taken out on loan in the year compared with 90,814 in 1970.

The university's **enrolment** increased this year, but not as significantly as in 1971. The student numbers are 3,758, an increase of five per cent over the enrolment for last year. Last year's tally was 3,571, an increase of 15 per cent compared with 1970.

Two eminent Historians accepted invitations to visit the University on 10th and 11th August. They are **Professor Manning Clark**, Professor of Australian History at the Australian National University, and **Professor Joel Hurstfield,** Astor Professor of English History at the University of London.

The University's No. 1 **Squash** team won the Newcastle and District Squash Racquets Autumn Competition. The team consists of Les Darcy, Terry McLennan, Cliff Hanna and John Pegg.

Mr. J.A. Lambert, formerly Senior Lecturer in Mathematics and Acting Director of the Computer Centre, was appointed Director of the Centre in April.

A small band of enthusiasts has begun to meet at the university regularly to bring to fruition their plans for the establishment of an **Alpine Lodge** on the Snowy Mountains. The National Parks and Wildlife Service is willing to lease land at Perisher Valley for use as a building site by a properly constituted club. The enthusiasts are members of staff and students who believe that it should be possible to organise in Newcastle a co-operative club with the objects of enabling members to ski, bushwalk, fish for trout and engage in other outdoor activities at Perisher.

Amendment of the University's Act created a second place on the Council for a member elected by undergraduates. As a result of an election last April, **Miss Barbara Callcott** (Engineering II) is serving as this member of the Council.

Biennial elections for membership of the Council were conducted in June and July, with five new members being elected. **Professor B.D.O. Anderson** was elected by Professors: **Mr. C.J.A. Cornelius** was elected by members of Convocation and **Dr. Patricia Kirton** and **Mr. B.T. Lotan** were elected by members of the Council themselves. **Mrs. Barbara Lord** was the only candidate forwarded by students and was declared elected.

Please advise

The Secretary, University of Newcastle, 2308, of –

* **Your change of address**
* **Names and addresses of other graduates who are not on the mailing list for "THE GAZETTE"**
* **Changes in marital status.**

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