CONFERRING OF DEGREES

FACULTIES

of

ARCHITECTURE,
ENGINEERING and MATHEMATICS

SATURDAY, 9th MAY, 1981
9.15 a.m.
ORDER OF PROCEEDINGS

The Procession will proceed to the dais, the Congregation standing.

The National Anthem

The Chancellor, Sir Bede Callaghan, C.B.E.

The Dean of the Faculty of Engineering, Professor A. W. Roberts, will present the candidates for admission to the honorary degree of Doctor of Engineering.

The Dean of the Faculty, Professor E. C. Parker, will present candidates for admission to degrees in the Faculty of Architecture.

The Dean of the Faculty, Professor A. W. Roberts, will present candidates for admission to degrees in the Faculty of Engineering and the name of the candidate for the award of Diploma in Industrial Engineering.

The Dean of the Faculty, Professor R. G. Keats, will present candidates for admission to degrees in the Faculty of Mathematics and the names of candidates for the award of the Diploma in Computer Science.

Professor R. H. Myers, C.B.E., Vice-Chancellor and Principal of the University of New South Wales will deliver the Occasional Address.

The Procession will retire, the Congregation standing.

Organist: Dr. Keith Muree-Allen
PROFESSOR RUPERT HORACE MYERS, C.B.E.

Presented for admission to the honorary degree of Doctor of Engineering by the Dean of the Faculty of Engineering, Professor A. W. Roberts

Mr. Chancellor,

It is indeed a privilege for me to present to you a distinguished Australian, Professor Rupert Horace Myers, Vice-Chancellor of The University of New South Wales who, in recognition of his academic leadership and contributions to Science, Technology and the community, the University of Newcastle has chosen to honour today by admitting him to the Honorary Degree of Doctor of Engineering. It is particularly appropriate that this award be made since, by admitting Professor Myers to an Honorary Degree of this University, he formally becomes a member of the University and in so doing reaffirms, in a symbolic way, the links between the two Universities, Newcastle and New South Wales. These links existed in a formal administrative sense when, in the years prior to autonomy in 1965, the then Newcastle University College was incorporated within The University of New South Wales.

Professor Myers was born in Melbourne in 1921 and educated at Melbourne High School and the University of Melbourne where he obtained the degrees of Bachelor of Science with first class honours, Master of Science and Doctor of Philosophy for studies in the field of Metallurgy. He was one of the first two students to graduate with a Ph.D. degree in Australia.

Following his earlier research positions, firstly as a Commonwealth Research Fellow at the University of Melbourne and secondly as Principal Research Officer, the Commonwealth Scientific and Industrial Research Organisation and the Atomic Energy Research Establishment, Harwell, United Kingdom, he received the appointment in 1952 as Foundation Professor of Metallurgy at The New South Wales University of Technology, later to become The University of New South Wales. He built up the School of Metallurgy of The University of New South Wales to a position of both national and international prominence. Professor Myers' research has been associated with basic studies of metal extraction, which led to the development of new methods for extracting tantalum, uranium, plutonium and cerium. His many achievements include the development of the processes which produced the first plutonium metal in the United Kingdom and the first pure uranium powder.

Professor Myers' distinguished academic and professional career is marked by his appointment in 1969 as Vice-Chancellor and Principal of The University of New South Wales. He has held this position since that date and will retire at the end of July this year. Prior positions held by him in the University include Dean of the Faculty of Applied Science and Pro-Vice-Chancellor. He also served as Chairman of the Australian Vice-Chancellors' Committee from 1977 to 1979.

Besides his University responsibilities, Professor Myers has been active in many other spheres. These include part-time Chairman of the New South Wales State Pollution Control Commission, a member of the National Energy Advisory Committee, a member of the Australian Manufacturing Council, a member of the Planning Advisory Committee of the Australian Railways Research and Development Organisation, and a member of the Sydney Opera House Trust. He was also the Chairman of the Committee of Inquiry into Technological Change in Australia. He is a member of the Board of Directors of the Prince of Wales and Prince Henry Hospitals.

He is Chairman of the New South Wales Regional Committee, a Director of the Winston Churchill Memorial Trust and a member of the Council of the Scout Association of Australia (N.S.W.).

Professor Myers is distinguished by the several awards he has received. In 1976 he was appointed Commander of the Order of the British Empire. He is a Fellow of the Australian Academy of Technology Sciences. He has received the Honorary Degrees of Doctor of Laws (L.L.D.) from the University of Strathclyde and Doctor of Science (D.Sc.) from the University of Wollongong.

Professor Myers is a Chartered Engineer, his professional affiliations and activities including a Fellow of the Institution of Metallurgists, the Royal Australian Chemical Institute and the Australian Institute of Management. He is a member of the Australasian Institute of Mining and Metallurgy and a member and Past President of the Australasian Institute of Metals.

He is a Royal Australian Chemical Institute Grimwade Prizeman and a Florence Taylor Medallist of the Australasian Institute of Metals.

Clearly Professor Myers is an Australian with a record of outstanding achievement and contributions in all aspects of academic, professional and public life. It is indeed an honour for the University of Newcastle that he accepted the invitation to receive at this graduation ceremony the Honorary Degree of Doctor of Engineering. In so doing his name becomes linked with four other distinguished persons, namely Brigadier James Montagu Christian Corlette, the Right Honourable Lord Casey, Sir Ian Munro McLennan and Professor Jack William Roderick, who received the Honorary Degree of Doctor of Engineering during the life of this University.
Mr. Chancellor, I have the honour of presenting to you for admission to the Honorary Degree of Doctor of Engineering, Rupert Horace Myers, Commander of the Order of the British Empire, Bachelor of Science, Master of Science and Doctor of Philosophy in the University of Melbourne, Honorary Doctor of Laws, the University of Strathclyde and Honorary Doctor of Science, the University of Wollongong.

CONFERRING OF DEGREES
FACULTY OF ARCHITECTURE

Presented by the Dean of the Faculty of Architecture, Professor E. C. Parker

Bachelor of Science (Architecture)
Heather Marion Dickinson
Gregory Mark Hill
Roberto Davide Paulo Kohn Gansl
Christopher Charles Legge-Wilkinson
Peter Moysidis
Peter Wayne Shaddock — with Merit

Bachelor of Architecture
Thomas Kennard Acland
Geoffrey Raymond Holmes
Colin Robert Johns
Judith Marion Renwick
David Ross
Christopher Baker (Honours Class II)
Gordon James Beath (Honours Class II)
Peter Bernard Burford (Honours Class II)
Bernard James Collins (Honours Class II)
William Arthur Dann (Honours Class II)
Swee Choo Lau (Honours Class II)
William Anthony Grossmann (Honours Class I)
John Kendall Hopkins (Honours Class I)
Chua Koon Hean (Honours Class I and University Medal)
Nicola Odette Malnic (Honours Class I and University Medal)
FACULTY OF ENGINEERING

Presented by the Dean of the Faculty of Engineering, Professor A. W. Roberts

Bachelor of Science (Engineering)
Department of Mechanical Engineering
Wayne Bradley Tagget

Bachelor of Science (Metallurgy)
Robert Crosby George Cooksey
Iain William Farr
David Wayne Lamotte
Kenneth Allan Nicholl
Ian Sydney Partland
David John Scott
David James Trimble
John Woolfrey

Bachelor of Engineering
Department of Chemical Engineering
Arthur Richard Anderson
Warren George Brooks
Robert Kevin Jennar
Ian Robert Haines (Honours Class II, Division II)
Muchineripi Webster Fidelis Chigwedere (Honours Class II, Division I)

Department of Civil Engineering and Surveying
David Allen Ashcroft
Robert Broadfoot
Alexander Rex Cameron
Wayne Earle Cone
Glenn Davies
Graeme William Hawes
Warwick John Irwin
Peter James Johnstone
Stephen Russell Jones
Inderbir Singh Nanra
Gregory Martin Sainsbury
Gregory Charles Scott
Fransiscus Janto Surjadiredja
Gregory Phillip Taylor
Raymond John Balks (Honours Class II, Division II)
Peter Gordon Leitch (Honours Class II, Division II)
John William Callaghan (Honours Class II, Division I)
John Mervyn McLuckie (Honours Class II, Division I)
So Kong On (Honours Class II, Division I)
Glenn Philip Walton (Honours Class II, Division I)
Allan David McKinnon (Honours Class I)
John Morgan Nichols (Honours Class I and University Medal)
Garry Raymond Willgoose (Honours Class I and University Medal)

Department of Electrical and Computer Engineering
Computer Engineering
Peter Frederick Summons
Electrical Engineering
Christopher Charles Boswell
Joseph Ross Broadbent
Nicholas Dentiuk
Grant Anthony Gamage
Bruce Duncan Gow
Stephen Paul Hallinan
Christopher Colin Hirst
Claude Harold Hope
Denis David Robertson
Suryadi Santoso
Maxwell Maurice Smith
Gerard Francis Cusick (Honours Class II, Division II)
Gary Raymond Elsley (Honours Class II, Division II)
Christopher John Gunn (Honours Class II, Division II)
Robert James Withers (Honours Class II, Division II)
Christopher James Worrad (Honours Class II, Division II)
Derek Michael Bull (Honours Class II, Division I)
Gary Victor Redman (Honours Class II, Division I)
Keith Geoffrey Yates (Honours Class II, Division I)
Alan Robert Broadfoot (Honours Class I)
John Garroway (Honours Class I)
David Richmond Griffiths (Honours Class I)
David Leslie Neville (Honours Class I)
Alan Gordon Steele (Honours Class I)
Lee Kheng Cheok (Honours Class I and University Medal)

Department of Mechanical Engineering

Industrial Engineering
Tan Chye Boon Peter, B.Com. (Honours Class II, Division I)
Wayne Robert Watson (Honours Class II, Division I)
Chia Sek Yue, B.Com. (Honours Class I)

Mechanical Engineering
Ian Ross Attwood
David Kevin Fowler
Kim Francis
Colin Glen Mudge
Timothy James O’Hearn
Peter James Wallace
Bradley William Weeks
Stephen Leslie Weeks
Hernanto Wibowo
Graham Colin Ainsworth (Honours Class II, Division II)
Murray Kenneth Graham (Honours Class II, Division II)
Shane Keys (Honours Class II, Division II)
Anthony Philip Logan (Honours Class II, Division II)
Long Say Jee (Honours Class II, Division II)
Graham John Beverley (Honours Class II, Division I)
Graeme Keith Stark (Honours Class II, Division I)

Bachelor of Metallurgy
Peter James Francis O’Connell (Honours Class II, Division I)
Peter John Rees (Honours Class I)

Bachelor of Surveying
Mark Andrew Scotland

Kim Raymond Fulton (Honours Class II, Division II)
Geoffrey Allan Golledge (Honours Class II, Division II)
William Sarkis (Honours Class II, Division II)
Bruce Anthony King (Honours Class II, Division I)
Anthony Vittorio Spagnolo (Honours Class II, Division I)
York Bin Aw (Honours Class I)
Master of Engineering Science
Department of Civil Engineering and Surveying
Ross Allan Frank Cooke, B.E. (N.S.W. Inst. Tech.)

Department of Mechanical Engineering
Stephen George Crossingham, B.Sc.(Eng)
Christopher Gordon Pettett, B.E.

Master of Engineering
Department of Chemical Engineering
Peter Grant Cooper, B.E.
Thesis: “Spherical Agglomeration of a Zinc-lead Scrubber Dust”
Gregory Brian Smith, B.E.
Thesis: “Primary Breakage in Impact Crushers”

Department of Civil Engineering and Surveying
Frank Bullen, B.Sc.(Met), B.E.
Thesis: “Use of Steelmaking and Blast Furnace Slags in Road Base Construction”
Francis William Down, B.E.(Sydney)
Thesis: “The Use of Blast Furnace Slag as a Cement”

Doctor of Philosophy
Department of Chemical Engineering
Louis James Wibberley, B.Met.
Thesis: “Alkali Ash Reactions and Deposit Formation in Pulverised Coal-Fired Boilers”

Department of Civil Engineering and Surveying
Ian Brent Joliffe, B.E.
Thesis: “Unsteady free surface flood wave movement in pipe networks”

Department of Electrical and Computer Engineering
Rajendra Kumar,
M.Tech.(Indian Institute of Technology, Kanpur)
Thesis: “Parameter Update Recursions for Adaptive Identification Prediction and Control”

Department of Mechanical Engineering
Barry John Hill,
B.Sc.(Eng.), M.Eng.Sc.
Thesis: “A Dynamic Analysis of a Railway Carriage/Bogie Suspension System”

Department of Metallurgy
Joo Wan Lee,
B.Met.Eng.(Seoul National)
Thesis: “Factors Affecting the Micromorphology of Sintered WC-Co Compacts”
Dinakar Babu Rayaprolu,
B.Sc., M.E.(Indian Institute of Science, Bangalor)
Thesis: “The Ostwald Ripening of Sulphide Inclusions in Steels: an Analysis of Measurement Techniques and Their Errors”
Doctor of Science
Department of Metallurgy
Charles Brian Belcher, M.Sc.(New South Wales)
For original contributions of outstanding merit
to the analysis and characterization of economic materials

AWARD OF DIPLOMA
Diploma in Industrial Engineering
Alan Ross, H.N.C.(Mech) (United Kingdom)
Bachelor of Mathematics

Susan Mary Arkell
Lyndall Anne Arms
Stephen John Atkins
Ralph Noel Brown
Diane Elizabeth Cook
Michael Anthony Curran
Karen Narelle Davis
Howard John Elliott
Peter Raymond Ernst
Alan Leslie Frazer
Elke Eleanor Fries
Norman Ernest Gaywood
Brian Keith Heuston
Frances Anne Hughes
Graeme Max Jensz
Julie Anne Jurd
David Karl Karlson
Peter Gordon Leitch
William Robertson Mason
Anne-Marie Murphy
James Gough Murphy
Rosemary Jayne Mutton
Leone Penman
Kay Richards
Sue-Anne Robinson
Paul Anthony Schembri
Ian Alexander Stockings, B.Com.
David Keith Stringfellow
Alice Maree Styan
Joanne Lee Thomas
Karen Jean Thorpe
Wayne Michael Toohey
Ian Douglas Turley

Bachelor of Mathematics (Continued)

Francis Patrick Crawford
(Mathematics/Physics — Honours Class II, Division II)
Christopher Russell Manning (Honours Class II, Division II)
William Grabham (Honours Class II, Division I)
Malcolm Jon Roberts (Honours Class II, Division I)
Timothy David Lambert (Honours Class I)
Donald Kenneth Skilton (Honours Class I and University Medal)
Master of Mathematics

Eileen Joy Doyle, B.Math.
Thesis: "Mathematical Evaluation of some Theoretical Transportation Schemes"

Thesis: "Construction for Balanced, Incomplete Block Designs"

Doctor of Philosophy

Alan Hartman, B.Sc.(Monash), Dip.Ed.(State College, Victoria)
Thesis: "Construction and Resolution of Quadruple Systems"

AWARD OF DIPLOMAS

Diploma in Computer Science

Neil Dunstan, B.Math.
Douglas Lynch, B.E.
Erkki Juhani Savolainen, B.Nat.Sc.(Turku, Finland)
PRIZES

Faculty of Architecture
Board of Architects of New South Wales Prize
Chua Koon Hean

Faculty of Engineering
Institution of Engineers, Australia 
Newcastle Division Prize
Lee Kheng Cheok

Department of Chemical Engineering
The Broken Hill Proprietary Company
Limited Prize in Chemical Engineering
Peter Steigler
Australasian Corrosion Association 
(Newcastle Branch) Prize
Trevor David Wallace
Institute of Energy (Australian 
Membership) Newcastle Group Prize
Trevor David Wallace
Newcastle Chemical Engineering Group Prize
Webster Muchineripi Fidelis Chigwedere
Institution of Chemical Engineers 
(N.S.W. Group) Prize
Webster Muchineripi Fidelis Chigwedere

Department of Civil Engineering and Surveying
The Broken Hill Proprietary Company
Limited Prize in Civil Engineering
Gregory James Wright
B.B.R. Australia Pty. Ltd. Prize
John Morgan Nichols
Hunter District Water Board 
Gold Medallion
Garry Raymond Willgoose 
(John Morgan Nichols
James Hardie Water Resources Engineering Prize
(Trevor David Wallace
Institution of Surveyors Australia, 
Hunter-Manning Group Prize 
in Surveying
York bin Au
The Ercon Australia Prize in Geomechanics
Allan David McKinnon 
(John Morgan Nichols

Department of Electrical and Computer Engineering
The Broken Hill Proprietary Company
Limited Prize in Electrical Engineering
Richard Hume Middleton

Department of Mechanical Engineering
The Broken Hill Proprietary Company
Limited Prize in Mechanical Engineering
Philip Douglas Clausen
The Ernest J. Egan Prize in Mechanical Engineering
Graeme Keith Stark
The Les Gibbs Prize for Creative Design in Engineering I
Francis Michael Cunningham
The Morison Prize in Mechanical Engineering: 
Junior
Philip Douglas Clausen
Senior
Graeme Keith Stark
The W. E. Clegg Memorial Prize in Engineering
Chia Sek Yue

Department of Metallurgy
Australian Institute of Metals 
Prize
Shared
Don Gartsky
(Australia)
Ross Nicol
William Allan Scotting
Peter James Francis O'Connell
Australasian Corrosion Association 
(Newcastle Branch) Prize
Peter James Francis O'Connell
The Australasian Institute of Mining 
and Metallurgy (Newcastle 
Womens Auxiliary) Prize
Andrew Thomas Styan
The Broken Hill Proprietary Company Limited Prize
Michael Eric Tyler
Daniel Clark Prize
Andrew Thomas Styan
The Ernest Guy Smith Memorial Medal
Peter John Rees
Faculty of Mathematics

The Mortimer Temple Prize in Mathematics I
   John Antony Lucas
The Second Year Mathematics Prize
   Sally Anna Galbraith
The Third Year Mathematics Prize
   Lindsay Kleeman
The Australian Federation of University Women — N.S.W. (Hunter Valley Branch) Prize in Mathematics III
   Anne-Marie Murphy
The Statistical Society of Australia Prize in Statistics III
   Cheryl Maree Pearce
Digital Prize in:
   Computer Science II
   Roger Keith Onslow
   Computer Science III
   James Gough Murphy
   Statistics and Computing
   John Antony Lucas