



THE UNIVERSITY OF
NEW SOUTH WALES

CONFERRING OF DEGREES

Kensington • Friday 19 April 1985 • 2.30 pm

FACULTY OF ENGINEERING FIRST SECTION

Arms of
THE UNIVERSITY OF
NEW SOUTH WALES

Granted by the College
of Heralds, London

3 March 1952

HERALDIC DESCRIPTION
OF ARMS

Argent on a Cross Gules a Lion passant guardant between four Mulletts of eight points. Or a Chief Sable charged with an open Book proper thereon the word SCIENTIA in letters also Sable.

The lion and the four stars of the Southern Cross on the Cross of St George have reference to the State of New South Wales which brought the University into being; the open book with SCIENTIA across its page reminds us of its original purpose. Beneath the shield is the motto "Manu et Mente", which is the motto of the Sydney Technical College, from which the University has developed. The motto is not an integral part of the Grant of Arms and could be changed at will; but it was the opinion of the University Council that the relationship with the parent institution should in some way be recorded.



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All degrees and diplomas in Aeronautical Engineering, Electrical Engineering, Industrial Engineering, Mechanical Engineering, Naval Architecture, Nuclear Engineering and Safety Science.



THE UNIVERSITY MACE

The Mace is a symbol of the dignity and authority of the University. Originally it was a weapon capable of breaking through the strongest armour, and, according to the *Encyclopaedia Britannica*, was carried in battle by mediaeval bishops so as to conform to the canonical rule that forbade priests to shed blood. Later, maces began to have a ceremonial function, though they were still intended to provide protection, usually to the king's person, and were carried by sergeants-at-arms.

The University's Mace is of simple form, constructed of stainless steel and embellished with silver. The head, of sixteen satin-finished stainless steel ribs, is surmounted with a silver waratah, the floral emblem of the State of New South Wales, and on its horizontal bar are mounted four silver shields, two engraved with the arms of the University and two with the arms of the State. The inner core has a scarlet velvet lining.

The shaft is of eumung, a New South Wales timber, dark in colour, and terminates in a stainless steel tail.

The Mace was presented to the University on 6 December 1962 by the Broken Hill Proprietary Company Ltd.

ORDER OF PROCEEDINGS

The Procession will proceed to the dais, the Congregation standing.
The Congregation is requested to remain standing until the
Chancellor is seated, after the playing of *Advance Australia Fair*.

The Hon. Mr Justice Samuels, MA Oxf., Chancellor.

Mr J. M. Gannon, ASTC, ARACI, Registrar.

Professor N. L. Svensson, MMechE PhD Melb., CEng., FIEAust,
MIMechE, MACPSM, Dean of the Faculty of Engineering, will
present candidates to the Chancellor.

Commodore D. J. McKeegan, BSc Syd., MSc PhD N.S.W., Visiting
Fellow, The Australian Defence Force Academy, will deliver the
Occasional Address.

Professor R. M. Golding, MSc Auck., PhD Camb., FNZIC, FInstP,
FRACI, FRSA, Pro-Vice-Chancellor.

The Procession will retire, the Congregation standing.

Recorded organ music performed by Dr Howard Pollard.

CONFERRING OF DEGREES

FACULTY OF ENGINEERING

PRESENTED BY PROFESSOR N. L. SVENSSON
DEAN OF THE FACULTY

BACHELOR OF SCIENCE (ENGINEERING) BSc(Eng)

AERONAUTICAL ENGINEERING

Neil Thomas Alexander

ELECTRICAL ENGINEERING

Stephen Fred Wrigley

MECHANICAL ENGINEERING

Richard Charles Burnand
Josip Dijanosic
Ross Gregory Lippiatt
Harry Miliatis

With Merit

Dennis Alexander Colusso
Owen Keith Wiseman

BACHELOR OF ENGINEERING BE

AERONAUTICAL ENGINEERING

Ainullotfi Abdul Latif
Kenneth Lawrence Daggard
Malcolm Robert Hardy
Widjojo Hardjo Prakoso
Slavko Steven Vidakovic

Honours Class 2, Division 2

Alice Aghajanzad Aghajanian
Willem Arthur Dekkers
Murray Graham Stimson
Graham Alan Thomson

Honours Class 2, Division 1

Melvyn Anthony Schmidt

Honours Class 1

David Wing-Chiu Lui
Adam John Pearsall

ELECTRICAL ENGINEERING

Scott Anthony Allbutt
Sandra Joy Allitt
Peter John Briede
Sue-Ann Olga Burton
Alexander James Campbell-Smith
Rodolfo Frank Caristo
Eddie Mun Hoe Chan
Kwong-Man Chan, BSc
Lien Chew
Clarence Sie Yii Chieng
Wei Yu Chong
Wayne Paul Connolly

Ross Allan Denny
Scott James Druery
Justin George Fennel
George Luis Garcia
William James Glenn
Robert Paul Graham
Brenton Hamilton
Garry James Hargreaves
Michael Hauptman
David John Hayward
Chong Yoon Hew
Imre Hirka
Raymond Tat Ming Ho
Kiet Nguyen Jenkins
Mark Peter Koch
Jason Yiu Kwong Lai
Gien Shiin Lau
Clayton Bruce Lovegrove
Kerry Jan Lunney
Christopher Grahame Maxworthy,
BA
Anne McDonald
Gregory John McKinnon
Robert Geoffrey Morgan
Bill Papadatos
Enrico Frank Pecora
Anh Tuan Pham
Gunilla Elizabeth Ranson
Timothy Nigel William Roake
John Nelson Sarzano
Yuk Sing Augustine Siow
Keith Macpherson Smith
Stephen Peter Sneesby
Andre Soussa
Shari Louise Soutberg
Geoffrey Allan Stevenson
Robert Andrew Studley
Wah Meng Tan
Guy Alexander Templeton
Liane Unewisse
Peter Terence Wallace
Sie Hui Wong
Brett Worrall
Paul Anthony Young
Park Wah Yuen
Wasili Michael Zyznik

Honours Class 2, Division 2

Paul Edy Braico
Darren Ross Burrowes
Hon Chai Chan, BSc
Chee Mun Chong, BSc
Shaun Joseph Cunningham
Ronald Christopher Shaw Fox
Craig Lloyd Goulden
Gilbert Clovis Haddad
Paul Graham Errol Hassall, BSc
Roger Holt
Peter Kepreotes
Wai Tong Joseph Law
Eddie Man Sum Lee, BSc
Kam Hong Ma, BSc
Heng Woh Wong
Eng Hoe Yeoh

Honours Class 2, Division 1

Ricky Sai Cheong Cheung, BSc
Marie Lakmini Fonseka, BSc
Choon Joo Gan
Matthew Joseph Gani
Malcolm Vaughan Harrington
Darryl Harrison
Claude Raymond Joseph, BSc
Peet Erik Kerjan
Sek Koon Leong
Shing Chi Ling
Pak Fai Luk, BSc
Sandra Robyn Lundie
Chun Ho Ma
Michael John McBride
Po Cheung Ng
Seng Chueng Ng
Robert Philip Page
Robert Charles Ticehurst
Toh Tueng Wong
Chun Cheong Yip
Hung-Leung Yu, BSc

Honours Class 1

Michael John Bielinski, BSc
Michael Bruce Dempsey

Andrew Graham Dempster
Van Phuoc Do
Cameron Mark Charles Gill
Chi Ming Lam
Chin Kuan Leo
Jim Siu Jimmy Li
Say Cheang Lim
Kam Wah Lo, BSc
David Patrick Mahoney, BSc
Benjamin Chanh Dao Ngo
Kenneth Joseph West

**Honours Class 1 and
University Medal**

Murray Owen Andrews

INDUSTRIAL ENGINEERING

Simon Natan Barber
Kai Chung Cheung
David Stuart Holt
Irsawan Jahja
Stuart McKay
Alexander Bruce Stevenson
Peter Zeglis
Ishmail Zomaya

Honours Class 2, Division 2

Thye Foong Foong
Roland Eng Seng Ng

Honours Class 2, Division 1

David Solomon Shteinman

MECHANICAL ENGINEERING

Peter Howard Beins
Alastair Lawrence Powell Boyd
Mark Butters
Michael John Collins
Paul Ruthven Dennison
David Andrew Fowler
Peter Waclaw Godlewski
Christopher Mark Gougeon
Michael Benjamin Herrman
Richard Frank Kranz
Roland Tee Mei Lau
Lorenzo Lauriola
Eric Karl Parts
Elvin John Robb
Harlem Suhanic
Christopher Sutherland
David Walter Toland
Ross Erskine Torrington
Suchat Wannasoupol

Geoffrey George Campbell
Nghia Do
Brendan Scott Graham
Toshiya Hasegawa
Ramin Marzbani
Christopher John Raymond
David Paul Sippel
Christopher Donald Woolley
Chau Ming Yung

NAVAL ARCHITECTURE

Craig John Boulton
Thomas Lee Clough
Raymond Anthony Duggan
Gary Oskar Goetz
Timothy William Hall
Nicholas Jerome Reed

Honours Class 2, Division 2

Chee Song Cheng
James William Hurnall
Kuang Chao Lee
Lay Mee Lee
David Nguyen
Michael Alexander Reid
Peter James Russell-Smith

Honours Class 2, Division 2

Pui-Lam Richard Chang
Laurence John David Mayer

Honours Class 2, Division 1

Laszlo Stephen Jarosek
Peter James Marshall
Christopher Alexander Morrow
Christopher Ross Murray
Russell Noel Peterson
Leo Herman van Den Heuvel

Honours Class 1

Bertil Axel Brandin

GRADUATE DIPLOMA GradDip

SAFETY SCIENCE

Joseph John Ignacz
Trevor John Mayhew
Grant Leslie Poole

MASTER OF ENGINEERING ME

ELECTRICAL ENGINEERING AND COMPUTER SCIENCE

Ara Samouelian, BE Syd.

MECHANICAL AND INDUSTRIAL ENGINEERING

Jie Wen Shen, Dip *Nanjing Polytech Inst.*

MASTER OF ENGINEERING SCIENCE MEngSc

David Cecil Altman, BA *Melb.*
Brian Thomas Bulliman, BA *Macq.*, MBiomedE
Denis Leslie Daly, BE *N.S.W.I.T.*
Philip John Drummond, BSc
Dun Rui Hong, Dip *Fuzhou*
Rodney John Keable, MCom
Yew Man Lee, BE
Tri Hung Nhieu, BSE, *N.U. Cheng Kung*
Gumpon Prateepchaikul, BS *Songkla*
Melvin Trieu-Hung Quach, BE *N.S.W.*, DipBdgSc Syd.
Neil William Thomson, BE
Quoc Vinh Tran, BE *Cant.*
Asko Tauno Vilenius, BE

MASTER OF SAFETY SCIENCE MSafetySc

Brian Noel Emerson, GradDip *Ballarat C.A.E.*

DOCTOR OF PHILOSOPHY PhD

MECHANICAL AND INDUSTRIAL ENGINEERING

Dung Le, BE

Thesis: Numerical methods for finding zeros and extrema of functions.

Benezeeri Musana Manyindo, BSc(Eng) *Mak.*

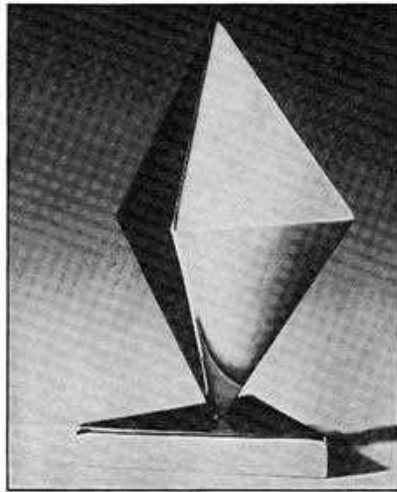
Thesis: An experimental and theoretical investigation of forces and chip geometry as a basis of machinability assessment when machining various materials.

NUCLEAR ENGINEERING

David Raymond Hamilton Beattie, BSc BE *Syd.* MEngSc

Thesis: An extension of single phase flow turbulent pipe flow concepts to two-phase flow.

THE UNIVERSITY OF NEW SOUTH WALES ALUMNI ASSOCIATION



ALUMNI AWARD FOR ACHIEVEMENT

Through this award the Alumni Association seeks to encourage and reward community involvement by students of the University. An award to a graduand can be made for achievement resulting in an improvement in the quality of life in a community — the University community, a community within the University, or the community generally. Up to three awards may be made each year.

The 1985 recipients are:

Lynette Marie Trent, Faculty of Professional Studies, for her outstanding contribution to the Unit of Child Studies in the School of Education in its efforts to disseminate information about children and their development, so adding to their quality of life through better parenting and more effective professional work with them. Her efforts were notably consistent and reliable and their results are expected to be long-lasting. Whilst displaying considerable initiative in broadening the range and increasing the efficiency of the Unit's contact with parents and child work professionals, her talents were applied in a true spirit of service to others.

Peter Xavier Thompson, Australian Graduate School of Management, for having enhanced community perceptions of the interacting social, environmental and economic issues affecting decisions on resource management and conservation, and also for having raised the quality of informed debate on such matters. This was accomplished as an effective leader of the campaign to save the Franklin River, Tasmania, as a publicist for conservation causes, and through his writings and work in the media. He has been a strong advocate of the use of rational discussion and orderly processes to arrive at solutions for environmental issues. In this University he made a valuable contribution to his programs in the Australian Graduate School of Management.

THE HISTORY AND SIGNIFICANCE OF ACADEMIC DRESS

The history of academic dress reaches far back into the early days of the oldest universities. A statute of 1321 required that all 'Doctors, Licentiates, and Bachelors' of the University of Coimbra wear gowns. It is still a vexed question whether academic dress finds its sources chiefly in ecclesiastical or in civilian dress. Gowns may have been counted necessary for warmth in the unheated buildings frequented by mediaeval scholars, and the hood currently in use is the remnant of a garment, also a device against the cold, which could be pulled up over the head and kept in position with the tail wound around the throat. The type of academic headgear most commonly worn by graduates today is the mortar-board cap, also called the trencher cap, which dates back to the seventeenth century. It is also the custom of many universities for Doctors to be allowed to wear a distinctive type of headgear, either a round velvet bonnet or a black velvet mortar-board, with the full dress gown.

As universities developed throughout the Commonwealth countries they mostly prescribed academic costume based on that established for the members of Oxford and Cambridge Universities, where the Chancellor and often other senior members wear a distinctive official gown and hat. Graduates are identified by the wearing of a gown and hood specially prescribed for each degree and undergraduate students wear a distinctive gown and hat.

Notwithstanding the importance of the Oxford and Cambridge tradition of the gown and cap, it is the wearing of a hood by the graduate to indicate his or her degree which is the principal feature of the academic costume code.

The tradition of wearing academic dress continues in universities around the world and it is customary that on ceremonial occasions such as the Conferring of Degrees Ceremony today that the distinctive official costume of each person concerned be worn.

UNIVERSITY MEDAL

The University Medal is a recognition by the University of outstanding academic achievement at the undergraduate level.

The bronze medal carries on its face an engraving of the Arms of the University and on the reverse, within a wreath of laurels, is engraved the name of the recipient.

HASSALL, Paul Graham Errol
BE
HONOURS CLASS 2 DIVISION 2

ROW

E

SEAT

17