



THE UNIVERSITY OF  
NEW SOUTH WALES

# CONFERRING OF DEGREES

Kensington • Tuesday 22 April 1986 • 10.30 am

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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### FACULTY OF ENGINEERING FIRST SECTION

All degrees and diplomas in Aeronautical Engineering, Biomedical Engineering, Electrical Engineering, Human Communication, Industrial Engineering, Mechanical Engineering, Naval Architecture, Nuclear Engineering, Remote Sensing, Surveying 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

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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.

Mr R. J. Kirby, AO, BE Syd., Deputy Chairman, James N Kirby Group  
of Companies, will deliver the Occasional Address.

Professor M. Chaikin, OBE, BSc PhD Leeds, DipEng L.I.T.(Shanghai),  
CText, FTI, FTS, Pro-Vice-Chancellor.

The Procession will retire, the Congregation standing.

# CONFERRING OF DEGREES

## FACULTY OF ENGINEERING

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

### **BACHELOR OF SCIENCE (ENGINEERING) BSc(Eng) AERONAUTICAL ENGINEERING**

Hugh Gordon Smith

### **Honours Class 2, Division 2**

Craig Leslie Butler  
Peter McDonald Higgins  
George Mylonas  
Dieu Hoa Tan

### **ELECTRICAL ENGINEERING**

David Richard Smith

### **Honours Class 1**

Bruce Cheang  
Mark Siebrand Petrusma

### **MECHANICAL ENGINEERING**

David John Wilson

### **ELECTRICAL ENGINEERING**

Campbell Ker Balzer  
Peter Graeme Bell  
Michael Bruce Betts  
Peter Samuel Brook  
Ewan Gordon Browne  
John Andrew Cameron  
Duncan Keith Campbell  
Alejandro Guillermo Campos  
Edward John Castro  
Eric Tinhung Chan  
Trevor Chau  
Kay Boon Chia, BSc  
Koon Wooi Chin  
Emmanuel Charles Cilia  
Michael William Cleary  
Anthony John Cowle  
Paul Joffre Cowle

### **BACHELOR OF ENGINEERING BE AERONAUTICAL ENGINEERING**

Adnan Diab  
James Giacomo Ferretti  
Leh Tiong Khoo  
Paul Geert Hendricus Ten Boom

Anthony Gerard Craner  
 Mohamed Diab, BSc  
 Robert Anthony Downing  
 Craig John Watson Duncan  
 Philip Gerard Friend  
 Samuel Ghali  
 Andrew Ainsworth Grant  
 Sin Chuan Ho  
 Hugh Ronald Kellow  
 Manoj Keswani  
 Ladislav Kviz  
 Bill Ming Sing Lam  
 Carol Woan Fang Lau  
 Chee Khoon Lee  
 Kar Gay Lim  
 Kian Khoon Lim, BSc  
 Siu Fong Ling  
 Ivan Mishchuk  
 Anthony Francis Murtagh  
 Eng Hong Ooi  
 Mark Michael Pace  
 Con Prassopoulos  
 John Thomas Quinn  
 Zelko Rezo  
 Nick Anthony Sacley  
 Robert Ted Smith  
 Mark Soo  
 Andrew Ivor Swan  
 Navid Tamaddoni  
 Kevin Tai Wing Tang  
 Jim Peter Thomas  
 Paul Mervyn Tilly  
 Boon Meng Toh  
 Anthony Tong  
 John Kenneth Tyson  
 Michael James Uzzell  
 Paul Willma, BA  
 Alan See Meng Wong, BSc  
 Ik Lee Wong  
 Nang Ling Patricia Wong  
 Yasmin Cheung Ching Wu  
 Mohd Nasir Yahya

#### **Honours Class 2, Division 2**

Stephen Barrass  
 Simon Paul Barrow

Chor Beng Choo  
 Abel Amorim De Araujo  
 Anthony Louis Grech  
 Frank Michael Maly  
 John Anthony Menegus  
 Bruce James Miller  
 Cheung Kwan Eric Ng  
 Sai Hong Ong  
 Yen See Ong  
 Beng Kwong Ooi  
 Myron Anthony Stein  
 Philip Ross Swadling, BSc  
 Su Kee Teo  
 Mark Helmut Unewisse, BSc  
 Gangatharan Varatharajan  
 Kian Lon Wong

#### **Honours Class 2, Division 1**

Gregory John Aitkin  
 Geoffrey Raymond Brand  
 Paula Suzanne Curtis  
 Angelo Di Paola  
 Mario Frapiccini  
 Noel Phillip Gordon, BSc  
 Budi Hamidjaja  
 Allan Craig Harvey  
 David Stuart James  
 John Charles Lock  
 Paul David McCaughey  
 George Neophytou  
 Paul McKay Peters  
 Raymond Salmon  
 Raden Fofa Sariaatmadja  
 Chin Thor Yew  
 Boon Khiak Yong

#### **Honours Class 1**

Stuart Alexander Barr  
 Andrew Maxamillian Bartos  
 Gregory John Cowle, BSc  
 Teik Hoe Ghee  
 Ian Richard Gibson, BSc  
 Stephen John Gorman

Susan Angela Jimenez, BSc  
Christopher John Lukey, BSc  
Brian John Murphy  
John Carl Pollaers, BSc  
Van Toan Thai  
Brendan Patrick Walsh

#### INDUSTRIAL ENGINEERING

Joseph Genua  
Subagio Wirawan Kusumanegara  
Emanuel Hillel Szumer  
Stephen Mark Weissberger  
Chris Wong  
Eng Song Yeo

#### Honours Class 2, Division 2

Auron Bradley Adler

#### MECHANICAL ENGINEERING

Abdul Wahab Saaroni Abdul Aziz  
Damien Nicholas Allan  
Nicholas Norman Berlyn  
Andrew John Black  
Fadzil Bin Ismail  
Michael Dagher  
Zuhier Ridwan Elhassan  
Timothy William Francombe  
Peter Anthony Hendriks  
Hendra Mulyawan Homarwidjaja  
Silvano Korva  
David Martin Leonard  
Kok Leong Lim  
Kui Muk Ling  
Greg Morozoff  
Andrew Arthur Newberry  
Minh Chau Pham  
Ian Bruce Platt

Mark Paul Potocki  
Tom Raptis  
Mark Richard Scott  
John Solari  
Mohamed Soliman  
Wayne Kenneth Steele  
John Hugh Stevenson  
Frank Michael Strmecki  
Didi Satria Subawa  
Natta Talalak  
Greg Umadhay  
David Upton  
Hee Lok Wong

#### Honours Class 2, Division 2

Quan Brown  
Fabian Augusto Colussi  
Constantine Giannoulis  
Sungjoong Kim  
William Logan Lee  
Alexander Robert McIntyre  
Hung Huu Nguyen  
Quoc Su Nguyen  
Richard Anthony Peterson  
Adrian Scott Ridgley  
Phillip David Slater  
Peter John Wells

#### Honours Class 2, Division 1

David John Caleo  
Robert Louis Ghinzel  
Chiew Seng Goh  
Panagiota Kalaremas  
David Wayne Moore  
Hartono Sutanto

#### Honours Class 1

Mark Jackson Alder, BSc  
Henry Kunafi  
Angelo Anthony Muratore  
Krishnakumar Pillai



## **NAVAL ARCHITECTURE**

Phillip Warren Brown  
Garry Duck  
Richard Gordon Whitaker  
Jeffrey Gordon Williams

John Paul Newbury  
Christopher Robert Poulos  
Mark Anthony Joseph Rolls  
John Brett Stephen  
David John Tremain  
Robert Van Der Zypen  
Ross Robert Thomas Wales

## **Honours Class 2, Division 2**

Mark Simon Bayly

## **Honours Class 2, Division 1**

Gregory Lester Cox

## **Honours Class 2, Division 2**

Charles Fransen  
Robert Andrew Harries  
Nannette Johanna Michaela  
Helder  
Charles Robert Higgs  
Timothy James Ramsay Mollison  
Tasy Moraitis  
Gregory Paul Paten  
Brian Geoffrey Spier

## **BACHELOR OF SURVEYING BSurv**

Graham Charles Bailey  
Andrew Campbell Deck  
Simon Robertson Finniecome  
Mitchel Bernard Hanlon  
James Alexander Hook  
George Hui Wu Law  
Nicholas Simon Lemon

## **Honours Class 2, Division 1**

Graham Alan Beasley  
Hui Urg Kueh  
Patricia Sin

## **Honours Class 1**

Chris David Dorian

## **GRADUATE DIPLOMA GradDip ENGINEERING DEVELOPMENTS**

King Morgan Chan, BS N.U. Cheng Kung

## **SAFETY SCIENCE**

Stuart George Jones, BMA

## **MASTER OF BIOMEDICAL ENGINEERING MBiomedE**

Jia De Chen, Dip *Zhongshan*

David Anthony Shearer, BSc *Syd.*, DipEd *Syd. Teachers Coll.*

## **MASTER OF ENGINEERING SCIENCE MEngSc**

Alice Aghajanzad Aghajanian, BE

Thomas Michael Bagot

Chiong Chew Daniel Boey, BAppSc *W.A.I.T.*

Geoffrey William Bond, BE

Dugald McLeod Campbell, BE *N'cle.(N.S.W.)*

John Stephen Carigliano, BE *N.S.W.I.T.*

David Kong-Sang Chan, BSc BE *Syd.*

Young Ku Choi, BE *N.U. Busan*

Rajaratnam Kumarasamy, BSc(Eng) *Ceyl.*

Jacqueline Ingeberg Magdalene Findeis, BSc BE *Syd.*

Garry Robert Anning Greenhalgh, BSc(Tech) *N.S.W.*,

GradDip *Capricornia I.A.E.*

Eddy Suryanto Hasyim, Ir *Tanjungpura*

Esmat William Ibrahim, BE *Suez Canal*

Eugene Izis, Dip *Azerbaijan Poly. Inst.*

Tae Seok Kang, BE *Hong Ig*

Alan Kwan, BE

Gwan Soen Lie, Ir *Surabaya I.T.*

Pradeep Malhotra, BE *Delhi*

Leonard Henry Michaels

Murali Nagarajan, BE

Kin Fun Ng

Seng Ng, BE  
Shafiq-Ur Rahman, BScEngg *Pak. Eng.*  
Michael Alan Rosenblitt, BSc(Eng) *Cape T.*  
Calvin Jonathan Stein, BE *Pret.*  
Douglas Leslie Stevens, BE  
Paul Anthony Stroud, BE  
Edie Tanuwidjojo, BE *Bandung I.T.*  
Ramchandra Shrikrishna Vaidya, BTech *I.I.T. Kanpur*  
Hondro Widjaja, BE  
Kenneth Tor Tong Yee, BE

**MASTER OF SURVEYING SCIENCE    MSurvSc**

Andrew Bruce McLeod, BSurv

**DOCTOR OF PHILOSOPHY    PhD**

**ELECTRICAL ENGINEERING AND COMPUTER SCIENCE**

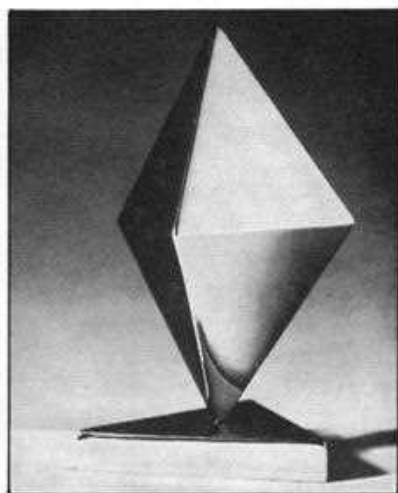
Peter Anthony White, BE

Thesis: Detection, recording and analysis of partial discharges in electrical insulation using computer methods.

Michael Joseph Wise, BA BE

Thesis: EPILOG: A parallel interpreter for logic programs.

## 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 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.

SMITH, Robert Ted  
BE

ROW

D

SEAT

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