



UNIVERSITY COLLEGE
AUSTRALIAN DEFENCE FORCE ACADEMY

CONFERRING OF DEGREES
SCIENCE AND ENGINEERING

Wednesday, 11 December, 1991, 4.00 p.m.



THE UNIVERSITY OF
NEW SOUTH WALES



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. Justice Samuels, AC, MA *Oxf.*, Chancellor.

Mrs S. A. Phillips, BA *Monash*, Deputy College Secretary (Academic).

Professor A. R. Hyland, BSc *Qld.*, PhD *A.N.U.*, MIAU, MASA, Chairman of the Academic Board, will present to the Chancellor candidates from the University College.

Professor R. L. Martin, AO, MSc *Melb.*, PhD ScD *Camb.*, DSc *A.N.U.*, FAA, FTS, FRSC, FRACI, Chairman, Australian Science and Technology Council, will deliver the Occasional Address.

Professor H. P. Heseltine, AO, BA *W. Aust.*, MA PhD *Louisiana State*, Rector of the University College.

The Procession will retire, the Congregation standing.

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.

THE BAND OF THE CORPS OF OFFICER CADETS

BANDMASTER: Warrant Officer Class 2 G. W. Palfrey

BAND CADET CAPTAIN: Midshipman B. A. White

DRUM MAJOR: Midshipman D. J. Powell

The Band of the Corps of Officer Cadets was established to provide music for ceremonial parades, functions and other activities held at the Australian Defence Force Academy. The COOC Band consists of officer cadets from the three services and is run on a volunteer basis.

The origin of the COOC Band dates back to early 1986, starting as a Drum Corps consisting of four side drummers and a bass drummer. In June of that year a full time Bandmaster provided by the Australian Army Band Corps was appointed. With the recruitment of both brass and woodwind players, a Military Band was soon raised.

The first engagement saw the COOC Band provide the musical support to the Defence Academy's weekly parade. A memorable day for the Corps of Officer Cadets. The Band now performs regularly at various functions held at the Defence Academy.

The Band rehearses four mornings a week for 30 minutes and maintains a strength of approximately 50 members, all of whom enjoy the opportunity of being able to continue their interest in music.

CONFERRING OF DEGREES

UNIVERSITY COLLEGE

PRESENTED BY PROFESSOR A. R. HYLAND
CHAIRMAN OF ACADEMIC BOARD

BACHELOR OF SCIENCE BSc

Stuart Brian Alexander	Jeremy James Hackett
Philip Blair Arms	Julie Anne Hackett
Andrew Anthony Beer	Garth Macarthur Hamilton
Grant Simon Beer	Mark David Hammond
Paul William Berryman	Craig Michael Harmon
Malcolm Colin Binns	Glenn James Harris
Guy William Laban Blackburn	Christopher James Harrison
Julie Anne Bonarius	Russell James Hatton
Simon Martin Bonavita	James Mackintosh Hillock
Michelle Rebecca Breen	Wayne William Hoban
Garry Allan Brown	David Sinclair Holder
Tara Catherine Bucknall	Renae Lee Hollier
Adrian Jude Capner	Jason Clarke Hunter
Benjamin Bell Christie	Prapard Iammolee
Robb Richard Clifton	James Ronald Isbell
Michael John Coad	Glenn Alfred Jackson
Arnnathea Collie	Liam Stewart Jones
Mark Denovan Connolly	Peter David Komorowski
Veronica Marjory Cook	Stephen Walter Kowal
Mark Andrew Coyle	Michael James Lavercombe
Peter Andrew Davies	Catherine Milena Leggett
Tony Karl Davis	Ashley Lynn
Damon Peter Dermody	Adrian Bruce McCallum
Anthony Peter Dickson	Kyle John McCallum
Susan May Dillon	Ashley John McDonald
Jacqueline Elissa Doulton	Cherie Anne McDonald
Stephen Wesley Farquhar	Damion Lachlan McNaught
Gavin John Fletcher	Nicole Heather Milligan
Robert Frank Franchi	Leo Michael Monkivitch
Keith Furniss	Mona Elizabeth Moussa
Adam John Garone	Phongsak Munklahan
Shane Leonard Glassock	Adam Francis Nickson
Wayne Lee Gough	Damien Francis Nugent
Neal Ray Greene	Paul Michael O'Driscoll
Phillip William Griggs	Jonathon Gary Orford

Jason Andrew Otter
Kate Maree Parry
James Edward Pateman
Delia Winnifred Pembrey
Liam Joseph Pulford
Andrew Paul Quinn
Paul Howard Ralph
Kurt Anton Rezek
Scott Nathan Roberts
Jason Stuart Selman
Craig Donald Shortt
Matthew Peter Sibree
Benjamin Donald Smith
John Nicholas Storey

Anthony Maxwell Stringer
Karl Kanib Sullivan
Robyn Louise Swain
James Martin Szabadics
James Francis Telfer
Peter John Thompson
Fiona Louise Thorburn
Jason Anthony Turton
Graham Leonard White
Paul Jason Willis
Stuart John Wilson
Andrew James Wood

Honours Class 2 Division 2

CHEMISTRY

Justin John Alexander

GEOGRAPHY

Barbara Elizabeth Jenkins

Honours Class 2 Division 1

CHEMISTRY

Kathryn Elizabeth Barr
Peter Buchanan Spencer

COMPUTER SCIENCE

Paul Kenneth Freeman
Gary Raymond Noack

GEOGRAPHY

Kathryn Rebecca Ford

INFORMATION SYSTEMS

Michele Halina Miller
Lisa Monique Uden
Leslie James Bruce Young

MATHEMATICS

Victoria Kate Robson

OCEANOGRAPHY

John Stavridis

Honours Class 1

GEOGRAPHY

Anthony Neil Thomas

MATHEMATICS

Kristan Ann Renkema

PHYSICS

Duncan James Watts

BACHELOR OF ENGINEERING BE

CIVIL ENGINEERING

Honours Class 2 Division 2

Darron Anthony Coyle
Troy Jamie Davey
Mark Anthony Ferguson

ELECTRICAL ENGINEERING

Kirk Edward Batty
Mark Stanhope Bilbrough
David Dorey Browne
Andrew William Dickson
Craig James Fallshaw
Regina Lynne Gorton
Nafee Karen McFadzen
Michael Robert Minter
Robert William Moore
James Gordon Nash
David John Peel
Sonia Jane Richards
Arnulf Riedl
Salvatore John Sidoti
Philip Theodoor Tammen
Trevor Matthew Woolley

Honours Class 2 Division 2

Peter John Meehan

Honours Class 2 Division 1

Bradley Kenneth Mackay
Kathryn Leslei Ross

GRADUATE DIPLOMA GradDip

CIVIL ENGINEERING

David Philip Cowper, BE *Syd*, GradDipCompSt *Canberra CAE*
Barry Arthur Stanton, BSc

Honours Class 1

Anthony James Coleman

MARITIME ENGINEERING

Andrew Ralph Bewick

Honours Class 2 Division 1

Simon Patrick Dunphy
Jamie Neil Watson

MECHANICAL ENGINEERING

Adam Stuart MacDonald
Peter John Mingay

Honours Class 2 Division 2

Simon James Coburn

Honours Class 2 Division 1

Paul Andrew Richards
David Martin Swan

MASTER OF ENGINEERING SCIENCE MEngSc

CIVIL

Ian Roderick Cumming, BE
Alan John Sheridan, BE
Waduge Kulasiri Thenuwara, BSc Eng *Ceyl*
David Andrew Westphalen, BE
Timothy Charles Wise, BE
Colin Brian Wythes, BSc DipEd *Syd*

ELECTRICAL

Stuart Alexander Barr, BE
James Stewart Deans, BE (Com Elec) *Canberra CAE*
James Joseph O'Brien, BE
Minh Ha Vo, BE *Syd*
Nicholas Maxwell Ward, BE *QIT*

MASTER OF INFORMATION SCIENCE MInfSc

Andrew Neill Haddock, BE *NSW*, DipCompSc *LaT*, GradDip Comm Sys *FIT*
Andrew Jeffrey Ward, GradDipInfoSys *Canberra CAE*

MASTER OF SCIENCE MSc

COMPUTER SCIENCE

Genet M'gan Edmondson, BSc *Melb*, BA *ANU*

DOCTOR OF PHILOSOPHY PhD

CIVIL ENGINEERING

Jian Chu, BSc (Eng) *PLA Logistics Engineering Institute*
Thesis: Strain Softening Behaviour of Granular Soils under Strain Path Testing.

Minmin Zhao, BSc (Eng) *Tongji*
Thesis: Behaviour of Foundation of an Offshore Gravity Platform.

CHEMISTRY

Patricia Mary Angus BSc *Melb*, DipEd *Canberra CAE*
Thesis: Mechanistic Aspects of the Chemistry of Amides Bonded to Cobalt (III) Amines

COMPUTER SCIENCE

Lawrence Peter Brown, BSc *Monash*

Thesis: Analysis of the DES and the Design of the LOKI Encryption Scheme.

Thomas Hardjono, BSc *Syd*

Thesis: Applications of Cryptography for the Security of Database and Distributed Database Systems.

William Michael Newberry, BSc *Syd*

Thesis: Active Intruder Detection: Some Aspects of Computer Security and User Authentication.

MATHEMATICS

Steven Ian Barry, BSc *Adel*

Thesis: Flow in a Deformable Porous Medium.

MECHANICAL ENGINEERING

Mark Siebrand Petrusma, BE

Thesis: A Near Wake Study of Segmented Blunt Trailing Edge Aerofoils in Subsonic Flow.

ACADEMIC PRIZES AWARDED 1991

BOARDS OF STUDIES PRIZES

HUMANITIES AND SOCIAL SCIENCES

First Year: Gavin Michael Keating
Second Year: Elizabeth Grace Boulton
Third Year: Alexandra Mimi Hensford

SCIENCE

First Year: Grant Coleman
Second Year: Chin Han Wong
Third Year: Glenn James Harris

ENGINEERING

First Year: Lin Pue Ang
Second Year: Craig John Chaseling
Third Year: Thomas William Bielenberg

DONATED PRIZES

The E. R. Bryan Prize (English 1):
Gavin Michael Keating

The Alan Carter Prize (Oceanography 1):
Gavin Michael Keating

The Sir Leslie Martin Prize (First Year Physics) (Shared):
Lin Pue Ang
Stephen Martin Penny

The Rockwell Electronics Award (Electrical Engineering 1):
Ian Michael Brace

The Australian Institute of Physics Prize (Second Year Physics):
Glenn Carlton Croft

The Second Year Computer Science Prize:

Robyn Louise Phillips

The Second Year Information Systems Prize, donated by the Australian Computer Society:

Cameron James Mann

The Royal Aeronautical Society Canberra Branch Prize (Second Year Aeronautical Engineering):

Craig John Chaseling

The Professor Grahame Johnston Prize (Australian Literature):

Sandra Jane Vlacci

The Barry Andrews Shakespeare Prize:

Elizabeth Grace Boulton

The Dorothy Green Prize (Australian Literature):

Sandra Jane Vlacci

The Computer Science Project Prize, donated by Aspect Computing (Shared):

Mark Andrew Coyle

Gavin John Fletcher

Russell James Hatton

The Information Systems Project Prize, donated by Aspect Computing (Shared):

Jason Anthony Turton

Andrew James Wood

The L.C.F. Turner Prize (History):

Alastair James Wishart Cooper

The Science Prize, donated by British Aerospace Australia (Shared):

Glenn James Harris

Paul Howard Ralph

The R. J. A. Barnard Memorial Prize (Three Years of Mathematics):

Glenn James Harris

The Institution of Engineers, Australia Award for Third Year Electrical Engineering:

Darren Rene Spee

The Institution of Radio and Electronics Engineers Australia (Canberra Division) Prize:

Bradley Kenneth Mackay

The Institution of Electrical Engineers Prize:

Anthony James Coleman

The Wing Commander John Yeaman Prize (Transportation Engineering):

Troy Jamie Davey

The Siemens-Plessey Award in Electrical Engineering (Communications and Electronics):

Bradley Kenneth Mackay

The A. H. Corbett Prize (Top Graduate in Engineering):

Anthony James Coleman

ACADEMIC DEPARTMENT PRIZES

Chemistry

First Year (Shared):

William Neil McGarvey

Katrina Joy Tunley

Computer Science:

Paul Howard Ralph

Economics:

First Year: Julia Gai Cahill

Third Year: James Windermere Lord

English:

Alexandra Mimi Hensford

Geography:

Julie Anne Bonarius

History:

Alison Narelle Vincent

Information Systems:

Peter David Komorowski

Management:

Sally Anne Lyle McCay

Mathematics:

Glenn James Harris

Mechanical Engineering:

Second Year: Robert James Green

Third Year: Katherine Anne Reid Bayliss

Final Year: Paul Andrew Richards

Oceanography:

Glenn James Harris

Physics:

Andrew Anthony Beer

Politics:

Kenneth Larnach Bowes

GRADUATE PRIZES

The Defence Studies Prize:

Neil Frederick James

The Royal Aeronautical Society (Canberra) Graduate Prize:

Mark Siebrand Petrusma

The Ria de Groot Prize (Shared):

Patricia Mary Angus

Deborah Lynn Jenkin