THE UNIVERSITY OF NEWCASTLE
New South Wales

CONFERRING OF DEGREES

FACULTIES
of
ARCHITECTURE
EDUCATION
ENGINEERING
and
MATHEMATICS

FRIDAY, 3rd MAY, 1985
5.30 p.m.
THE ARMS OF THE UNIVERSITY OF NEWCASTLE

The Arms of the University, granted in 1965, are based upon those of the Shortland family. This is appropriate as it was Lieutenant John Shortland, R.N., who discovered the entrance to the Hunter River where Newcastle now is. On 9th September, 1797, Shortland was pursuing escaped convicts when he entered the river. At the foot of the cliffs on the island lying off the river entrance, Nobbys, his men found coal. The mineral was first shipped from "Coal Harbour" in 1799. The harbour became Port Hunter and the town was named, in 1804, after the then Secretary of State for The Colonies, Lord Newcastle. The site on which the University has been developed is in Shortland. For those interested in heraldry the inscription on the Crest of Arms is:

Azure a Sea Horse naiant in dexter chief a representation of the constellation of the Southern Cross of five Mullets all Argent.

ORDER OF PROCEEDINGS

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

The National Anthem

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

Sir James Balderstone will deliver the Occasional Address.

The Vice-Chancellor, Professor D. W. George, will present the candidate for admission to an Honorary Degree.

The Dean, Professor B. S. Maitland, will present candidates for admission to degrees in the Faculty of Architecture.

The Dean, Professor R. S. Laura, will present candidates for admission to degrees in the Faculty of Education and the names of candidates for the award of Diplomas in the Faculty.

The Dean, Professor A. W. Roberts, will present candidates for admission to degrees in the Faculty of Engineering and the names of candidates for the award of Diplomas in the Faculty.

The Dean, Professor A. J. Guttmann, will present candidates for admission to degrees in the Faculty of Mathematics and the names of candidates for the award of Diplomas in the Faculty.

Gregory Ponchard, B.A. (New England), M.Ed.Stud., will speak on behalf of the graduates.

The Vice-Chancellor, Professor D. W. George, A.O.

The Procession will retire, the Congregation standing.

Organist: Michael Dudman
CONFERRING OF DEGREES

SIR JAMES SCHOFIELD BALDERSTONE, Kt.

Presented for admission to the Honorary degree of Doctor of the University by the Vice-Chancellor, Professor D. W. George, A.O.

Mr. Chancellor,

The history of Newcastle and the Hunter Valley is intimately linked with that of Australia's largest public company, the Broken Hill Proprietary Company Limited. The BHP iron and steel works opened in Newcastle in 1915, but the company, as its name continues to proclaim, had an earlier start shortly after the discovery of rich lead and zinc deposits in the far west of N.S.W. in 1883. At its head as Chairman of the company is a notable Australian whom we honour today, Sir James Balderstone.

Sir James was educated at Scotch College, Melbourne and on leaving school joined the meat exporting company, Thomas Borthwick & Sons, for a year before spending five years in the Royal Australian Navy during World War 2. After the War, he resumed with Borthwicks and resided in Queensland. Returning to Melbourne in 1948, he was appointed Australian General Manager of Borthwicks in 1953 and whilst with that company played a major role in the formation of the Stanbroke Pastoral Company, which today, with over 300,000 cattle on twenty stations around Queensland and the Northern Territory, is the largest cattle company in Australia, if not the world. He was appointed its Managing Director in 1964, a position he relinquished in 1981, although he remains its Chairman. Sir James's deep knowledge of the pastoral industry led to contributions such as the Foundation Chairmanship of the Australian Meat Exporters Federal Council, membership of the Australian Meat Board (1964–67) and the Chairmanship of the Commonwealth Government Policy Discussion Group on Agriculture (1981–82).

However, Sir James's interests have extended well beyond rural activities. In commerce, he has served since 1962 on various Boards of the A.M.P. Society, and on the Board of the Commerical Bank of Australia (and the Westpac Banking Corporation after the C.B.A. merger with the Bank of N.S.W.) and I.C.I. (Australia). From 1976–83 Sir James was a Director of Woodside Petroleum Ltd. and North West Shelf Development Pty. Ltd. His interest in public affairs is revealed with his Presidency of the Institute of Public Affairs (Victoria) from 1981 to 1984. Sir James became a Director of B.H.P. in 1971 and Chairman in July, 1984 when the then Chairman, Sir James McNeill (and an honorary Doctor of Science of this University) stepped down after more than 50 years with B.H.P. His outstanding contributions to the public life of Australia were recognized by Her Majesty the Queen in 1983 when he was knighted in the New Years Honours List.

Mr. Chancellor, the wealth and prosperity of this great country depend upon the efforts of all its citizens. However, a special responsibility rests upon its leaders in government, commerce and industry — their decisions affect the lives of us all and their commitment to maintaining our national economic health has never been more critical than at present. Newcastle, in particular, knows all too well that the fortunes (or misfortunes) of a company like the B.H.P. are the fortunes (or misfortunes) of each and every one of us. And without a prosperous economy, need I say, there can hardly be prosperous universities.

Today, we have the distinction as a University of honouring a man who has carried and continues to carry such responsibilities. It is particularly appropriate that the ties between the University and the company he leads should be cemented in this way in 1985, the company's Centenary year. It is thus with great pleasure, Mr. Chancellor, that I present Sir James Balderstone to you for admission to the Honorary Degree of Doctor of the University.
CONFERRING OF DEGREES

FACULTY OF ARCHITECTURE

Presented by the Dean of the Faculty of Architecture, Professor B. S. Maitland

Bachelor of Science (Architecture)

Nicos Georgiou
Barnabas Hadiwibawa
Leong Hung Sek
Leung Man Hong Tony
Li Fuk Shing John
Luk Wing Hong
Paul Stephen McLeod
William Russell Otto
Phillip John Ryan
Tan Hiok Chian
Tang Kang Wah Thomas
Wat Hon Bon Dickson
Wong Tak Choi

Hon Beatrice Mei Fung — with Merit
Paraskevas Karanges — with Merit
Keung Wing-Lok — with Merit
Irmgard Maria Kreutzer — with Merit
Lai Kai Fan Melvyn — with Merit
Leung Chung Kan Anthony — with Merit
Lim Weng Hua Francis — with Merit
Sushma Mather — with Merit
Ng Pui Ying — with Merit
Pang So Wa Clara — with Merit
Brendan Richard Smith — with Merit
Soo Hye Chong — with Merit

Bachelor of Architecture

Rahim Ahmad
Cheah Yin Thuan, B.A.(Arch.) (C.N.A.A. London)
Robert Claudio Simon De Giorgio
Gan Eng Hooi
Azhari Bin Haji Idris
Nor Ismail
Mariam Jamaludin
Noor Hisham Md Yatim
Stephen Michael Ernest Menzies
Norhisham Bin Mohamed Noori
Mohd Daud Bin Nordin
Rosnawati Othman
Mariyah Pit
Juminan Bin Samad
Zainal Ahmad
Zulkifli Bin Sudin

Bruce John Crook (Honours Class II)
Dino Dipaolo (Honours Class II)
Yuen Kwok Cheung, B.A.(Hong Kong) (Honours Class II)

Debra Kerry Dipaolo (Honours Class I)
Lee Vincent Kim San (Honours Class I)
Geoffrey Edward Wade (Honours Class I)

Master of Architecture

Nicola Odette Malnic, B.Arch.
CONFERRING OF DEGREES

FACULTY OF EDUCATION

Presented by the Dean of the Faculty of Education, Professor R. S. Laura

Bachelor of Educational Studies

Robyn Heather Kiloh, B.A.
Adele Suzanne Marciniak
Patricia Joan Probert, B.A.
Wallace James Schrader, B.Sc.(Tech.)

Master of Educational Studies

Margaret Antney, B.A.
Mark William Arnold, B.Com.
Mark Andrew Baldwin, B.A.
Jeffrey Lee Bromage, B.Sc.
Allan Stephen Cope, B.Sc.(Sydney), B.A.(New England)
Stephen Date, B.A.
John Dugas, B.A.
Eunice Kay Everingham, B.A.
Sonia Ghabrial, B.A.
Cedric Eric Greive
Bernard John Griffin, B.Sc.
Ho Fuk Chuen
Rosemary Margaret Jurisich, B.A.(Otago N.Z.)
Susanne Kenny, B.A.
Thomas Keith Lewis, B.A.
Janet Elizabeth Macdonald, B.A.(New South Wales)
Jacqueline Sandra McIntosh, B.A.

Master of Educational Studies (continued)

Nancy May North
Elizabeth Evangeline Oldham, B.A.(Sydney)
Gregory John Ponchard, B.A.(New England)
Patricia Anne Rogers, B.Ed.(Darling Downs Institute of Tech.)
Ali Shirazi, B.Sc.Eng.(California State)
John Joseph Skehan, B.A., B.Com.
Marion Lynette Smith, B.Ed.Stud.
Robyne Diane Trotter, B.Ed.(Newcastle C.A.E.)
Peter Robert Wright, B.A.(New England)

Master of Education

Thesis: "A Study in Curriculum Development for Practical Training in Agricultural Education"

Thesis: "Forward And Backward Digit Span: A Study Of Cognitive Processes Within Ability Groups"

Doctor of Philosophy

Trevor Henry Cairney, B.A., Litt.B.(New England)
Thesis: "Reading Ability And The Resolution Of Anaphoric Reference"

John William McCrum, M.B.A.
Thesis: "A Facet Analysis Of Comparative Perceptions Of The Effects Of A Technological Innovation Upon An Educational Institution"
AWARD OF DIPLOMAS

Diploma in Education

Gina Barbon
Mary Beneforti, B.A.
(New England)
Francis Austin Breiner,
B.Sc.
John Charles Butcher
Margaret Mary Chaston, B.Sc.
(Queensland)
Mary Geralyn Poh Yoke Chin
Gloria Chiussini, B.Sc.
(Philippines)
Anne Elizabeth Clarke
Lesley Margaret Connors, B.Sc.
Nicholas Mark Dalton
Christine Mary Davis, B.A.
Frances Michelle Dibley
Jerry Douglas, B.A.
Kent Dieter Elssmann, B.Sc.
(Andrews U.S.A.)
Beatrice Vaudine Esterbrook,
B.A.(Gippsland I.A.E.)
Kim Susanne Farnham, B.A.
Gail Marion Fay, B.Sc.
Elizabeth Maree Finch, B.A.
Louise Tonya Fletcher, B.A.
Adel Girgis
Roslyn Elizabeth Gourlay,
B.A.(Macquarie)
Dianne Maree Graham, B.A.
Robert Duane Graham
Jeffrey Wayne Green
Peter Thomas Harris, B.A.
Bruce William Hector,
B.Sc.(Met.)
Peter Charles Heyworth,
B.Sc.(Macquarie)
Meredyth Louise Irvine

Margaret Bernadette Kavanagh,
B.A.
Christopher Neil Keating, B.A.
Irene Kelly, B.A.
(Western Australia)
Peter John King
Janette Anne Kouvaros
Christopher Bruce Mackie,
B.Sc.(Met.)
Therese Jan McNamara, B.A.
Phillip John Mews, B.A.
Terese Leanne Miller, B.A.
Robert Gordon Moore
Peter Joseph Moreland, B.A.
(Australian National)
Kathryn Anne Mullett, B.Sc.
Kathryn Margaret Oram, B.A.
Robert Peter Quinan, B.Sc.
Wayne Robinson, B.A.
Louis Mark Rocco, B.A.
(Mitchell C.A.E.)
Glen David Rutherford
Ruth Anne Stockdale, B.A.
Anthony John Stone
Alice Margaret Summers, B.A.
Jean Thomson, B.A.
Ann Susan Tuckey, B.A.
Margaret Yvonne Turner-Mann,
B.A.
John Norton West-Soooby,
B.Math., B.A., PhD.
(Grenoble III)
Roslyn Margaret Wetzler, B.A.
Raeleen Therese Whiting, B.Sc.
Casanda Leanne Williamson, B.A.
Mandy Colleen Worth

CONFERRING OF DEGREES

FACULTY OF ENGINEERING

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

Bachelor of Science (Metallurgy)

Brian Donald Anderson

Bachelor of Engineering

Department of Chemical Engineering

Anthony Boyd
Warwick John Green

Peter George Cominos (Honours Class II, Division II)
David Damjanovic (Honours Class II, Division II)
Corinne Lesley Green (Honours Class II, Division II)
Graeme Joseph Gurr (Honours Class II, Division II)
Roy Russell Reichert (Honours Class II, Division II)
Cheng Nam Fai (Honours Class II, Division I)
David Leslie Coote (Honours Class II, Division I)
Alice Christina McInerney (Honours Class II, Division I)
Ronald Weibrecht (Honours Class II, Division I)
Paul Thomas Wills (Honours Class II, Division I)

Peter John Greig (Honours Class I)
Anthony Geoffrey Tate (Honours Class I)
Steven Ernest Taylor (Honours Class I)
Phillip White (Honours Class I)
Department of Civil Engineering and Surveying

James Alan Gilford
Michael John Graham
Peter James Hudson
Alan Christopher James
Khairul Annuar Kamarudin
Isikuki Punivalu
Sng Hui Lee
Francis James Spinaze
Glen Alexander Walker
Woo Yung Yew
Enayatollah Sarvestani Yazdani

Cheng Yih Fenn (Honours Class II, Division II)
Chung Mun On (Honours Class II, Division II)
Garth Christopher Dean (Honours Class II, Division II)
Lee Chi-Tong (Honours Class II, Division II)
Lim Hong Leong (Honours Class II, Division II)

Jeffrey Robert Garry (Honours Class II, Division I)
Brent Warwick Guest (Honours Class II, Division I)
Barry Neil Hancock (Honours Class II, Division I)
Geoffrey Robert Love (Honours Class II, Division I)
Glenn Ian McDiarmid (Honours Class II, Division I)

Rodney Keith Thorpe (Honours Class I)

Department of Electrical and Computer Engineering
Computer Engineering

Rodney Arthur Burke
Peter Reginald Horner
Warren Lionel Peatsall
John Michael Pitts
Albindar Singh
Rajpreet Singh-Khaira

Sng Siew Heng (Honours Class II, Division II)

Bachelor of Engineering (continued)

Andrew John Lewis (Honours Class II, Division I)
Chia Swee Tong (Honours Class I)
Chu Kok Onn (Honours Class I)
Ip Wah Fat (Honours Class I)
Leslie John Kramer (Honours Class I)

Lai Kai Luen Allen
(Honours Class I and University Medal)

Electrical Engineering

Jeffrey Allan McNaughton
David Thomas Murray
Christopher Gerard Shields
David Ross Thompson

Chung Pui Lam (Honours Class II, Division II)
Ng Chin Lock (Honours Class II, Division II)
Viet Quoc Nguyen (Honours Class II, Division II)
Patrick Francis Sasim (Honours Class II, Division II)

Nordin Bin Salleh (Honours Class II, Division I)
Gregory Stephen Shearer, B.Sc.(New South Wales)
(Honours Class II, Division I)

Tay Bok Swee (Honours Class I)

Department of Mechanical Engineering

Industrial Engineering

Ng Yong Mong Stephen

Tay Sen Kwan (Honours Class I and University Medal)
Bachelor of Engineering (continued)

Mechanical Engineering

Phillip George Caldwell
Warwick Douglas Cashmere
Christopher David Herbert
Stephen John Hodgson
Ian Lindsay Howie
Constantinos Kyriakides
Peter Lindsay Marsh
Kerry Alan Plater
David Ferguson Pollock
Richard Alan Spitzkowsky
Tee Hock Meng
Kevin John Tidball

Gregory John Baines (Honours Class II, Division II)
Mark Anthony Harris (Honours Class II, Division II)
Ng How (Honours Class II, Division II)
Teo Lian Hing (Honours Class II, Division II)

Glendon Baguley (Honours Class II, Division I)
Richard Ian Clausen (Honours Class II, Division I)
Nigel John Saul (Honours Class II, Division I)
Michael John Schofield (Honours Class II, Division I)
Teo Chin Sing (Honours Class II, Division I)
Kenneth Donald Yorke (Honours Class II, Division I)

Graeme John Bailey (Honours Class I)
Maurice John Berry (Honours Class I)
Paul Richard Bloink (Honours Class I)
Chua Leok Poh (Honours Class I)
Kong Peng Yin Richard (Honours Class I)
Ng Lian Hock Danny (Honours Class I)
David Mervyn Piddington (Honours Class I)
John Alan Vickers (Honours Class I)
Paul Raymond Wright (Honours Class I)

Bachelor of Metallurgy

Andrew James Arthur Lambert

Francis Michael Cunningham (Honours Class II, Division II)
Gregory John Lord (Honours Class II, Division II)

John Mack Costley (Honours Class II, Division I)
Iain Wallace Hamilton (Honours Class II, Division I)
Amanda Louise Plumsted (Honours Class II, Division I)

Erich Herold Kisi (Honours Class I)
Ali Samuel Marmulla (Honours Class I)

Bachelor of Surveying

Graeme John Ellerton
Mark Lenard

Christopher Arthur Abbott (Honours Class II, Division II)
James Arthur Donald Pelosa (Honours Class II, Division II)
David Ian Turner (Honours Class II, Division II)

George Putsay (Honours Class II, Division I)

Yong Ser Joo (Honours Class I)

Tan Willie Chee Keong (Honours Class I and University Medal)

Master of Engineering Science

Department of Chemical Engineering

Leslie James Muldoon, B.Sc.
Colin Percy Phillips, B.Sc.
Master of Engineering
Department of Chemical Engineering

John Glendon Rayner, B.Sc.
Thesis: “A Study Of Some Aspects Of Polyelectrolyte Flocculation With Particular Reference To Their Performance In Solutions Of Indifferent Electrolyte”

Department of Electrical and Computer Engineering

Alan Robert Broadfoot, B.E.
Thesis: “Inverter Fed Induction Motor Traction Drive”

Subhash Chandra, B.Sc.(Agra India), M.Sc.(Aligarh India), PhD(Queens Canada)
Thesis: “Fault Location in Sequential Trees”

Doctor of Philosophy
Department of Chemical Engineering

Nafis Ahmed, B.Sc.(Eng.)(Bangladesh)
Thesis: “Fine-Particle Flotation In A Stirred Vessel”

Rajender Parshad Gupta, M.Tech.(Indian Institute of Technology)
Thesis: “Radiative Transfer Due To Fly Ash In Coal Fired Furnaces”

Department of Mechanical Engineering

Alexander Harrison, B.A.(Macquarie), B.Eng.(New South Wales Institute of Tech.), M.Sc.(Macquarie)

AWARD OF DIPLOMAS
Diploma in Surveying
Marafa Diggi Siddiq
CONFERRING OF DEGREES
FACULTY OF MATHEMATICS

Presented by the Dean of the Faculty of Mathematics, Professor A. J. Guttmann

Bachelor of Mathematics

Martin Ross Benney
Richard Vincent Bot
Catherine Anne Boyle
John Charles Butcher
Carol Dorothea Fairleigh
Foo Fei Choon
David Keith Holloway
Michele Ann Latter
Peter James Lock
Dennis Manias
John Paul Marczak
Neil Robert Metcalfe
Andrew John Monaghan
Joanne Pauline O'Doherty
Bradley Ross Plowman
Wayne Trevor Smith
Mark Serge Spasko
Emilio Suprano
Lindsay Talbot
James Reginald Torpey
Ann Louise Walters
Peter James White
Wong Ming Wah Richard

Bachelor of Mathematics

Christopher Joseph Byrnes (Honours Class II, Division I)
Philip Geoffrey Carruthers, B.Sc.(Australian National) (Honours Class II, Division I)
Lim Ai Hua (Honours Class II, Division I)
Gary John Cooper (Mathematics/Physics — Honours Class I)
Wendy Shearer (Honours Class I)

Master of Mathematics

Department of Mathematics, Statistics and Computer Science

Stephen John Quinn, B.Math.
Thesis: “Existence And Enumeration Of Graph Factorisations And Chessboard Configurations”

Simon, B.Sc., B.A.(James Cook)
Thesis: “Data Compression In Symbolic Computing”

Vimaladevi Sivakumaran, M.Sc.(Sri Lanka)
Thesis: “Circle Configurations In The Plane”

Doctor of Philosophy

Department of Mathematics, Statistics and Computer Science

Glen Martin D’Este, B.Sc.(Australian National)
Thesis: “Time-Dependence In Continuous Urban Transport Modelling”

Edwin Richard Galea, B.Sc.(Monash)
Thesis: “Rotating Magnetic Upper Main Sequence Stars”

Thomas Robert Osborn, M.Math.
Thesis: “Protein Folding”

Donald Kenneth Skilton, B.Math.
Thesis: “Chain Decompositions Of Graphs”
AWARD OF DIPLOMAS

Diploma in Computer Science

Robyn Anne Evans, B.Sc.(Sydney)
Kwan Kwok Keung, B.Sc.(New South Wales)
Brian John Young, B.Sc.
Yuen Michael Gook, B.Sc.(Civil Eng.)(Melbourne)

Geoffrey Brian Samuel, M.A.(Oxford), PhD.(Cambridge) — with Merit

PRIZES

Faculty of Architecture

Board of Architects of New South Wales Prize
Neville Clouten Architectural Synthesis Prize
Sydney C. Morton Prize
Newcastle Gas Company Prize in Building Science
P.G.H. Ceramics Prize

Geoffrey Edward Wade
Lu Ong King
Lee Kim San Vincent
Brendan Richard Smith
Soo Hye Chong

Faculty of Education

Institute for Educational Research Prize

Louise Dianna Becker

Faculty of Engineering

Engineering Fraternity Prize
Institution of Engineers Australia Newcastle Division Prize

Barry Neil Hancock
Tay Sen Kwan

Department of Chemical Engineering

Broken Hill Proprietary Company Limited Prize
Australasian Corrosion Association (Newcastle Branch) Prize
Newcastle Chemical Engineering Group Prize
Institution of Chemical Engineers (N.S.W. Group) Prize

Catherine Marguerite Harris
John Anthony Lucas
Alice Christina Flanagan
Phillip White
Department of Civil Engineering and Surveying

Australian Photogrammetric Society Prize
Broken Hill Proprietary Company Limited Prize
B.B.R. Australia Pty. Ltd. Prize
Institution of Surveyors, Australia Hunter-Manning Group Prize in Surveying
Tony Herzog Award
Board of Surveyors Medal
Association of Consulting Surveyors N.S.W. Prize in Land Studies

Tan Willie Chee Keong
Alan Charles Schmierer
Graeme Charles McKenzie
Tan Willie Chee Keong
Tan Willie Chee Keong
Tan Willie Chee Keong
Tan Willie Chee Keong

Department of Electrical and Computer Engineering

Broken Hill Proprietary Company Limited Prize
Purdue Prizes in:
  Circuit Fundamentals
  Computer Engineering

Murray Charles Macpherson
Peter Stepien
Chia Swee Tong

Department of Mechanical Engineering

Broken Hill Proprietary Company Limited Prize
Ernest J. Egan Prize
Les Gibbs Prize for Creative Design
Morison Prizes in Engineering:
  Junior Prize
  Senior Prize
  W. E. Clegg Memorial Prize

Steven James Parish
Nigel John Saul
Pamela Penelope Byles
Wong Chew Wah
David Keir Bisset
Tay Sen Kwan

Department of Metallurgy

Australasian Institute of Metals (Newcastle Branch) Prize
Australasian Institute of Mining and Metallurgy (Newcastle Women's Auxiliary) Prize

Tan Willie Chee Keong
Tan Willie Chee Keong
Tan Willie Chee Keong

Australasian Corrosion Association (Newcastle Branch) Prize

Broken Hill Proprietary Company Limited Prize
Daniel Clark Award
Ernest Guy Smith Memorial Medal

Denise Carol O'Brien
(Peter William Goodhew
(David John Trotter

Shared

Shared

Leanne Marshall
Michael William Parker
Ali Samuel Marmulla

Faculty of Mathematics

Digital Prizes in:
  Computer Science II
  Computer Science III
  Statistics and Computing
Margaret Pitcher Prizes in:
  Mathematics I
  Part II Mathematics
Mathematics Prizes in:
  Second Year Mathematics
Mortimer Temple Prize

Richard Paul Cooper
Peter James Lock
Robert James Beardwood

Amanda Joy Cady
Lyndel Mary Cooper

Murray Charles Macpherson
Robert James Beardwood