CONFERRING OF DEGREES

FACULTIES
of
ECONOMICS and COMMERCE
and
SCIENCE

SATURDAY, 4th MAY, 1985
10.00 a.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 Roderick Carnegie will deliver the Occasional Address.

The Dean of the Faculty of Science, Professor R. J. MacDonald, will present the candidate for admission to an Honorary Degree.

The Dean, Professor I. G. Sharpe, will present candidates for admission to degrees in the Faculty of Economics and Commerce and the names of candidates for the award of Diplomas in the Faculty.

The Dean, Professor R. J. MacDonald, will present candidates for admission to degrees in the Faculty of Science and the names of candidates for the award of Diplomas in the Faculty.

Daniela Fink, B.Sc., 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 RODERICK HOWARD CARNEGIE, Kt.

Presented for admission to the Honorary degree of Doctor of Science by the Dean of the Faculty of Science, Professor R. J. Mac Donald.

Mr. Chancellor,

Sir Roderick Howard Carnegie is currently the Chairman and Chief Executive of CRA Limited, one of Australia's biggest mining and mineral ore processing companies. As such he can rightly be described as one of the outstanding industrial leaders of our country.

Sir Roderick was born in Melbourne and attended Geelong Church of England Grammar School for most of the primary and secondary phases of his education. In 1951 he commenced studies at the University of Melbourne where he graduated as a physicist with a Bachelor of Science degree in 1954. It is perhaps a sad comment on the state of physical sciences in Australia at that time that Sir Roderick was attracted to alternative disciplines, and spent the next three years at Oxford University, studying Philosophy, Politics and Economics. Sir Roderick graduated with an M.A. from Oxford in 1957. The next two to three years were spent at the Harvard Graduate School of Business Administration from which he graduated with a Master of Business Administration with Highest Distinction in 1959. I would suggest Mr. Chancellor, that it is rare to meet an individual in the world of industry with such a wide and diverse educational background. The diversity of his educational training must surely have contributed significantly to the successful career which has followed, in the years since 1959.

Sir Roderick joined McKinsey and Co. Ltd. in 1959 and stayed with them until 1970. He has represented that Company in Europe, the U.S.A. and Australia. He was an Associate of the Company from 1965–1968 and a Director from 1968–1970. In 1970 Sir Roderick joined CRA Ltd. as Finance Director, and rapidly rose to become Joint Managing Director in 1971, Managing Director and Chief Executive in 1972 and Chairman and Chief Executive since 1974.

Sir Roderick's ability and expertise have been recognised in a variety of ways. He was a member of the Jackson Committee formed in 1974 to report on Policies for Development of Manufacturing Industry. He was a member of the Australia-China Council until 1982 and is currently Chairman of the Consultative Committee on Relations with Japan. He is Vice-President of the Business Council of Australia and Vice-President of the Australian Mining Industry Council.

Mr. Chancellor, as Professor of Physics in this University, it gives me great pleasure to present to you a physicist who has used the initial discipline and training of that degree to make major contributions to the encouragement of technological innovation in the Australian mining and minerals industry in particular, and in Australian export industry in general. I present to you Roderick Howard Carnegie, Knight Bachelor, Bachelor of Science of the University of Melbourne, Master of Arts of the University of Oxford, Master of Business Administration of Harvard University for admission to the Degree of Doctor of Science, honoris causa.
CONFERRING OF DEGREES

FACULTY OF ECONOMICS AND COMMERCE

Presented by the Dean of the Faculty of Economics and Commerce, Professor I. G. Sharpe

Bachelor of Commerce

Trevor Warren Barlow
Lynne Kathleen Allen Beiers
Oliver James Anthony Boico
Paul Martin Bolton
Mark Francis Brannigan
Gregory John Buckman
Wendy Ruth Carlton
Christopher John Cavanagh
Chan Yuk Tong
Chuan Yeow Hang
Chong Sing Gin Joyce
Chong Tian Seng
Chu Yu-Man
Stacey Margaret Clarke
Anthony Peter Croese
Swati Dave
Michael DiRienzo
Rosella Distefano
Joseph Drzyzga
Kim Maree Eather
Olivia Carmel Fenlon
Kerrie Louise Fildes
Victoria Edna Forsyth
Fung Chi Sang Joseph
Stephen John Stuart Garrett
Neil Gordon
Christopher Griffiths

Paul William Grosbernd
Robert Gerhard Haberl
Noelene Terese Hafey
Michael Stewart Harkin
Grant Andrew Harrison
Jayne Maree Haviland
Mark James Hill
Ho Chai Kun
Gregory Ross Hogan
Kathryn Anne Howe, B.Sc.
Mark Jackaman
John Gregory Jones
Lindsay Gordon Karathanassis
Kok Kon Meng
Denise Lau
Gregory Allan Lawrence
Narelle Anne Lawrence
Lim Andrew Cheong Seng
Lim Kwee Huay
Lim Shih Hsi
Wayne Varney Longbottom
Mark Longworth
Paul Michael Maher
Peter Howard Matthews
Virginia Ruth McCarthy
Donna Maree McCormack
John McDonald

Chris Krstevski (Accounting — Honours Class II, Division II)

Bachelor of Economics

Mark Lynch McLean
Tony Richard Moore
Andrew John Morris
Donna Maree Murphy
Gregory Carl Nolan
John Joseph O'Hearn
Tim O'Loughlin
Kelvin James Olive
Mark Bernhard Peper
Stan Petrovski
Leisa Pickstock
Andrew John Poole
Karen Leanne Poole
Cherrie Dawn Porter
Daniel Charles Redman
Cynthia Maree Reiher
Brian Richardson
Darren John Robson
Rosanna Rossi
Karen Michelle Rowland
Steven James Ryan
Cinzia Saccaro

Denise Margaret Seddon
Anthony Russell Glen Seton
Phillip Samuel Smith
Christopher John Sneddon
Garth William SteggleS
Sue-Maree Sutherland
Tan Lan Fang
Tan Lan Foon
Tan Saw Ai
Tay Sen Kwan
Geoffrey Martyn Taylor
Peter George Thomas
Janelle Margaret Thornton
Stephen John Turner
Mark Royce Vassella
Francine Ann Walker
Sharon Lana Wiech
Mark Andrew Witt
Christopher Wong
Wong Shun Ming Sabina
Yang Teck Huat
Yip Woon-Ching Karen

Mark Craig Brennan
Antony Michael Coleman
Paul Leslie Emery
Joanne Therese Flook
William John Gately
Ian Goodwin
Allan Anthony Gordon
Christopher John Gregory
Ho Kok Kee, B.E.
Allen Paul Innes
Tony Jovevski
Ian Arthur Masson
Craig Peter Osborne
Stephen Mark Trayhurn
Master of Business Administration

John Grahame Arthur, B.Com.
Samuel Sowah Boye, B.Sc.(Cape Coast, Ghana)
Peter John Brown, B.Met.
Michael John Buffier, B.E.(Sydney)
Robert Graham Cameron, B.E.(New South Wales)
Chew Fui Yee
Wendy May Dear, B.Sc.(New South Wales)
Bruce Douglas Denney, B.E.(New South Wales)
Christopher Douglas Drinkwater, B.Sc.(Eng.)
Atisak Ekahitanond, B.Pharm.(Sydney)
Roger Gardner
Peter Holland
Phillip Arthur Hughes, B.E.(New South Wales)
Margaret Yvonne Joliffe
Thomas J. Kelly, B.Sc.(Rutgers U.S.A.)
Alex Mafuru Mufungo Magai, B.Sc.(Dar-Es-Salaam)
James Henry Middleton, B.E.(New South Wales)
Andrew Bruce Mills, B.A.(Monash)
William George Moller
Regina Mutembei, L.L.B.(Dar-Es-Salaam)
Kenneth David Myers, B.Tech.(Massey, N.Z.)
Robert Obadiah Rugimbana, B.Sc.(Dar-Es-Salaam)
Manbir Singh, B.Ec.(Delhi)
Michael David Skepper, B.Sc.(Leeds)
Michael Damien Slater, B.Com.
Lawson Roger Smith, L.L.B.(Canterbury N.Z.)

Master of Commerce

Department of Commerce
Jim Psaros, B.Com.
Thesis: "Bottom Of The Harbour Tax Schemes: Were Remedial Measures Really Necessary"

Department of Economics
Steven Craig Garlick, B.A.
Thesis: "Temporal Variation in Regional Input-Output Multipliers: A Case Study of the Hunter Region"

Doctor of Philosophy

Department of Economics
Muhammad Ghulum Kibria, M.A. Rajshahi(Bangladesh), M.A. Lakehead(Canada)
AWARD OF DIPLOMAS

Diploma in Business Studies
Joan Blatchford, B.A.(Sydney)
Hugh Desmond Morgan
Loover Shum

Diploma in Economic Studies
Mark Lawrence Dyball, B.A.

CONFERRING OF DEGREES

FACULTY OF SCIENCE

Presented by the Dean of the Faculty of Science, Professor R. J. MacDonald

Bachelor of Science

Melissa Jane Adams
Elsa Bronwyn Adshead
Julie Bronwyn Alinskas
Joanne Marie Begley
Philip John Bell
Gregory Richard Bevan
Susan Margaret Braye, B.A.
Linda June Britts
Robin John Brown
Bronwyn Therese Burgess
Anne-Louise Carter
Jane Ellen Chidgey
Gary John Cooper
Stephen James Croft
Roslyn Renee Earp
Arthur James Favos
Susan Firth
Russell Griffiths
Jennifer Anne Irwin
Jenette Ann Jones

Louise Maree Kitsos
Joseph Wladimir Kostiw
Anthony Guy Maher
David Charles McCredie
Rhonda Janette Metcalfe
Anne Catriline Nichols
Anne Marie Phelan
Michael Patrick Pope
Mark Lawrence Ritchie
Patricia Dianne Rose
Craig Andrew Rutledge
Michael Trevor Sheedy
David Ivan Simpson
Robynne Lee Sly
Kelvin Mark Smith
Kerrie Elizabeth Taylor
Robyn Therese Taylor
Anne Thirlwell
Christopher Warwick Turvey
Robert John Virgin

Janien Floyd (Biology — Honours Class II, Division II)
Alan Robert Saxton (Geology — Honours Class II, Division II)
Darren John Shelly (Geography — Honours Class II, Division II)
William Michael Anseline (Biology — Honours Class II, Division I)
Ashley Charles James (Geology — Honours Class II, Division I)
Claudia Elisabeth Koller (Biology — Honours Class II, Division I)
Vivienne Alexandra Monk (Psychology — Honours Class II, Division I)
Karen Lee Moorhouse (Psychology — Honours Class II, Division I)
Wong Ming Wah Richard (Chemistry — Honours Class II, Division I)

Chan Wai Soen (Mathematics/Psychology — Honours Class I)
Daniela Ann Fink (Geology — Honours Class I)
Afaf Girgis-Shea (Psychology — Honours Class I)
John Patrick Homer (Physics — Honours Class I)
Lau Jeng Sang (Mathematics/Physics — Honours Class I)
Sieh Kian Sin (Physics — Honours Class I)

Chong Wing Teck
(Mathematics/Physics — Honours Class I and University Medal)
Foo Francis Chee Heng
(Mathematics/Physics — Honours Class I and University Medal)

Master of Scientific Studies
Keith Allister Bedford, B.Sc.(Queensland), B.Sc.(James Cook), M.App.Sc.(Q.I.T.)

Master of Psychology (Clinical)
Frances Christine Lambert, B.Sc.(Sydney)
Thesis: “Coping With A Developmentally Disabled Child: A Study Of Some Psycho-Social Factors”

Denis Anthony O’Brien, B.A.

Mark Anthony Porter, B.A.
Thesis: “Decoding Facial Expressions Of Emotion: Correlates And Training For The Institutionalised Retarded”

Master of Psychology (Educational)
Louise Dianna Becker, B.A.(New England)

Robert Neal Gambrill, B.A.(New England)
Thesis: “Self-Coping, Systematic Desensitization, and Flooding in the Treatment of Test Anxiety in Senior High School Students”

Garry John Noble, B.A.

Annabelle Margaret Symes, B.A.
Thesis: “A Comparative Study Of Visual And Auditory Learning Techniques Of Aboriginal And Non-Aboriginal Children In Infant And Primary School”

Andrew John Taylor, B.Sc.

Kathryn Jan Thornton, B.A.(New England)
Thesis: “Simultaneous And Successive Processing, Planning And Problem Solving In Kindergarten Children”

Doctor of Philosophy

Department of Biological Sciences
John Rodney Buxton, B.Sc.

Christopher O’Neill, B.Sc.
Thesis: “Metabolism And Physiology Of The Preimplantation Embryo Of The Mouse”
James David Stanger, B.Sc.(James Cook)

*Thesis:* “The Fertilization Of Cumulus Free, Zona-Intact And Zona-Free Mouse Ova In Vitro”

**Department of Chemistry**

Ashim Kumar Ghosh, M.Sc., M.Phil.(Rajshahi, Bangladesh)

*Thesis:* “Characterization of Zeolite Acidity with Special Reference to Mordenites”

Merrick Russell Mahoney, B.Sc.

*Thesis:* “Analysis of the Electrode-Electrolyte Interface”

Terrence Patrick Mernagh, B.Sc.

*Thesis:* The Chemical Origins of Surface Enhanced Raman Scattering From Metal Electrodes”

**Department of Physics**

Iqbal Ahmad Ansari, M.Sc.(Aligarh Muslim, India)

*Thesis:* “Spatial Characteristics Of Low Latitude Pc 3 Geomagnetic Pulsations”

Roger Andrew Neill, B.Sc.

*Thesis:* “Physical Measurement of Human Binocular Parameters”

**Department of Psychology**

Yahaya Bin Mahomood, B.Sc.(National, Malaysia)


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**AWARD OF DIPLOMAS**

**Diploma in Coal Geology**

Christopher John Jones, B.Sc.(Tasmania) — with Merit

**Diploma in Science**

Honours Class II, Division II

Donald Charles Clausen, B.Sc.

Wendy Louise Spooner, B.A.

Honours Class II, Division I

Eric Henry Wynter Best, B.A.(New South Wales)

Annette Elizabeth Kennewell, B.Sc.(New England)

Rosalie Mary Osland, B.A.

Ailsa Joy Winter, B.A.(Macquarie)

Honours Class I

Elizabeth Ann McHugh, B.Sc.

Karen Jean Slama, B.A.(Pitzer College, California)
PRIZES
Faculty of Economics and Commerce

Shell Prize in Economics and Commerce  
*Shared* (Mereddy Gae Brown  
Graham John Matthews  
Isabel Sanchez)

Department of Commerce

Australian Institute of Management
John Storey Memorial Awards in:
  Foundations of Finance  
  Quantitative Business Analysis II  
  Organisational Behaviour  
*Shared* (Gregory Allan Lawrence  
Jonathan Mark Peters  
Malcolm Dudley Campbell  
Cheung Tsung Tsin)

Broken Hill Proprietary Company
Limited Prize in Accounting I  
*Shared* (Kristine Ann O'Brien  
Glenys Faye Waters)

Australian Institute of Management
John Storey Memorial Awards in:
  Industry Economics  
  Labour Economics

Hunter Valley Social Sciences
Teachers' Association Prize in Public Economics

Morison Prizes in:
  Economics I  
  Economics II  
  Economics III

V. W. Turnbull Memorial Prize in International Economics

Universities Credit Union Prize in Introductory Quantitative Methods

Department of Legal Studies

S. D. Lindgren Memorial Prize in Legal Studies I

Newcastle Law Society Prize in Law of Contract  
*Shared* (Chew Eng Lee Paul  
Yip Woon-Ching Karen  
Ng Yan-Kwong)

Hunter Valley Law Society Prize in Law of Business Organisations

Department of Economics

Australian Finance Conference Prize in Money and Banking

Australian Institute of Management
John Storey Memorial Awards in:
  Industry Economics  
  Labour Economics

Hunter Valley Social Sciences
Teachers' Association Prize in Public Economics

Morison Prizes in:
  Economics I  
  Economics II  
  Economics III

V. W. Turnbull Memorial Prize in International Economics

Universities Credit Union Prize in Introductory Quantitative Methods

1985 Scholarship Holders

Neal J. Dickinson
Memorial Award

Greater Newcastle Permanent Building Society Limited
Undergraduate Scholarship in Economics and Commerce

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Faculty of Science

Broken Hill Proprietary Company
Limited Prize in Science
Robert James Beardwood

Department of Biological Sciences

Parkville Piggeries Prize in
Quantitative Genetics
Troy Ian Collie

Peter Hendry Prize in
Biochemistry
Allan Charles Kirkpatrick

Barry Boettcher Prize in
Biology I
Paul Gregory Chee

Department of Chemistry

C.S.R. Chemicals Prize
Wong Ming Wah Charles

Donald Peterson Prize
Robert James Beardwood

Royal Australian Chemical
Institute Prize in:
Chemistry IIA
Catherine Marguerite Harris

Chemistry III
Catherine Diver

Department of Geology

Edward John Phillips Memorial
Prize in Geology I
Bruce John Grayson

Frank Stoddart Prize
in Geology IIIA
Michael John Roach

Australian Institute of Mining
and Metallurgy:
John Fallins Memorial Prize
in Geology II
Martin Phillip Hand

William Vitnell Memorial Prize
in Geology IIIA
Philip Edmund Kuehn

Irene Vitnell Memorial Prize
in Geology IIIB
Mark Gregory Delaney

B.P. Australia Limited Scholarship
Mark Gregory Delaney

Department of Physics

Apollo Commemorative Prize in
Second Year Physics
Shared (Ronald Allen Elsley
Murray Charles MacPherson
Garry John Cooper
Foo Francis Chee Heng

Third or Fourth Year
Physics
Shared

Australian Institute of Physics
N.S.W. Branch Prize in
Physics IV
Sieh Kian Sin

George Arkla Harle Memorial
Prize in Physics
Shared (John Patrick Homer
Sieh Kian Sin

Department of Psychology

Australian Psychological Society Prize
Afaf Girgis-Shea

W. H. Ward Prize
Garry John Noble

Ivinskis Memorial Award
Maureen Patricia Connors