



THE AUSTRALIAN NATIONAL UNIVERSITY

general information

1973

THE AUSTRALIAN NATIONAL UNIVERSITY

GENERAL INFORMATION

*Extracts from Part 1 of the University Calendar for 1972
revised September 1972 for 1973*

The University's postal address is Box 4, P.O., Canberra, A.C.T. 2600, Australia, its telegraphic address Natuniv, Canberra, and its telephone number Canberra 495111. The University's official correspondence is conducted by the Registrar.

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PRINCIPAL

JANUARY

- 2 T University Office re-opens
- 2 T Final day for receipt of applications to re-enrol from students in the School of General Studies
- 19 F Buildings and Grounds Committee
- 19 F Final day for receipt of new enrolment applications from students who were at school in Australia in 1972
- 29 M Australia Day—University Office closed

FEBRUARY

- 1 Th Graduate Degrees Committee
- 5 M Standing Committee of Board of the School
- 9 F Finance Committee
- 9 F Standing Committee of Council
- 15 Th Board of the Institute
- 16 F Buildings and Grounds Committee
- 19 M Standing Committee of Board of the School
- 23 F Board of the School
- 26 M Orientation Week begins

MARCH

- 1 Th Graduate Degrees Committee
- 5 M FIRST TERM AND FIRST SEMESTER BEGIN
- 5 M Standing Committee of Board of the School
- 6 T Annual Commencement Dinner—University House
- 7 W Editorial Committee
- 8 Th Finance Committee
- 9 F Council
- 15 Th Board of the Institute
- 16 F Buildings and Grounds Committee
- 19 M Standing Committee of Board of the School
- 23 F Board of the School
- 30 F Final date for payment of fees for students re-enrolling in the School of General Studies

APRIL

- 2 M Standing Committee of Board of the School
- 5 Th Graduate Degrees Committee
- 5 Th CONFERRING OF DEGREES
- 6 F CONFERRING OF DEGREES
- 13 F Finance Committee
- 13 F Standing Committee of Council
- 16 M Standing Committee of Board of the School
- 19 Th Buildings and Grounds Committee
- 19 Th Board of the Institute
- 19 Th Standing Committee of Board of the School
- 20 F Good Friday—University Office closed—no lectures
- 23 M Easter Monday—University Office closed—no lectures
- 25 W Anzac Day—University Office closed—no lectures
- 27 F Board of the School

MAY

- 10 Th Finance Committee
- 11 F Council
- 12 S FIRST TERM ENDS
- 18 F Buildings and Grounds Committee

JUNE

- 4 M SECOND TERM BEGINS
- 4 M Standing Committee of Board of the School
- 6 W Editorial Committee
- 7 Th Graduate Degrees Committee
- 8 F Finance Committee
- 8 F Standing Committee of Council
- 11 M Queen's Birthday—University Office closed—no lectures
- 14 Th Board of the Institute
- 15 F Buildings and Grounds Committee
- 15 F Final date for payment of Second Term fees
- 18 M Standing Committee of Board of the School
- 22 F Board of the School
- 23 S FIRST SEMESTER ENDS
BREAK IN TERM LECTURES BEGINS

DATES, 1973

JULY

- 2 M TERM LECTURES RESUME
- 5 Th Graduate Degrees Committee
- 9 M SECOND SEMESTER BEGINS
- 9 M Standing Committee of Board of the School
- 12 Th Finance Committee
- 13 F Council
- 19 Th Board of the Institute
- 20 F Buildings and Grounds Committee
- 23 M Standing Committee of Board of the School
- 27 F Board of the School

AUGUST

- 3 F Bush Week Activities—lectures cancelled
- 10 F Finance Committee
- 10 F Standing Committee of Council
- 11 S SECOND TERM ENDS
- 17 F Buildings and Grounds Committee

SEPTEMBER

- 3 M THIRD TERM BEGINS
- 5 W Editorial Committee
- 6 Th Graduate Degrees Committee
- 10 M Standing Committee of Board of the School
- 13 Th Finance Committee
- 14 F Council
- 14 F CONFERRING OF DEGREES
- 14 F Final date for payment of Third Term and Second Semester fees
- 20 Th Board of the Institute
- 21 F Buildings and Grounds Committee
- 24 M Standing Committee of Board of the School
- 28 F Board of the School

OCTOBER

- 1 M Labour Day—University Office closed—lectures cancelled
- 4 Th Graduate Degrees Committee
- 8 M Standing Committee of Board of the School

OCTOBER—continued

- 12 F Finance Committee
- 12 F Standing Committee of Council
- 18 Th Board of the Institute
- 19 F Buildings and Grounds Committee
- 20 S Lectures for the year cease—
TERM COURSES
- 22 M Standing Committee of Board of the School
- 26 F Board of the School
- 27 S Lectures for the year cease—
SEMESTER COURSES

NOVEMBER

- 1 Th Closing date for applications to enrol in 1974 from overseas students and for all new applicants other than full-time school pupils
- 1 Th Examinations begin in the School of General Studies
- 1 Th Graduate Degrees Committee
- 5 M Standing Committee of Board of the School
- 8 Th Finance Committee
- 9 F Council
- 15 Th Board of the Institute
- 16 F Buildings and Grounds Committee
- 19 M Standing Committee of Board of the School
- 23 F Board of the School
- 24 S Examinations in the School of General Studies conclude

DECEMBER

- 3 M Standing Committee of Board of the School
- 5 W Editorial Committee
- 8 S THIRD TERM ENDS
SECOND SEMESTER ENDS
- 14 F Finance Committee
- 14 F Standing Committee of Council
- 21 F Buildings and Grounds Committee
- 25 T Christmas — University Office closed until Wednesday, 2 January 1974

THE ARMS OF THE UNIVERSITY
GRANTED IN 1954

Per chevron Azure and Barry wavy of eight Argent and of the last a Boomerang chevronwise Or in sinister chief five Stars representing the Constellation of the Southern Cross also Argent.

The motto 'Naturam Primum Cognoscere Rerum' is from the poem *De Rerum Natura* (III, 1072) by Lucretius, Roman poet, philosopher and scientist. It is translated by Cyril Bailey (1946) 'first to learn the nature of things'; an alternative, following Rolfe Humphries' 1968 translation of *De Rerum Natura*, would be 'above all to find out the way things are'.

TERM DATES

1973:

First Term — Monday, 5 March to Saturday, 12 May.

Second Term — Monday, 4 June to Saturday, 11 August.

Third Term — Monday, 3 September to Saturday, 8 December.

1974:

First Term — Monday, 4 March to Saturday, 11 May.

Second Term — Monday, 3 June to Saturday, 10 August.

Third Term — Monday, 2 September to Saturday, 7 December.

OFFICERS AND STAFF

CHANCELLOR

Herbert Cole Coombs, M.A. (W.Aust.), Ph.D. (Lond.), Hon. D.Litt. (W.Aust.), Hon. LL.D. (Melb., Syd. and ANU), F.A.H.A., F.A.S.S.A., F.A.A.

PRO-CHANCELLOR

The Honourable Sir Anthony (Frank) Mason, K.B.E., Q.C., B.A., LL.B. (Syd.).

VICE-CHANCELLOR

Emeritus Professor Sir John (Grenfell) Crawford, C.B.E., M.Ec. (Syd.), Hon. D.Sc. (N'cle.(N.S.W.)), Hon. D.Ec. (N.E.), Hon. LL.D. (Tas.), F.A.I.A.S., F.A.S.S.A. 1 January 1968; Professor of Economics and Director of the Research School of Pacific Studies, 1 September 1960. (Until 14 March 1973.)

VICE-CHANCELLOR-ELECT

Robert Martin Williams, M.A. (N.Z.), B.A., Ph.D. (Cantab.).

DEPUTY VICE-CHANCELLOR

Professor David Noel Ferguson Dunbar*, M.Sc. (N.Z.), Ph.D. (Melb.). 1 January 1968; Professor of Physics, 1 February 1959.

SECRETARY

Ross Ainsworth Hohnen, O.B.E., B.Ec. (Syd.). 8 March 1968; Registrar, 1 July 1949; Assistant to the Registrar, 19 September 1948.

MASTER OF UNIVERSITY HOUSE

To be appointed.

LIBRARIAN

To be appointed.

REGISTRAR

David Kenneth Ronald Hodgkin, B.Sc.(Econ.) (Lond.). 8 March 1968; Registrar, Institute of Advanced Studies, 10 February 1961; Deputy Registrar, 1 January 1957; Assistant Registrar, 20 October 1952.

BURSAR

William Stenhouse Hamilton, A.A.U.Q., F.A.S.A. 6 July 1956; Accountant, 20 February 1950.

REGISTRAR (PROPERTY AND PLANS)

David St. Alban Dexter, B.A. (Melb.). 8 March 1968; Acting Associate Registrar, 1 December 1967. Appointed 25 September 1967.

* Date prior to 30 September 1960, refers to appointment in the Canberra University College.

ACADEMIC REGISTRAR

Colin George Plowman*, B.Ec. (Syd.). 8 March 1968; Registrar, School of General Studies, 11 May 1962; Acting Registrar, School of General Studies, 15 January 1961; Assistant Registrar, 6 April 1959.

THE COUNCIL

Members elected by the Senate

Lionel Keith Murphy, Q.C., B.Sc., LL.B. (Syd.).

Elected 25 November 1969; re-elected 11 May 1971; present tenure expires 30 June 1974.

Peter Elliot Rae, B.A., LL.B. (Tas.).

Elected 3 June 1969; re-elected 11 May 1971; present tenure expires 30 June 1974.

Members elected by the House of Representatives

Kim Edward Beazley, B.A. (W. Aust.), M.A.

Became member of Interim Council 10 June 1949; elected to Council by House of Representatives 13 July 1951; re-elected 1 July 1953, 1 July 1955, 13 June 1956, 1 July 1958, 8 September 1960, 3 March 1964, 3 May 1967 and 19 August 1970; present tenure expires 18 August 1973.

Michael John Randal MacKellar, B.Sc.(Agr.) (Syd.), B.A. (Oxon.).

Elected 10 March 1970; re-elected 19 August 1970; present tenure expires 18 August 1973.

Members appointed by the Governor-General

George Austin Colman.

Appointed 30 September 1969; reappointed 30 September 1972; present tenure expires 29 September 1975.

Sir Norman (Lethbridge) Cowper, C.B.E., B.A., LL.B. (Syd.).

Appointed 1 July 1955; reappointed 1 July 1958, 30 September 1960, 30 September 1963, 30 September 1966, 30 September 1969 and 30 September 1971; present tenure expires 29 September 1974.

John Qualtrough Ewens, C.M.G., C.B.E., LL.B. (Adel.).

Appointed 30 September 1960; reappointed 30 September 1963, 30 September 1966, 30 September 1969 and 30 September 1972; present tenure expires 29 September 1975.

Sir Warwick (Oswald) Fairfax, M.A. (Oxon.).

Appointed 30 September 1963; reappointed 30 September 1966, 30 September 1969 and 30 September 1971; present tenure expires 29 September 1974.

* Date prior to 30 September 1960, refers to appointment in the Canberra University College.

Sir Brian (William) Hone, O.B.E., B.A. (Adel.), M.A. (Oxon.).
Appointed 30 September 1960; reappointed 30 September 1963,
30 September 1966, 30 September 1969 and 30 September 1972;
present tenure expires 29 September 1975.

Peter James Lawler, O.B.E., B.Ec. (Syd.).
Appointed 30 September 1972; present tenure expires 29 Sep-
tember 1975.

Thomas Fulton Coleman Lawrence, B.Sc., B.E. (Syd.), F.R.Ac.S.
Appointed 30 September 1969; reappointed 30 September 1972;
present tenure expires 29 September 1975.

Geoffrey Lance McDonald, B.A., M.B., B.S. (Syd.), F.R.A.C.P.,
M.R.C.P.
Appointed 26 May 1966; reappointed 30 September 1966, 30
September 1969 and 30 September 1971; present tenure expires
29 September 1974.

John Colinton Moore, B.Com. (Q'ld.), A.A.U.Q.
Appointed 30 September 1971; present tenure expires 29 Sep-
tember 1974.

Sir (Horace) Frank Richardson.
Appointed 1 July 1953; reappointed 1 July 1955, 1 July 1957,
30 September 1960, 30 September 1963, 30 September 1966,
27 February 1970 and 30 September 1971; present tenure expires
29 September 1973.

Sir Frederick (William George) White, K.B.E., M.Sc. (N.Z.), Ph.D.
(Cantab.), Hon. D.Sc. (Monash, ANU and P. & N.G.), F.A.A.,
F.R.S.
Appointed 30 September 1960; reappointed 30 September 1963,
30 September 1966, 30 September 1969 and 30 September 1971;
present tenure expires 29 September 1974.

Arthur John Russel Yencken, M.A. (Cantab.).
Appointed 26 May 1966; reappointed 30 September 1966, 30
September 1969 and 30 September 1972; present tenure expires
29 September 1975.

Members ex officio

The Chancellor; The Pro-Chancellor; The Vice-Chancellor; The
Deputy Vice-Chancellor; The Deputy Chairman of the Board
of the Institute of Advanced Studies: Frederick Colin Court-
ice, M.A., D.Phil. (Oxon.), D.Sc. (Syd.), M.R.C.S., F.R.A.C.P.,
Hon. F.R.A.C.S., F.A.A.; The Deputy Chairman of the Board
of the School of General Studies: Arthur Neville Hambly,
M.Sc., Dip.Ed. (Melb.), F.R.A.C.I.; The President of the Aus-
tralian National University Students' Association: Richard
Christopher Refshauge.

Chosen by Heads of the Research Schools in the Institute

Wilfred David Borrie, O.B.E., M.A. (N.Z.), F.A.S.S.A.

Chosen 30 September 1972; present tenure expires 29 September 1973.

Sir Ernest (William) Titterton, C.M.G., M.Sc., Ph.D., Dip.Ed. (Birm.), F.R.S.A., F.A.A.

Chosen 30 September 1972; present tenure expires 29 September 1973.

Chosen from among the Deans of Faculties in the School

Eric Charles Fry, B.A., B.Ec., Dip.Ed. (Syd.), Ph.D.

Chosen 30 September 1972; present tenure expires 29 September 1975.

Ian Gordon Ross, M.Sc. (Syd.), Ph.D. (Lond.), F.R.A.C.I.

Chosen 13 October 1971; rechosen 30 September 1972; present tenure expires 29 September 1973.

Elected by the Professors in the Institute

Patrick Alfred Pierce Moran, M.A., Sc.D. (Cantab.), M.A. (Oxon.), D.Sc. (Syd.), F.A.A.

Elected 30 September 1972; present tenure expires 29 September 1974.

Elected by the Professors in the School

Liu Ts'un-yan, B.A. (Peking), B.A., Ph.D., D.Lit. (Lond.), Dip.Ed. (H.K.), Hon.D.Litt. (Yeung-Nam), F.A.H.A.

Elected 30 September 1971; present tenure expires 29 September 1974.

Elected by the Non-professorial Academic Staff in the Institute

James Maurice Bowler, M.Sc. (Melb.), Ph.D.

Elected 30 September 1972; present tenure expires 29 September 1974.

Stuart Ross Taylor, M.A. (Oxon.), M.Sc. (N.Z.), Ph.D. (Indiana).

Elected 26 March 1971; re-elected 30 September 1972; present tenure expires 29 September 1975.

Elected by the Non-professorial Academic Staff in the School

Donald William Archdall Baker, M.A. (Melb.).

Elected 30 September 1972; present tenure expires 29 September 1975.

Peter Edwin Miles Standish, B.A., B.Ec. (Syd.).

Elected 30 September 1972; present tenure expires 29 September 1974.

Elected by the Research Students

Robert Parry Monckton, B.Sc. (Flin. and ANU).

Elected 30 September 1972; present tenure expires 29 September 1973.

Elected by the Undergraduate Students

Michael Grahame Wright.

Elected 30 September 1972; present tenure expires 29 September 1973.

Elected by Convocation

Ruth Emma Auguste Arndt, B.Sc.(Econ.) (Lond.).

Elected 30 September 1969; re-elected 29 September 1972; present tenure expires 29 September 1975.

The Honourable John Johnstone Dedman, B.A., Hon. LL.D.

Elected 30 September 1966; re-elected 30 September 1969 and 30 September 1972; present tenure expires 29 September 1975.

The Honourable Thomas Eyre Forrest Hughes, Q.C., LL.B. (Syd.).

Elected 30 September 1972; present tenure expires 29 September 1975.

Germaine Anne Joplin, B.A., D.Sc. (Syd.), Ph.D. (Cantab.).

Elected 30 September 1969; re-elected 30 September 1972; present tenure expires 29 September 1975.

Co-opted Members

John Darling.

Appointed 10 March 1967; reappointed 10 March 1969 and 12 March 1971; present tenure expires 11 March 1973.

Roy Douglas Wright, M.B., M.S., D.Sc. (Melb.), D.Sc., F.R.A.C.P.

Appointed 10 November 1972; present tenure expires 9 November 1974.

Secretary

The Registrar.

COUNCIL COMMITTEES

STANDING COMMITTEE

Chairman: The Pro-Chancellor

The Vice-Chancellor	The Chairman of the Buildings and Grounds Committee
The Deputy Vice-Chancellor	The President of the Australian National University Students' Association
The Deputy Chairman of the Board of the Institute	Sir Norman Cowper, C.B.E.
The Deputy Chairman of the Board of the School	The Hon. Dr J. J. Dedman
The Chairman of the Finance Committee	Mr J. Q. Ewens, C.M.G., C.B.E.
	Dr Germaine A. Joplin

Secretary: The Registrar

FINANCE COMMITTEE

Chairman: Mr J. Darling

The Vice-Chancellor	Professor W. D. Borrie, O.B.E.
The Deputy Vice-Chancellor	Mr G. A. Colman
The Secretary	Mr J. Q. Ewens, C.M.G., C.B.E.
The Deputy Chairman of the Board of the Institute	Mr H. J. Goodes, C.B.E.
The Deputy Chairman of the Board of the School	Mr J. C. Moore
Mr K. E. Beazley	Senator P. E. Rae
	Sir Frank Richardson
	Professor I. G. Ross

Secretary: The Bursar

BUILDINGS AND GROUNDS COMMITTEE

Chairman: Mr A. J. R. Yencken

The Hon. Dr J. J. Dedman	Mr K. L. McKay
Mr L. J. Downer	Mr A. L. Morris
Dr M. M. Gore	Professor I. G. Ross
Mr J. S. Harper	Mr A. T. Shakespeare
Mr P. F. Harrison	Mr R. Thorne
Mr T. F. C. Lawrence	

Members ex officio: The Vice-Chancellor, The Deputy Vice-Chancellor, The Secretary

Secretary: The Registrar (Property and Plans)

ADVISERS ON LEGISLATION

Chairman: Mr J. Q. Ewens, C.M.G., C.B.E.

The Vice-Chancellor	Professor J. E. Richardson
Mr J. L. R. Davis	Professor G. Sawyer
Mr A. D. Hambly	Professor L. R. Zines
Mr D. C. Pearce	

Secretary: The Registrar

CHANCELLOR'S COMMITTEE

Chairman: Dr H. C. Coombs

Sir Norman Cowper, C.B.E.	Professor P. H. Partridge
Mr J. Darling	

Secretary: The Registrar (Property and Plans)

EDUCATION COMMITTEE

The Pro-Chancellor	Mrs Ruth E. A. Arndt
The Vice-Chancellor	Mr K. E. Beazley
The Deputy Chairman of the Board of the Institute	The Hon. Dr J. J. Dedman
The Deputy Chairman of the Board of the School	Sir Brian Hone, O.B.E.
The Member of the Council elected by Research Students	Dr G. L. McDonald
The Member of the Council elected by Undergraduate Students	Sir Frederick White, K.B.E.

PROFESSORIAL BOARD

Chairman: The Vice-Chancellor

The Deputy Vice-Chancellor	Professor Heathcote
The Master of University House	Professor Herbst
Professor Ada	Professor Hinds
Professor Arndt	Professor Horridge
Professor Atiyah	Professor Jaeger
Professor Barnett	Professor John
Professor Basham	Professor Johns
Professor Birch	Professor B. L. C. Johnson
Professor Birt	Professor R. St. C. Johnson
Professor Bishop	Professor Jones
Professor Borrie	Professor Kanef
Professor Broom	Professor Kuhn
Professor A. Brown	Professor La Nauze
Professor D. A. Brown	Professor Langridge
Professor Buchdahl	Professor Le Couteur
Professor Bull	The Librarian
Professor Burns	Professor Liu Ts'un-yan
Professor N. G. Butlin	Professor Low
Professor S. J. C. L. Butlin	Professor Martin
Professor Caldwell	Professor Mathews
Professor Cameron	Professor Milgate
Professor Carr	Professor Miller
Professor Clark	Professor Moran
Professor Courtice	Professor Morris
Professor Craig	Professor Mulvaney
Professor Crawcour	Professor Neumann
Professor Crisp	Professor Newton
Professor Curtis	Professor Nichol
Professor Davidson	Professor Ninham
Professor de Bray	Professor Ovington
Professor de Jong	Professor Parker
Professor Dixon	Professor Partridge
Professor Donaldson	Professor Passmore
Professor Edwards	Professor Peaslee
Professor Eggen	Professor Pike
Professor Fenner	Professor Pitchford
Professor Gascoigne	Professor Provins
Professor Gibb	Professor Pryor
Professor Gibson	The Registrar
Professor Golson	Professor Reid
Professor Gruen	Professor Richardson
Professor Hambly	Professor Ringwood
Professor Hannan	Professor Robertson
Professor Hardy	Professor Ross

Professor Runciman
 Professor Sawyer
 Professor Scales
 The Secretary
 Professor Slatyer
 Professor Spate
 Professor Swan
 Professor Terrell
 Professor Titterton
 Professor Tucker

Professor Turnovsky
 Professor Walker
 Professor Wang Gungwu
 Professor Ward
 Professor Whyte
 Professor Williams
 Professor Wurm
 Professor Zines
 Professor Zubrzycki

Secretary: The Registrar

OFFICERS FOR CEREMONIAL OCCASIONS

Marshal: Professor G. S. Reid

Esquire Bedell: Dr G. B. Barlin

THE BOARD OF THE INSTITUTE OF ADVANCED STUDIES

Chairman: The Vice-Chancellor

Deputy Chairman: Professor Courtice

The Deputy Vice-Chancellor

Professor Ada
 Professor Arndt
 Professor Birch
 Professor Bishop
 Professor Borrie
 Professor A. Brown
 Professor Bull
 Professor Butlin
 Professor Caldwell
 Professor Carr
 Professor Craig
 Professor Davidson
 Professor Eggen
 Professor Fenner
 Professor Gibson
 Professor Golson
 Professor Hambly
 Professor Horridge
 Professor John
 Professor Jones
 Professor Kanef
 Professor Kuhn
 Professor La Nauze
 Professor Langridge
 Professor Le Couteur
 The Librarian

Professor Low
 The Master of University House
 Professor Martin
 Professor Moran
 Professor Morris
 Professor Neumann
 Professor Newton
 Professor Nichol
 Professor Ninham
 Professor Parker
 Professor Partridge
 Professor Passmore
 The Registrar
 Professor Reid
 Professor Ringwood
 Professor Robertson
 Professor Runciman
 Professor Sawyer
 Professor Slatyer
 Professor Swan
 Professor Titterton
 Professor Walker
 Professor Wang Gungwu
 Professor Ward
 Professor Whyte
 Professor Wurm

THE BOARD OF THE SCHOOL OF GENERAL STUDIES

Chairman: The Vice-Chancellor

Deputy Chairman: Professor Hambly

The Deputy Vice-Chancellor

Professor Atiyah
 Professor Barnett
 Professor Basham

Professor Birt
 Professor A. Brown
 Professor D. A. Brown

Professor Buchdahl	Professor Kuhn
Professor Cameron	Professor Liu Ts'un-yan
Professor Clark	Professor Mathews
Professor Courtice	Professor Mulvaney
Professor Crawcour	Professor Newton
Professor Crisp	Professor Ovington
Professor de Bray	Professor Pitchford
Professor de Jong	Professor Provins
Professor Dixon	Professor Pryor
Professor Donaldson	Professor Reid
Dr C. Duke	Professor Richardson
Dr E. C. Fry	Professor Ross
Professor Gibb	Professor Scales
Professor Gibson	Professor Terrell
Professor Hardy	Professor Tucker
Professor Heathcote	Professor Turnovsky
Professor Herbst	Professor Walker
Professor Hinds	Professor Williams
Professor Johns	Professor Zines
Professor B. L. C. Johnson	Professor Zubrzycki
Professor R. St. C. Johnson	

DEANS OF THE FACULTIES

- Dean of the Faculty of Arts:* Dr E. C. Fry (until 9 August 1975)
Dean of the Faculty of Asian Studies: Professor E. S. Crawcour (until 6 August 1973)
Dean of the Faculty of Economics: Professor C. R. Heathcote (until 27 October 1974)
Dean of the Faculty of Law: Professor P. S. Atiyah (until 20 September 1973)
Dean of the Faculty of Science: Professor I. G. Ross (until 29 September 1973)

COMMITTEES OF THE BOARD OF THE SCHOOL OF GENERAL STUDIES

STANDING COMMITTEE OF THE BOARD

- The Vice-Chancellor
 The Deputy Vice-Chancellor
 The Deputy Chairman of the Board of the
 School of General Studies (Chairman)
 The Dean of the Faculty of Arts
 The Dean of the Faculty of Asian Studies
 The Dean of the Faculty of Economics
 The Dean of the Faculty of Law
 The Dean of the Faculty of Science
 Professor Tucker (until 29 September 1973)
 Professor B. L. C. Johnson (until 29 September 1974)

PROMOTIONS COMMITTEE

- The Vice-Chancellor *or*
 The Deputy Vice-Chancellor (Chairman)
 Professor Sir Rutherford Robertson (until 28 February 1973)
 Professor Ross (until 28 February 1974)
 Professor Scales (until 28 February 1975)

ADMISSIONS COMMITTEE

The Vice-Chancellor

The Deputy Vice-Chancellor

The Deputy Chairman of the Board
of the School of General Studies
(Chairman)

One member from each faculty nominated by the dean:

Mr J. A. Grieve (Arts)

Dr J. G. Caiger (Asian Studies)

Dr C. Forster (Economics)

Mr J. L. R. Davis (Law)

Professor Gibb (Science)

One member from the Institute of Advanced Studies:

Dr S. V. Boyden

POSTGRADUATE SCHOLARSHIPS COMMITTEE

The Deputy Vice-Chancellor (Chairman)

Professor Crisp (Arts)

Dr R. H. P. Mason (Asian Studies)

Mr W. R. C. Jay (Economics)

Dr D. O'Connor (Law)

Professor Hinds (Science)

PRIZES COMMITTEE

The Dean of Students (Chairman)

Professor Barnett

Professor Crawcour

Professor Kuhn

Professor Turnovsky

TIMETABLE COMMITTEE

Professor Reid (Chairman)

Dr R. J. Campbell

Mr P. N. Creasy

Professor Dixon

Mrs Jane Flecknoe

Dr J. T. F. Jordens

Dr M. Rasmussen

UNIVERSITY HOUSE

Master

To be appointed.

Fellows

Term expires 15 August 1973:

Dr P. A. Arriens
Mr R. M. McCulloch
Mr I. C. Maclean
Dr A. B. Roy
Mr P. E. M. Standish

Term expires 15 August 1974:

Dr A. R. Crawford
Dr C. Duke
Dr F. E. M. Lilley

Honorary Fellows

The Rt. Hon. Sir Robert Menzies, K.T., C.H., Q.C., F.A.A., F.R.S.
Sir Richard Woolley, O.B.E., M.Sc. (Cape T.), M.A., Sc.D. (Cantab.), Hon. LL.D. (Melb.), F.A.A., F.R.S.
Emeritus Professor Sir Mark Oliphant, K.B.E., F.R.S.N.Z., F.A.A., F.R.S.
Emeritus Professor A. D. Trendall, C.M.G., K.C.S.G., M.A., Litt.D. (N.Z. and Cantab.), Hon.Litt.D. (Melb.), Hon. D.Litt. (Adel. and ANU), F.S.A., F.B.A., F.A.H.A.

BRUCE HALL

Warden

W. P. Packard, M.A. (N.Z.). 10 January 1961.

Deputy Wardens

I. R. Hancock, B.A. (Melb.), B.Phil. (Oxon.)
M. Ann Moffatt, B.A. (Melb.), Ph.D. (Lond.), M.A.

Fellows

Mrs Ruth E. A. Arndt	Mr D. G. Nash
Professor S. A. Barnett	Dr P. Rudman
Mr J. D. Bradley	Miss M. B. Wylie
Mr K. G. Hindle	

BURTON HALL

Warden

G. G. Rossiter, D.F.C., B.A. (W. Aust.), M.A. (Oxon.). 1 June 1965.

Deputy Warden

J. D. Ritchie, B.A., Dip.Ed. (Melb.), Ph.D.

Fellows

Mr P. J. Blamey	Dr Germaine A. Joplin
Dr C. Bryant	Mr A. W. Patterson
Mr D. R. L. Davies	Mr P. A. Riggs
Professor R. M. W. Dixon	

GARRAN HALL

Warden

J. R. T. Short, B.Sc. (W. Aust.), D.Phil. (Oxon.), D.Sc. (Aberd.).
22 September 1965.

Deputy Wardens

Patricia M. Sorby
J. M. Stephens, B.A.

Fellows

Dr L. T. Carron	Miss H. May
Mr K. Crane	Mr D. Nicholson
Mr E. Glowrey	Dr S. R. Taylor
Lady Hewitt	Professor R. D. Terrell
Dr Thelma A. C. Hunter	

GRADUATE HOUSE

Governing Body

Dr Julia M. Potter (Chairman)	Mr K. Lyall
Mr J. O. Awe	Mr R. P. Monckton
Professor W. D. Borrie, O.B.E.	Professor D. P. Scales
Mr P. E. Hickman	

JOHN XXIII COLLEGE

(Established on behalf of the Roman Catholic Church by the
Dominican Fathers and affiliated with the University)

Master

Father T. Hegarty, O.P.

Dean

Father M. Keating, O.P.

Bursar

Father L. Clandillon, O.P.

Governing Body

Father T. Hegarty, O.P.
Father M. Keating, O.P.
Father L. Clandillon, O.P.
Mr J. Q. Ewens, C.M.G., C.B.E.
Mr J. Ryan
Mr P. Zed

URSULA COLLEGE

(Established on behalf of the Roman Catholic Church by the Ursuline Nuns and affiliated with the University)

Principal

Sister M. Angela Cooney, O.S.U., B.A., Dip.Phty (Q'ld.), M.S.S. (Rome)

Vice-Principal and Secretary

Sister Mary Mackintosh, O.S.U., B.A., Dip.Ed.Admin. (N.E.)

Bursar

Sister M. Madeleine Ryan, O.S.U., B.Sc.

Governing Body

Sister M. Angela Cooney	Miss G. Kuhl
Sister M. Madeleine Ryan	Dr Margaret R. Middleton
Sister Mary Mackintosh	Miss M. Stewart
Professor R. St. C. Johnson	

BURGMANN COLLEGE

(Established under the auspices of the Church of England in Australia, the Methodist Church of Australasia, the Presbyterian Church of Australia, the Congregational Union of Australia, the Baptist Union of Australia and the Churches of Christ in Australia; and affiliated with the University.)

Master

D. M. Griffin, M.A., Ph.D., Sc.D. (Cantab.).

Staff Tutors

L. D. Rushbrook, M.A. (Auck.).

Helen R. E. Ware, B.A. (Dunelm), Ph.D. (Lond.).

Governing Body

Mr I. A. Barnett	Mr W. M. McLennan
The Rev. J. H. Bennett	The Rev. F. P. McMaster
Dr F. J. Bergersen	Mr G. S. Martin
Dr J. H. Bradbury	Dr C. A. Price
Professor D. A. Brown	Dr J. R. Richards
Miss W. R. Bruce	Mr L. D. Rushbrook
The Rt. Rev. K. J. Clements	Mr A. T. Shakespeare
Mr J. V. Cropper	The Rev. Dr J. S. Udy
Mr A. C. Davis	The Rev. A. J. Watt
Dr D. M. Griffin	Miss P. M. White
The Rev. Dr A. W. Loy	Professor H. M. Whyte
Mr D. I. McAlpin	The Rev. C. H. J. Wright

THE INSTITUTE OF ADVANCED STUDIES

This list sets out the membership of the staff as at 30 September 1972, but also includes prospective members whose dates of appointment fell shortly thereafter. It has also been possible to include some later changes in senior staff.

The date immediately after a member's name is the date from which the present appointment took effect.

DEPUTY CHAIRMAN OF THE BOARD OF THE INSTITUTE OF ADVANCED STUDIES

Professor F. C. Courtice, M.A., D.Phil. (Oxon.), D.Sc. (Syd.), M.R.C.S., F.R.A.C.P., Hon. F.R.A.C.S., F.A.A. 10 August 1971.

THE JOHN CURTIN SCHOOL OF MEDICAL RESEARCH

DIRECTOR

Professor F. J. Fenner, M.B.E., M.D., D.T.M., Hon. M.D., F.R.A.C.P., F.R.C.P., F.A.A., F.R.S. 11 September 1967.

BIOCHEMISTRY

Professor:

Frank William Ernest Gibson, D.Phil. (Oxon.), D.Sc. (Melb.), F.A.A. 1 January 1967.

Professorial Fellow:

John Francis Morrison, B.Sc. (Syd.), M.Sc. (Q'ld.), D.Phil. (Oxon.), D.Sc. 5 April 1968; Senior Fellow, 9 March 1962; Fellow, 1 July 1956; Research Fellow, 17 February 1954; Scholar, 11 August 1951.

Senior Fellow:

Harry Rosenberg, B.Sc. (Melb.), Ph.D. 1 July 1961; Fellow, 1 July 1957; Research Fellow, 11 November 1955; Scholar, 16 March 1953.

Fellows:

Denis Castle Shaw, B.Sc. (W. Aust.), Ph.D. (Cantab.). 5 April 1968; Research Fellow, 14 October 1963.
Graeme Barry Cox, B.Sc., Ph.D. (Melb.). 8 May 1970; Research Fellow, 29 March 1967.

Senior Research Fellow:

Peter Frank Nixon, B.Sc.(Med.), M.B., B.S. (Syd.), Ph.D. 5 August 1971; Research Fellow, 5 August 1970; Scholar, 13 January 1964 to 12 July 1967.

Research Fellows:

Ian Gordon Young, M.Sc. (Melb.), Ph.D. 19 June 1969; Scholar, 1 January 1967 to 28 February 1969.

Chittur Venkataramier Viswanathan, B.Sc. (Bom.), M.Sc. (Poona), Ph.D. (Indian Inst. of Science), Dr.rer.nat. (Mün.). 16 May 1970. (Until May 1973.)

Rajinder Kumar Chamber, B.V.Sc. (Jab.), B.Sc. (Panj. (I)), Ph.D. 6 May 1972; Scholar, 6 August 1964 to 2 August 1967.

Keith James Ellis, B.Sc., Ph.D. (Adel.). 6 July 1972.

Robert George Gerdes, B.Sc., Ph.D. (N.S.W.). (To arrive.); Postdoctoral Fellow, 17 November 1970.

CLINICAL SCIENCE

Professor:

Henry Malcolm Whyte, B.Sc., M.B., B.S. (Q'ld.), D.Phil. (Oxon.), M.R.C.P., F.R.A.C.P. 13 August 1966.

Professorial Fellow:

Paul John Nestel, B.S., M.D. (Syd.), F.R.A.C.P. 1 January 1967.

Senior Fellow:

Robert Brian Goldrick, B.S., M.D. (Syd.), M.R.A.C.P. 15 March 1967.

Research Fellows:

Noel Haddon Fidge, B.Sc., Ph.D. (Adel.). 5 February 1970.

Neville Gordon Ardlie, B.S., M.D. (Adel.), Ph.D. (McM.). 25 October 1971.

Postdoctoral Fellow:

John Viner Lloyd, B.S., M.D. (Adel.). (To arrive.)

Burroughs Wellcome Research Fellow:

Errol Glen Wilmshurst, B.S., M.D. (Adel.), M.R.A.C.P. 17 September 1972.

Honorary Fellow:

Mark Lawrence Wahlqvist, B.Med.Sc., B.S., M.D. (Adel.), M.D. (Uppsala). 22 June 1972.

Professor:

EXPERIMENTAL PATHOLOGY

Frederick Colin Courtice, M.A., D.Phil. (Oxon.), D.Sc. (Syd.), M.R.C.S., F.R.A.C.P., Hon. F.R.A.C.S., F.A.A. 1 July 1958.

Senior Fellows:

Ian Kenneth Buckley, M.B., B.S., Ph.D. (Melb.). 1 January 1968.

Walter John Cliff, M.A., M.B., B.Chir. (Cantab.), D.Phil. (Oxon.). 1 July 1968; Fellow, 1 July 1965.

Fellow:

Max William Simpson-Morgan, B.V.Sc. (Syd.), Ph.D. 8 November 1968; Research Fellow, 1 March 1966; Scholar, 16 January 1961 to 15 January 1964.

Senior Research Fellow:

Gutta Ingeborg Schoeffl, B.A. (Reed Coll.), M.A., Ph.D. (Radcliffe Coll.). 30 September 1966.

Research Fellows:

Clive Eric West, B.Sc. (Syd.), Ph.D. (N.E.). 15 June 1968. (Until June 1973.)

Anthony Douglas Shannon, B.V.Sc., Ph.D. (Syd.). 25 March 1972.

Postdoctoral Fellow:

Nilmani Saha, B.Sc., M.B., B.S., Ph.D. (Calc.), M.D. (Panj. (I)). 31 March 1972.

HUMAN BIOLOGY

Acting Head of Department:

Professor F. J. Fenner (see Microbiology).

Professorial Fellow:

Stephen Vickers Boyden, B.Sc.(Vet.Sci.) (Lond.), Ph.D. (Cantab.), M.R.C.V.S., F.A.A. 1 January 1970; Professorial Fellow, Urban Biology Group, 24 June 1965; Professorial Fellow, Experimental Pathology, 10 May 1963; Senior Fellow, 15 March 1960.

Senior Fellow:

Robert Louis Kirk, M.Sc. (Birm.), D.Sc. (W. Aust.). 1 January 1970; Senior Fellow, Clinical Science, 1 October 1967; Senior Fellow, Genetics, 29 April 1967.

Senior Research Fellow:

Ernest Michael McDermid, M.Sc. (Leeds). 1 January 1970; Senior Research Fellow, Clinical Science, 29 April 1969.

Professor:

IMMUNOLOGY

Bede Morris, B.V.Sc. (Syd.), D.Phil. (Oxon.), F.A.A. 13 November 1970; Professorial Fellow, Experimental Pathology, 10 May 1963; Senior Fellow, 1 August 1958.

Senior Fellow:

Kevin John Lafferty, B.Sc. (Melb.), Ph.D. 1 January 1971; Senior Fellow, Experimental Pathology, 1 July 1968; Fellow, 13 November 1964; Research Fellow, 8 December 1962; Scholar, 4 March 1957 to 3 March 1960.

Senior Research Fellows:

Eric Philip Adams, B.Sc. (Lond.), Ph.D. 1 January 1971; Senior Research Fellow, Experimental Pathology, 25 September 1969; Scholar, 16 November 1961 to 4 December 1964.

Peter John McCullagh, M.B., B.S. (Melb.), D.Phil. (Oxon.), M.R.C.P. 1 July 1971; Research Fellow, 1 January 1971; Research Fellow, Experimental Pathology, 25 September 1966.

Postdoctoral Fellow:

Leonard Darrol Pearson, B.S., D.V.M. (Colorado State), Ph.D. (Calif.). 15 February 1972.

Florey Fellow:

George Gordon MacPherson, M.A., B.M., B.Ch. (Oxon.). 18 October 1971. (Until July 1973.)

Visiting Fellow:

Martin Joseph Murphy, B.S. (Regis Coll., Colorado), M.S., Ph.D. (N.Y.). 2 December 1971. (Until July 1973.)

MEDICAL CHEMISTRY

Professor:

Adrien Albert, B.Sc. (Syd.), Ph.D., D.Sc. (Lond.), F.R.I.C., F.R.A.C.I., F.A.A. 1 January 1949. (Until December 1972.)

Reader:

Desmond Joseph Brown, M.Sc. (Syd.), Ph.D., D.Sc. (Lond.). 11 August 1961; Senior Fellow, 1 July 1956; Fellow, 18 October 1949; Research Fellow, 1 April 1949.

Professorial Fellow:

Douglas Dalzell Perrin, M.Sc. (N.Z.), Ph.D., D.Sc. (Lond.), F.R.I.C., F.R.A.C.I. 14 May 1965; Senior Fellow, 11 December 1959; Senior Research Fellow, 11 April 1958; Research Fellow, 19 July 1957.

Senior Fellows:

Ernest Spinner, M.Sc.Tech., Ph.D., D.Sc. (Manc.), F.R.A.C.I. 10 March 1961; Senior Research Fellow, 16 September 1957.

Wilfred Louis Florio Armarego, Ph.D., D.Sc. (Lond.), F.R.I.C. 1 July 1967; Fellow, 11 October 1963; Research Fellow, 2 January 1960.

Gordon Bruce Barlin, M.Sc. (Syd.), Ph.D., F.R.A.C.I. 1 July 1969; Fellow, 11 December 1964; Research Fellow, 1 October 1960; Scholar, 15 March 1957 to 24 March 1959.

Micro-analyst (Fellow):

Joyce Eleanor Fildes, B.Sc. (Syd.), M.Sc., Ph.D. (Birm.). 14 July 1961; Research Fellow, 1 September 1956; Micro-analyst, 1 September 1950.

Senior Research Fellow:

John Henry Lister, B.Sc., Ph.D. (Lond.), F.R.I.C. 16 April 1972;
Research Fellow, 16 May 1955 to 15 May 1956.

Research Fellows:

William Pendergast, Ph.D. (Salf.). 15 January 1970.
Raghunath Prasad Agarwal, M.S. (Luck.), Ph.D. (Gorak.). 11
October 1970. (Until October 1973.)

Postdoctoral Fellow:

Hatsuhiko Mizuno, D.Pharm. (Tokyo). 27 October 1970. (Until
December 1972.)

MICROBIOLOGY

Professor and Head of Department:

Gordon Leslie Ada, D.Sc. (Syd.), F.A.A. 1 December 1968.

Professor:

Frank John Fenner, M.B.E., M.D. (Adel.), D.T.M. (Syd.),
Hon. M.D. (Monash), F.R.A.C.P., F.R.C.P., F.A.A., F.R.S.
29 July 1949.

Senior Fellows:

Peter Dodd Cooper, Ph.D., D.Sc. (Lond.). 12 September 1962.
Ian David Marshall, B.Agr.Sc. (Melb.), Ph.D. 1 July 1963;
Fellow, 3 May 1961; Research Fellow, 1 January 1956; Scholar,
16 March 1953.
William Graeme Laver, M.Sc. (Melb.), Ph.D. (Lond.). 1 July
1964; Fellow, 14 December 1962; Research Fellow, 15 Septem-
ber 1958.

Fellows:

Gwendolyn Marion Woodroffe, M.Sc. (Adel.), Ph.D. 11 Oct-
ober 1963; Research Fellow, 1 December 1958; Research
Assistant, 12 March 1951.
Alan John David Bellett, M.Sc. (Lond.), Ph.D. 8 December
1967; Research Fellow, 16 March 1963.
Robert Vincent Blanden, M.D.S. (Adel.), Ph.D. 28 February
1972; Research Fellow, 16 April 1971; Scholar, 7 June 1968.

Senior Research Fellow:

Alastair James Cunningham, B.V.Sc. (Q'ld.), Dip.Microbiol.
(Otago), Ph.D. 26 November 1971; Scholar, 13 January 1964
to 12 January 1967.

Research Fellows:

Christopher Richard Parish, B.Agr.Sc., Ph.D. (Melb.). 2 March
1969.

Jean Cameron Downie, A.B. (Radcliffe Coll.), M.Sc. (Edin.),
Ph.D. (Sheff.). 14 January 1972.

Peter Charles Doherty, M.V.Sc. (Q'ld.), Ph.D. (Edin.). 9 May
1972; Postdoctoral Fellow, 1 January 1972.

Postdoctoral Fellow:

John Sidney Oxford, B.Sc. (R'dg.), Ph.D. (Sheff.). 17 December
1970. (Until February 1973.)

Visiting Fellow:

Rolf Martin Zinkernagel, B.Sc., M.D. (Basle). (To arrive.)

Honorary Fellow:

Walter Reid Dowdle, M.S. (Alabama), Ph.D. (Maryland). 21
June 1972. (Until June 1973.)

PHYSICAL BIOCHEMISTRY

Professor:

Lawrence Walter Nichol, B.Sc., Ph.D. (Adel.). 1 January 1971;
Research Fellow, 14 December 1962 to 14 January 1966.

Professorial Fellow:

Hugh Albert McKenzie, M.Sc., Ph.D. (Syd.), F.R.A.C.I. 8 March
1963; Senior Fellow, 4 May 1959.

Senior Fellow:

Alexander Bilton Roy, Ph.D., D.Sc. (Edin.). 10 January 1963.

Fellow:

Peter Dalrymple Jeffrey, B.Sc., Ph.D. (Adel.). 21 June 1971.

Research Fellows:

Edwin Rupert Bruce Graham, M.Sc. (Melb.), Ph.D. (Lond.).
8 December 1967.

Peter Ronald Andrews, B.Sc., Ph.D. (Melb.). 15 November
1971.

Geoffrey David Smith, M.Sc., Ph.D. (Melb.). 6 January 1972.

Akhlaq Ahmed Farooqui, B.Sc. (Agra), M.Sc., M.Phil., Ph.D.
(Alig.). 14 August 1972.

Postdoctoral Fellow:

Geoffrey John Howlett, B.Sc. (Melb.). 1 March 1972. (Until
March 1973.)

Visiting Fellow:

Wieslaw Stanislaw Bleszynski, mgr., Dr. (Copernicus), habil.
(Gdansk). 1 February 1972. (Until January 1973.)

Honorary Fellows:

- John Reginald Dunstone, M.Sc., Dip.Ed. (Syd.), Ph.D. (Q'ld.).
 1 September 1969; Senior Fellow, 1 July 1967; Fellow, 12
 April 1965. (Until December 1972.)
- Mervyn Coombe Taylor, M.Sc. (Tas.). 16 April 1971; Electron
 Microscopist (Fellow), Experimental Pathology, 9 October
 1967; Electron Microscopist (Fellow), Electron Microscope
 Unit, 11 July 1960. (Until April 1973.)

PHYSIOLOGY

Professor and Head of Department:

- Peter Orlebar Bishop, M.B., B.S., D.Sc. (Syd.), F.A.A. 1 June 1967.

Professor of Neuropharmacology:

- David Roderick Curtis, M.B., B.S. (Melb.), Ph.D., F.A.A. 15
 April 1966; Professorial Fellow, 9 March 1962; Senior Fellow,
 1 July 1959; Fellow, 1 July 1957; Research Fellow, 1 July
 1956; Scholar, 16 February 1954.

Professorial Fellow:

- William Russell Levick, M.B., B.S., M.Sc. (Syd.). 14 July 1967.

Electronics Engineer:

- John Saxon Coombs, M.Sc. (N.Z.). 8 December 1961; Fellow,
 1 September 1952.

Senior Fellows:

- Russell Ian Close, M.Sc. (N.Z.), Ph.D. (Ill.). 1 July 1970; Fellow,
 1 July 1965; Research Fellow, 17 September 1960.
- Graham Allen Ross Johnston, M.Sc. (Syd.), Ph.D. (Cantab.).
 1 July 1972; Fellow, 12 July 1968; Research Fellow, 30
 September 1965.

Research Fellows:

- Geoffrey Herbert Henry, B.Sc., M.App.Sc. (Melb.). 23 January
 1968. (Until January 1973.)
- Brian Geoffrey Cleland, B.E. (N.S.W.), M.S., Ph.D. (North-
 western). 10 November 1968. (Until November 1973.)
- Marie Louise Uhr, B.App.Sc.(Med.Sc.) (Q'ld.), M.S. (Colorado),
 Ph.D. 1 April 1969; Scholar, 1 October 1963 to 11 November
 1966.
- Jonathan Stone, B.Sc.(Med.), Ph.D. (Syd.). 1 May 1970.
- Andris Karlis Tebecis, B.Sc. (Adel.), Ph.D. (Monash). 17 March
 1971.

Postdoctoral Fellows:

- Anthony Rowe Luff, B.Sc., Ph.D. (Hull). 29 January 1971.
 (Until January 1973.)

Antony Wilfred Goodwin, B.Sc.(Eng.) (Rand), M.S., Ph.D. (Cal. Tech.). 19 June 1972.
 Austin Hughes, M.A. (Oxon.), Ph.D. (Edin.), D.I.C. (Lond.). 17 August 1972.
 John Davies, B.Pharm., Ph.D. (Lond.). (To arrive.)
 Yutaka Fukuda, M.D., Ph.D. (Osaka). (To arrive.)

ANIMAL BREEDING ESTABLISHMENT

Fellow:

John Beaupeurt Smith, B.V.Sc. (Syd.), Ph.D. 15 August 1970; Scholar, 1 April 1964 to 31 March 1967.

BUSINESS MANAGER

William Henry Goddard, A.A.S.A. 1 May 1956; Purchasing and Finance Officer, Medical School, 1 January 1953; Senior Accounts Clerk, 13 April 1950; Accounts Clerk, 26 April 1949.

TECHNICAL MANAGER

Jack Byam Wight. 13 August 1956.

THE RESEARCH SCHOOL OF PHYSICAL SCIENCES

DIRECTOR

Professor Sir Ernest Titterton, C.M.G., M.Sc., Ph.D., Dip.Ed., F.R.S.A., F.A.A. 13 September 1968; Dean, 1 January 1966.

APPLIED MATHEMATICS

Professor:

Barry William Ninham, M.Sc. (W.Aust.), Ph.D. (Maryland). 13 April 1971.

Senior Fellow:

Allan Whitenack Snyder, B.S. (Pennsylvania State), S.M. (M.I.T.), M.S. (Harv.), Ph.D. (Lond.). 12 August 1972; Senior Research Fellow, 12 August 1971.

Research Fellows:

John William Perram, B.Sc. (Syd.), Ph.D. (Manc.). 22 June 1971.

Edgar Roderick Smith, B.Sc. (Melb.), Ph.D. (Lond.). 11 March 1972. (Until February 1973.)

Eytan Barouch, B.Sc. (Hebrew Univ. of Jerusalem), Ph.D. (N.Y.State). 1 July 1972.

Douglas John Mitchell, B.Sc. (Syd.), Ph.D. (N.S.W.). (To arrive); Postdoctoral Fellow, 11 January 1971.

Honorary Research Fellows (Queen Elizabeth II Fellows):

- Peter Richmond, B.Sc., Ph.D. (Lond.). 26 April 1971. (Until April 1973.)
 Colin Pask, B.Sc. (Lond.), Ph.D. (N.S.W.). 14 July 1971. (Until July 1973.)
 Mark Oliver Diesendorf, B.Sc. (Syd.), Ph.D. (N.S.W.). 6 October 1971. (Until October 1973.)
 Michael Barber, B.Sc. (N.S.W.), Ph.D. (Corn.). 28 August 1972.

ASTRONOMY

Professor and Director of the Observatory:

- Olin Jeuck Eggen, B.A., Ph.D. (Wis.). 30 June 1966.

Professor:

- Sidney Charles Bartholomew Gascoigne, M.Sc. (N.Z.), Ph.D. (Brist.), F.A.A. 10 July 1964; Reader, 3 January 1957; Research Associate, 21 March 1952.

Professorial Fellow:

- Alexander William Rodgers, B.Sc. (Syd.), Ph.D. 10 December 1971; Senior Fellow, 1 July 1966; Fellow, 14 July 1961; Research Fellow, 15 March 1957; Scholar, 15 March 1954.

Senior Fellows:

- Heinz Rudolf Friedrich Gollnow, Dr.phil. (Berl.). 1 July 1964; Fellow, 3 January 1957.
 Donald Seaforth Mathewson, M.Sc. (Q'ld.), Ph.D. (Manc.). 1 July 1969; Fellow, 19 September 1966.

Head of Time Service (Senior Fellow):

- Henry James McKellar Abraham, M.Sc. (N.Z.). 1 July 1957; Fellow, 3 January 1957.

Fellows:

- Antoni Przybylski, Mag.Fil. (Poznan), Dr.Sc.Tech. (E.T.H. Zürich), Ph.D. 3 January 1957; Scholar, 1 January 1951 to 31 December 1953.
 Donald Jack Faulkner, M.Sc. (Q'ld.), Ph.D. 9 August 1968; Queen Elizabeth II Fellow, 9 August 1965; Scholar, 11 March 1960 to 10 March 1963.
 Kenneth Charles Freeman, B.Sc. (W. Aust.), Ph.D. (Cantab.). 5 April 1970; Queen Elizabeth II Fellow, 5 October 1967.

Research Engineer (Fellow):

- Kurt Gottlieb, Dip.Ing. (Technical Univ. of Brno). 3 January 1957.

Research Fellows:

- Russell David Cannon, M.A., Ph.D. (Cantab.). 8 May 1969. (Until November 1972.)

- Michael Stanley Bessell, B.Sc. (Tas.), Ph.D. 29 September 1969;
Scholar, 2 March 1964 to 1 July 1967.
- Bruce Alrick Peterson, S.B. (M.I.T.), M.S., Ph.D. (Cal. Tech.).
28 October 1969.
- Robert Stewart Stobie, B.Sc. (Edin.), Ph.D. (Cantab.). 26 June
1970. (Until October 1973.)
- Ardon Robin Hyland, B.Sc. (Q'ld.), Ph.D. 14 August 1970;
Scholar, 9 March 1964 to 8 August 1967.
- Michael John Disney, B.Sc. (Manc.), Ph.D. (Lond.). 3 October
1970.
- Nessio Victor Vidal, B.Sc. (Hebrew Univ. of Jerusalem), M.Sc.,
Ph.D. (Tel Aviv). (To arrive.)

Honorary Professor:

- Sir Richard (van der Riet) Woolley, O.B.E., M.Sc. (Cape T.),
M.A., Sc.D. (Cantab.), Hon. LL.D. (Melb.), F.A.A., F.R.S.
1 January 1957; Professor, 5 July 1950 to 31 December 1956.

Honorary Fellow (Queen Elizabeth II Fellow):

- Dayal Tissa Wickramasinghe, M.A., Ph.D. (Cantab.). (To
arrive.)

ENGINEERING PHYSICS

Professor:

- Stephen Kaneff, B.E., Ph.D. (Adel.). 15 March 1971; Profes-
sorial Fellow, 1 June 1966.

Senior Research Engineers (Senior Fellows):

- John William Blamey, M.Sc. (Melb.). 1 July 1957; Fellow, 1
April 1953; Research Fellow, 1 January 1950.
- Edward Kenneth Inall, B.Sc., B.E. (Syd.), Ph.D. (R'dg.). 1 July
1960; Fellow, 1 July 1956; Research Fellow, 1 July 1955; Re-
search Fellow, Nuclear Physics, 1 August 1951.
- Richard Astley Marshall, B.Sc., B.E. (N.Z.), S.M. (Harv.). 1 July
1965; Fellow, 1 July 1960; Research Engineer, 3 April 1958.

Fellows:

- Arthur Hilary Morton, D.F.C., M.Sc. (W. Aust.), Ph.D. 1 July
1965; Research Fellow, 1 December 1958; Research Assistant,
13 April 1956; Scholar, 14 April 1953.
- Iain Donald Graham Macleod, B.E. (N.S.W.), Ph.D. (To arrive);
Research Fellow, 6 April 1970; Scholar, 4 April 1966.

Research Engineers (Fellows):

- Peter O'Neil Carden, M.E. (Q'ld.). 11 October 1957; Research
Fellow, 2 May 1955.
- Colin Francis Vance, M.Sc. (N.Z.). 9 March 1963.

Research Fellows:

- John Leonard Hughes, B.Sc., Ph.D. (Wales). 2 February 1971;
 Visiting Research Fellow, 10 January 1970.
 Murray John Hollis, B.Sc., Ph.D. (N.S.W.). 6 August 1971.
 Frank Edward Irons, B.Sc., Ph.D. (Syd.). 21 October 1971.
 James Douglas Strachan, M.Sc., Ph.D. (Br. Col.). 14 July 1972.
 John Philip Barber, B.Sc. (Sask.), Ph.D. 27 July 1972; Scholar,
 5 March 1968 to 6 March 1972.

Honorary Fellow:

- John Graham Fryer, B.Surv., Ph.D. (N.S.W.). 1 July 1972.
 (Until July 1973.)

GEOPHYSICS AND GEOCHEMISTRY

Professor of Geochemistry and Acting Head of Department:

- Alfred Edward Ringwood, M.Sc., Ph.D. (Melb.), F.A.A., F.R.S.
 10 March 1967; Personal Professor, 12 July 1963; Senior
 Fellow, 1 July 1960; Senior Research Fellow, 9 November
 1958.

Professor:

- John Conrad Jaeger, M.A. (Cantab.), D.Sc. (Syd.), F.A.A.,
 F.R.S. 1 January 1952. (Until December 1972.)

Reader:

- Mervyn Silas Paterson, B.E. (Adel.), Ph.D., Sc.D. (Cantab.). 1
 June 1956; Senior Research Fellow, 1 June 1953.

Professorial Fellow:

- Stuart Ross Taylor, M.A. (Oxon.), M.Sc. (N.Z.), Ph.D.
 (Indiana). 11 May 1962; Senior Fellow, 1 January 1961.

Senior Fellows:

- William Compston, B.Sc., Ph.D. (W. Aust.), F.A.A. 1 July 1963;
 Fellow, 23 January 1961.
 Michael William McElhinny, B.Sc., Ph.D. (Rhodes). 19 January
 1967.
 David Headley Green, M.Sc. (Tas.), Ph.D. (Cantab.). 1 July
 1968; Fellow, 1 July 1965; Research Fellow, 1 April 1962.
 Ian McDougall, B.Sc. (Tas.), Ph.D. 1 July 1968; Fellow, 1 June
 1964; Research Fellow, 22 August 1961; Scholar, 29 April
 1957 to 31 March 1960.

Fellows:

- John Robins Richards, M.Sc. (Melb.), Ph.D. (Dunelm.), F.R.A.C.I.
 12 August 1960; Research Assistant in charge of Mass Spectro-
 meter, 1 October 1957; Research Fellow, 1 October 1952.

John Rashleigh Cleary, M.Sc. (N.S.W.), Ph.D. 1 February 1968;
Research Fellow, 30 July 1965; Scholar, 19 February 1960 to
18 February 1963.

Kenneth John Muirhead, B.E., Ph.D. (Tas.). 1 July 1972;
Research Fellow, Engineering Physics, 1 November 1968.

Frederick Edward Mulhearin Lilley, B.Sc. (Syd.), M.Sc., Ph.D.
(W. Ont.). (To arrive.); Research Fellow, 21 November 1968.

Senior Research Fellows:

Pieter Albert Arriens, B.Sc. (W. Aust.), Ph.D. (Cantab.). 25
November 1969; Research Fellow, 25 November 1964.

Arthur Raymond Crawford, B.Sc. (Leeds), M.Sc. (Adel.), Ph.D.
21 March 1970; Scholar, 3 August 1964 to 31 July 1968.

Stephen Jervis Brent Reed, B.Sc. (S'ton.), Ph.D. (Cantab.). 23
October 1970.

Research Fellows:

Virginia McConn Oversby, A.B. (Wellesley Coll.), M.A., Ph.D.
(Col.). 10 October 1969.

Robert Cooper Liebermann, B.S. (Cal. Tech.), Ph.D. (Col.). 1
October 1970.

Brian Jerrald Jack Embleton, B.Sc. (Sheff.), M.Sc., Ph.D.
(N'cle. (U.K.)). 5 January 1971.

Ian Angus Nicholls, M.Sc. (Melb.), Ph.D. (Cantab.). 11 January
1971.

Thomas Jelstrup Fitch, B.Ch.E., M.S. (Minn.), Ph.D. (Col.). 1
January 1972.

James Norman Boland, M.Sc. (N.S.W.), Ph.D. (Monash). (To
arrive.); Postdoctoral Fellow, 1 January 1972; Research
Assistant, 3 February 1971.

Honorary Fellow:

Tervo Shirahase, M.Sc., Ph.D. (Tokyo Univ. of Education). (To
arrive.)

MATHEMATICS

Professor and Head of Department:

Bernhard Hermann Neumann, Dr.phil. (Berl.), Ph.D.
(Cantab.), D.Sc. (Manc.), F.A.A., F.R.S. 1 January 1962.

Professor:

Robert Edmund Edwards, B.Sc. (Manc.), Ph.D. (Lond.), F.A.A.
13 November 1970; Professorial Fellow, 19 September 1961.

Senior Fellows:

William Andrew Coppel, B.A. (Melb.). 13 May 1966; Fellow,
30 December 1961.

László György Kovács, M.Sc., Ph.D. (Manc.). 1 July 1967; Fellow,
2 October 1963.

- Sadayuki Yamamuro, B.Sc. (Tohoku), Ph.D. (Hokkaido). 11 August 1967; Senior Research Fellow, 6 April 1964.
 Michael Frederick Newman, M.Sc. (Syd.), Ph.D. (Manc.). 24 December 1970; Reader, Pure Mathematics, School of General Studies, 1 July 1967; Senior Lecturer, 1 July 1963; Lecturer, 12 June 1961.

Senior Research Fellows:

- Masako Izumi, B.Sc. (Tokyo Univ. of Science), M.Sc. (Tokyo Metropolitan). 16 August 1971.
 Kulumani Meenakshisundaram Rangaswamy, B.A., M.Sc., Ph.D. (Madr.). 27 May 1972.

Research Fellows:

- David McDougall, M.Sc. (N'cle. (U.K.)), Ph.D. (Lond.). 11 October 1969.
 Roger Michael Bryant, M.A., D.Phil. (Oxon.). 21 November 1969.
 Syed Afzal-ul Huq, M.Sc. (Rajsh.), Ph.D. (Lond.). 16 June 1970.
 John Staples, M.Sc. (Melb.), Ph.D. (Brist.). 23 December 1971.
 John Frederick Price, M.Sc. (Melb.), Ph.D. 24 May 1972; Scholar, 13 March 1967 to 12 March 1970.

Postdoctoral Fellows:

- John Llewellyn Hickman, B.A. (Adel.), M.Sc. (Flin.). 10 January 1972. (Until January 1973.)
 Barry James Gardner, B.Sc., Ph.D. (Tas.). 25 May 1972. (Until May 1973.)

Honorary Fellows:

- Shin-ichi Izumi, D.Sc. (Tohoku). 16 August 1971; Visiting Fellow, 1 January 1970; Senior Research Fellow, 19 January 1966.
 Kurt Mahler, Dr.phil.nat. (Fran.), D.Sc. (Manc.), F.A.A., F.R.S. 19 June 1972; Professor, 1 September 1963 to 25 September 1968.
 Edward Norman Dancer, B.Sc. 8 August 1972.

NUCLEAR PHYSICS

Professor and Head of Department:

- John Oswald Newton, M.A., Ph.D. (Cantab.), D.Sc. (Manc.). 12 January 1970.

Professor:

- Sir Ernest (William) Titterton, C.M.G., M.Sc., Ph.D., Dip.Ed. (Birm.), F.R.S.A., F.A.A. 1 September 1950.

Professorial Fellow:

Peter Bradley Treacy, M.Sc. (Syd.), Ph.D. (Cantab.). 10 November 1961; Senior Fellow, 1 July 1960; Fellow, 26 May 1958; Research Fellow, 1 December 1951.

Senior Fellows:

Dale Furneaux Hebbard, B.A., M.Sc., Ph.D. (Melb.). 1 July 1964; Senior Research Fellow, 1 July 1962; Research Fellow, 1 September 1960.
Trevor Richard Ophel, B.Sc. (Adel.), Ph.D. 1 July 1966; Fellow, 1 July 1962; Research Fellow, 25 September 1959; Scholar, 24 March 1955 to 9 June 1958.

Fellows:

Halcro Johnston Hay, M.Sc. (N.Z.), Ph.D. 1 July 1964; Research Fellow, 24 May 1961; Scholar, 20 February 1953 to 17 May 1956.
Raymond Harold Spear, M.Sc., Ph.D. (Melb.). 1 August 1964.
Jan Nurzynski, D.Sc. (Jagellonian). 1 July 1967; Research Fellow, 5 January 1964.

Research Fellows:

Scott Whineray, M.Sc. (Auck.), Ph.D. (McM.). 1 October 1968. (Until September 1973.)
Robin Alexander Ian Bell, M.Sc. (Well.), D.Phil. (Oxon.). 1 August 1970; Research Assistant, 8 August 1969. (Until July 1973.)
David Calvin Weisser, B.S. (City Univ. of New York), M.S., Ph.D. (Minn.). 4 October 1970. (Until October 1973.)
Derek Branford, B.Sc. (Hull), Ph.D., Dip.Adv. Studies in Science (Manc.). 1 October 1970. (Until October 1973.)
John Richard Leigh, B.Sc., Ph.D., Dip.Adv. Studies in Science (Manc.). 22 September 1971.
Stephen Mason Ferguson, B.S. (Montana State), M.S., Ph.D. (Wash.). 28 October 1971.
Charles Lawrence Hollas, B.S., Ph.D. (Texas). 30 December 1971.
Douglas Cromer Kean, B.Sc. (Glas.), Ph.D. (To arrive.)
Naomoto Shikazono, B.Sc., Ph.D. (Tokyo). (To arrive.)

A.I.N.S.E. Research Fellows:

Lorne Edwin Carlson, M.Sc. (Alta.), Ph.D. (Tor.). 14 September 1970. (Until September 1973.)
Kevin Howard Bray, B.Sc. (W. Aust.), Ph.D. 14 August 1972; Scholar, 28 January 1964 to 29 September 1967.

Visiting Fellow:

Arthur Robert Quinton, B.Sc. (Lond.), M.Sc. (W. Ont.), Ph.D. (Yale). 5 September 1972. (Until September 1973)

Honorary Fellow:

Silva Dusan Newton, B.A., Ph.D. (Belgrade). 1 October 1970.

Professor:

SOLID STATE PHYSICS

William Alan Runciman, D.Sc. (Edin.). 19 January 1971.

Senior Fellow:

Raymond Dingle, B.Sc., Ph.D. (W.Aust.). 11 February 1972.

Research Fellows:

Dipankar Sengupta, M.Sc. (Calc.), M.S., Ph.D. (Carnegie-Mellon). 26 July 1971.

Denis James Mackey, B.Sc., Ph.D. (Melb.). 30 September 1971.

Eric Raymond Vance, B.Sc. (Melb.), Ph.D. (Monash). 24 February 1972.

Postdoctoral Fellow:

John Terry Gourley, B.Sc., Dip.Ed. (Melb.), Ph.D. (Monash). 1 January 1972; Research Assistant, 29 March 1971. (Until December 1972.)

THEORETICAL PHYSICS

Professor and Head of Department:

Kenneth James Le Couteur, M.A., Ph.D. (Cantab.), F.A.A. 1 April 1956.

Professor:

David Chase Peaslee, A.B. (Prin.), Ph.D. (M.I.T.). 8 December 1961; Reader, 24 October 1959.

Professorial Fellow:

Frederick Charles Barker, M.Sc. (Melb.), Ph.D. (Birm.). 16 October 1964; Senior Fellow, 1 July 1960; Fellow, 1 November 1955; Research Fellow, 1 October 1949 to 13 September 1954.

Senior Fellows:

Kailash Kumar, B.Sc. (Agra), M.Sc. (Alld.), Ph.D. (McM.). 1 July 1967; Fellow, 28 February 1963; Visiting Fellow, 2 September 1960 to 20 August 1962.

Brian Albert Robson, M.Sc., Ph.D. (Melb.). 1 July 1968; Fellow, 1 October 1965; Numerical Analyst (Fellow), 1 January 1963; Research Fellow, 4 April 1960.

William Stewart Woolcock, B.Sc. (Q'ld.), Ph.D. (Cantab.). 1 July 1968.

Lindsay James Tassie, M.Sc., Ph.D. (Melb.). 1 December 1968; Reader, Theoretical Physics, School of General Studies, 1 July 1966; Senior Lecturer, 19 February 1962.

Rodney James Baxter, M.A. (Cantab.), Ph.D. 1 July 1972; Fellow, 12 September 1970; Research Fellow, 5 April 1965 to 8 August 1968; Scholar, 25 September 1961 to 1 September 1964.

Senior Research Fellow:

Jagadishwar Mahanty, B.Sc. (Utkal), M.Sc. (Calc.), Ph.D. (Maryland). 22 February 1972.

Research Fellows:

Csaba Antal Edvi-Illes, M.Sc., Ph.D. (Melb.). 9 September 1968.

Brian Graham Kenny, B.A., M.Sc. (Melb.), Ph.D. (Chic.). 26 September 1969.

Raymond Stuart Mackintosh, M.Sc. (Auck.), Ph.D. (Calif.). 3 April 1970.

Robert William Gibberd, B.Sc., Ph.D. (Adel.). 15 August 1971.

Reginald Thomas Cahill, B.Sc., Ph.D. (N.S.W.). 1 January 1972;

Temporary Lecturer, Theoretical Physics, School of General Studies, 19 January 1971. (Until December 1972.)

David Marcus Rosalky, B.Sc. (Syd.), Ph.D. 28 March 1972.

DIFFUSION RESEARCH UNIT

Senior Fellow:

Reginald Mills, M.Sc. (N.Z.), Ph.D. (Washington), D.Sc. 11 September 1964; Senior Fellow, Department of Particle Physics, 14 July 1961; Fellow, 25 February 1957; Research Fellow, 26 January 1954.

Fellow:

Lawrence Arthur Woolf, M.Sc. (W. Aust.), Ph.D. (N.E.). 1 January 1968; Research Fellow, 28 September 1966.

Research Fellow:

Robert Oliver Watts, B.Sc. (Lond.), Ph.D. 1 January 1970; Scholar, 25 August 1965 to 25 March 1968.

ELECTRON AND ION DIFFUSION UNIT

Senior Fellow and Head of Unit:

Robert Woodhouse Crompton, B.Sc., Ph.D. (Adel.). 1 March 1961.

Fellow:

Malcolm Thomas Elford, B.Sc., Ph.D. (Adel.). 1 July 1964; Research Fellow, 1 March 1961.

Research Fellow:

David Keith Gibson, B.Sc. (Melb.), Ph.D. 17 September 1967; Scholar, 1 March 1961 to 31 May 1964. (Until October 1972.)

Honorary Fellow:

Emeritus Professor Sir Leonard (George Holden) Huxley, K.B.E., M.A., D.Phil. (Oxon.), Hon.D.Sc. (Tas.), F.A.A. 1 January 1971; Visiting Fellow, 1 July 1968; Vice-Chancellor, 30 September 1960 to 31 December 1967.

LABORATORY MANAGER

Robert Denis Whittle. 28 March 1966.

THE RESEARCH SCHOOL OF SOCIAL SCIENCES

DIRECTOR

Professor W. D. Borrie, O.B.E., M.A., F.A.S.S.A. 9 August 1968.

DEMOGRAPHY

Professor and Head of Department:

John Charles Caldwell, B.A. (N.E.), Ph.D., F.A.S.S.A. 2 March 1970; Senior Fellow, 18 April 1967 to 18 November 1967; Fellow, 11 April 1964; Scholar, 2 March 1959 to 29 January 1962.

Professor:

Wilfred David Borrie, O.B.E., M.A. (N.Z.), F.A.S.S.A. 6 December 1957; Reader, 28 July 1952; Senior Research Fellow, 12 August 1949; Research Fellow, 1 January 1949; Research Fellow in the Social Sciences, 1 June 1947.

Professorial Fellow:

Charles Archibald Price, B.A. (Adel.), M.A., D.Phil. (Oxon.), F.A.S.S.A. 10 July 1964; Senior Fellow, 8 April 1960; Fellow, 1 August 1954; Research Fellow, 13 February 1952.

Senior Research Fellows:

Egon Cornelius Francis Gustav Kunz, dr.phil. (Bud.), M.A. (Syd.). 18 April 1968. (Until April 1973.)
Ladislav Theodor Ruzicka, C.Sc. (Charles). 22 August 1971.

Research Fellows:

Masri Singarimbun, B.A. (Gadjah Mada), Ph.D. 17 July 1968; Scholar, 11 November 1959 to 10 March 1964. (Until January 1973.)
Christabel Marion Young, B.A. (Adel.), Ph.D. 17 August 1970; Scholar, 6 March 1967 to 4 September 1969. (Until August 1973.)
Helen Ruth Elizabeth Ware, B.A. (Dunelm.), Ph.D. (Lond.). 14 May 1971; Research Assistant, 25 May 1970.

ECONOMIC HISTORY

Professor and Head of Department:

Noel George Butlin, B.Ec. (Syd.), F.A.S.S.A. 14 December 1962; Reader, 6 September 1954; Senior Research Fellow, 1 August 1951; Scholar, 24 July 1949.

Professor:

Sydney James Christopher Lyon Butlin, B.Ec. (Syd.), M.A., Litt.D. (Cantab.), F.A.S.S.A. 1 October 1971.

Professorial Fellow:

Alan Barnard, B.Ec. (Syd.), Ph.D. 13 November 1970; Senior Fellow, 1 July 1963; Fellow, 30 September 1960; Research Fellow, 1 October 1957; Scholar, 21 May 1952 to 13 August 1955.

Senior Fellow:

Bryan Douglas Haig, M.Com. (Melb.). 1 July 1966; Fellow, 10 September 1963.

Fellow:

Neville George Cain, B.Com. (Melb.), Ph.D. 14 December 1967; Senior Lecturer, Economic History, School of General Studies, 1 July 1964; Lecturer, 13 September 1962; Scholar, 3 February 1958 to 17 February 1961.

Research Fellows:

Kenneth Arthur Tucker, M.Com., B.A. (Auck.), Ph.D. (Lond.). 30 July 1972.

Jonathan James Pincus, B.Econ. (Q'ld.), A.M., Ph.D. (Stan.). 27 August 1972.

Visiting Fellow:

Takeshi Mori, B.A. (Waseda), M.A. (Washington State). 7 April 1972.

Honorary Fellow:

John Henry Kelly. 8 December 1971. (Until December 1972.)

ECONOMICS

Professor and Head of Department:

Trevor Winchester Swan, B.Ec. (Syd.). 1 July 1950.

Professor:

Fritz Henry Georg Gruen, B.A., B.Com. (Melb.), M.Sc. (Ag. Econ.) (Wis.), M.A. (Chic.), F.A.S.S.A. (To arrive.); Senior Fellow, 29 April 1963 to 31 January 1964; Senior Research Fellow, 16 February 1959.

Professorial Fellow:

Alan Ross Hall, B.Ec. (Syd.), Ph.D. (Lond.). 13 December 1968;
Senior Fellow, 8 April 1960; Fellow, 26 November 1953;
Research Fellow, 26 November 1951; Scholar, 1 March 1950.

Senior Research Fellow:

Robert George Gregory, B.Com. (Melb.), Ph.D. (Lond.). 1 Sep-
tember 1969.

Honorary Fellow:

Lawrence William Copithorne, B.Sc. (Alta.), M.A., Ph.D.
(Minn.). 30 August 1972. (Until August 1973.)

HISTORY

Professor and Head of Department:

John Andrew La Nauze, B.A. (W. Aust.), M.A. (Oxon.), Litt.D.
(Melb.), F.A.H.A., F.A.S.S.A. 1 January 1966; Research Fel-
low in the Social Sciences, 1 June 1947 to 31 May 1948.

Professor:

Douglas Henry Pike, D.Litt. (Adel.), F.A.H.A. 1 January 1964.

Reader (Australian History):

Laurence Frederic Fitzhardinge, B.A. (Syd.), M.A., B.Litt.
(Oxon.). 1 September 1950.

Professorial Fellow:

Robin Allenby Gollan, M.A. (Syd.), Ph.D. (Lond.), F.A.H.A. 10
April 1970; Senior Fellow, 8 April 1960; Fellow, 8 November
1957; Research Fellow, 5 January 1953; Scholar, 3 September
1948.

Senior Fellows:

Noel Bede Nairn, M.A. (Syd.). 18 September 1965.
Francis Barrymore Smith, M.A. (Melb.), Ph.D. (Cantab.),
F.A.H.A. 22 August 1966.

Fellows:

John Jude Eddy, B.A. (Melb.), D.Phil. (Oxon.). 8 November
1968; Research Fellow, 16 July 1968.
George Cameron Lee Hazlehurst, B.A. (Melb.), D.Phil. (Oxon.),
F.R.Hist.S. 22 August 1972.

Senior Research Fellow:

Owen Michael Roe, M.A. (Melb. and Cantab.), Ph.D. 1 Sep-
tember 1971; Scholar, 25 March 1957 to 24 March 1960. (Until
January 1973.)

Research Fellows:

John Arthur Merritt, M.A. (W. Aust.), Ph.D. 19 February 1971; Research Assistant, Economics, Research School of Pacific Studies, 2 January 1968 to 30 April 1968; Scholar, 23 March 1964 to 22 December 1967.
Hyland Neil Nelson, B.A., M.Ed. (Melb.). (To arrive.)

Research Associate (Research Fellow):

Michael Edward Hoare, B.A. (Hull), M.A. (Monash). 12 January 1969.

LAW

Professor:

Geoffrey Sawyer, B.A., LL.M. (Melb.), F.A.S.S.A., Barrister and Solicitor, Vic. 1 January 1950.

Professorial Fellow:

Samuel Jacob Stoljar, Ph.D., LL.D. (Lond.), Barrister-at-Law, Grays Inn. 14 December 1962; Senior Fellow, 21 September 1954.

Senior Fellows:

Joseph Gabriel Starke, Q.C., B.A., LL.B. (W. Aust.), B.C.L. (Oxon.), Barrister-at-Law, Inner Temple. 5 May 1961.
Graham Eric Parker, LL.M. (Adel. and Col.). 19 December 1970.

Research Fellows:

Peter Georg Sack, Ph.D. 16 April 1971; Research Assistant, 8 January 1971; Scholar, 8 May 1967.
Stephen Rodney Golder White, B.A. (Oxon.), Dip.Criminol. (Cantab.). (To arrive.)

Visiting Fellows:

Theodore Reginald Bredmeyer, LL.B., B.A. (W.Aust.), LL.M. (Lond.). 8 November 1971. (Until November 1972.)
Richard John Boyce, LL.B. (Minn.). (To arrive.)

PHILOSOPHY

Professor and Head of Department:

John Arthur Passmore, M.A. (Syd.), F.A.H.A., F.A.S.S.A. 9 May 1958; Reader, 1 February 1955.

Professor of Social Philosophy:

Percy Herbert Partridge, M.A. (Syd.), F.A.H.A., F.A.S.S.A. 1 August 1952.

Senior Fellows:

Stanley Isaac Benn, B.Sc. (Econ.) (Lond.), F.A.S.S.A. 1 October 1962.

Robert Richard Brown, B.A. (New Mexico), Ph.D. (Lond.). 1 July 1964; Fellow 10 March 1961; Research Fellow, 9 August 1956.

Francis Richard Routley, M.A. (N.Z. and Prin.). 15 January 1971.

Edwin Munson Curley, A.B. (Lafayette Coll.), Ph.D. (Duke) 1 July 1972; Fellow, 11 October 1968; Research Fellow, 28 June 1966.

Senior Research Fellow:

Malcolm Kenneth Rennie, B.A. (Syd.), M.A. (N.E.). 11 April 1972.

Research Fellows:

Geoffrey William Mortimore, B.A., B.Phil. (Oxon.). 26 November 1968.

John Barry Maund, B.A., M.Sc. (W. Aust.), Ph.D. (Cantab.). 22 December 1969.

POLITICAL SCIENCE

Professor and Head of Department:

Robert Stewart Parker, M.B.E., M.Ec. (Syd.), F.A.S.S.A. 10 May 1963; Reader, 1 March 1954; Research Fellow in the Social Sciences, 19 October 1947 to 24 February 1949.

Professor:

Arthur Lee Burns, M.A. (Melb.), F.A.S.S.A. 9 December 1966; Reader, 9 December 1960; Senior Fellow, 11 December 1959; Fellow, 20 December 1957; Research Fellow, 13 March 1955.

Professorial Fellow:

Thomas Henry Richard Rigby, M.A. (Melb.), Ph.D. (Lond.), F.A.S.S.A. 13 December 1963; Associate Professor, Russian, 1 January 1961; Senior Lecturer, 15 November 1954.

Senior Fellows:

Donald William Rawson, M.A., Ph.D. (Melb.). 12 November 1965; Senior Research Fellow, 3 July 1964; Fellow, 8 July 1960 to 13 February 1961; Research Fellow, 18 December 1957; Scholar, 2 September 1953 to 27 August 1956.

Peter Loveday, B.A., Ph.D. (Syd.). 20 November 1967.

Fellow:

Robert Farnham Miller, A.B. (Mich.), M.A., Ph.D. (Harv.). (To arrive.)

Senior Research Fellow:

John Addison Ballard, B.A. (Dartmouth Coll.), LL.B. (Harv.), M.A.L.D., Ph.D. (Tufts). 26 April 1972.

Research Fellow:

Nina Heathcote, B.A. (W. Aust.). 12 May 1967; Research Assistant, 10 September 1962.

Honorary Fellow:

Arch Thompson Dotson, A.B. (Transylvania Coll.), M.A., Ph.D. (Harv.). 18 September 1972.

SOCIOLOGY

Professor and Head of Department:

Frank Lancaster Jones, B.A. (Syd.), Ph.D. 14 July 1972; Senior Fellow, 1 July 1969; Fellow, 13 May 1966; Research Fellow, 1 October 1963; Scholar, 10 March 1959 to 15 March 1962.

Professor:

Leonard Broom, B.S., A.M. (Boston), Ph.D. (Duke), F.A.S.S.A. 4 December 1971.

Senior Research Fellows:

Frederick Edmund Emery, B.Sc. (W. Aust.), Ph.D. (Melb.), F.B.Ps.S. 26 July 1969.

Paul Duncan-Jones, M.A. (Cantab. and Oxon.). 1 July 1972.

Research Fellows:

Allan Matthew Bordow, B.Sc. (Wis.), M.A. (Col.), Ph.D. (Colorado State). 24 February 1971.

Patrick John McDonnell, A.B. (Col.), M.A., Ph.D. (Stan.). 26 June 1972.

STATISTICS

Professor and Head of Department:

Patrick Alfred Pierce Moran, M.A., Sc.D. (Cantab.), M.A. (Oxon.), D.Sc. (Syd.), F.A.A. 1 January 1952.

Professor:

Edward James Hannan, B.Com. (Melb.), Ph.D., F.A.A. 1 January 1971; Professor, Statistics, School of General Studies, 1 January 1959; Fellow, Statistics, Institute of Advanced Studies, 1 March 1956; Research Fellow, 12 October 1953.

Senior Fellows:

Daryl John Daley, B.Sc., M.A. (Melb.), M.A., Ph.D. (Cantab.). 23 June 1970.

Roger Edmund Miles, M.A., Ph.D. (Cantab.). 1 July 1972; Fellow, 9 July 1971; Senior Research Fellow, 7 March 1967.

Research Fellow:

Raymond Charles Boston, M.Sc., Ph.D. (Melb.), F.R.Met.S.
1 March 1971. (Until October 1972.)

Postdoctoral Fellow:

Richard Lewis Tweedie, M.A. (To arrive.)

EDUCATION RESEARCH UNIT

Professorial Fellow:

Donald Stuart Anderson, M.A., Ph.D. (Melb.). 13 January
1968.

Fellow:

David George Beswick, M.A. (Melb.), Ph.D. (Harv.). 6 Decem-
ber 1971; Senior Lecturer, Psychology, 1 January 1970;
Lecturer, 1 January 1967.

Research Fellows:

Grant Stewart Harman, M.A. (N.E.), Ph.D. 28 April 1969;
Scholar, 30 August 1965 to 29 August 1968.

Christopher Selby Smith, B.A. (Melb.), D.Phil. (Oxon.). 14
October 1969.

Gutta Lakshmana Rao, B.A. (And.), M.A. (Jab.), Ph.D. 20
March 1972; Scholar, 26 September 1968 to 24 December
1971.

HISTORY OF IDEAS UNIT

Professorial Fellow:

Eugene Kamenka, B.A. (Syd.), Ph.D., F.A.S.S.A. 8 November
1968; Senior Fellow, Philosophy, Institute of Advanced
Studies, 1 July 1966; Fellow, 16 October 1964; Research
Fellow (History of Ideas), 5 October 1962; Research Fellow,
5 October 1961; Scholar, 11 March 1955 to 14 December 1957.

Research Fellows:

Robert John Banks, B.A. (Syd.), M.Th. (Lond.), Ph.D. (Cantab.).
23 July 1969.

Hiram Pendleton Caton, M.A. (Chic.), Ph.D. (Yale). 29 Sep-
tember 1971.

URBAN RESEARCH UNIT

Senior Fellow:

Graeme Max Neutze M.Agr.Sc. (N.Z.), D.Phil. (Oxon.). 23
January 1967; Senior Lecturer, Economics, School of General
Studies, 1 July 1963; Lecturer, 9 July 1960.

Fellows:

- Patrick Nicol Troy, B.E. (W. Aust.), M.Tech. (N.S.W.), Dip.T.P. (Lond.). 8 May 1970; Research Fellow, 11 February 1966.
 Peter Firman Harrison, Dip. T.C.P. (Syd.), F.R.A.I.A. 26 April 1972; Senior Research Fellow, 27 November 1967.

Research Fellows:

- Kenneth Mervyn Johnson, M.Econ. (Q'ld.). 7 October 1969.
 John Campbell Pickett, B.A. (Hendrix Coll.), M.A., Ph.D. (Missouri). 5 February 1971.

HONORARY FELLOWS (NON-DEPARTMENTAL)

- Emeritus Professor Sir (William) Keith Hancock, K.B.E., M.A. (Oxon.), Hon. D.Litt. (Rhodes, Birm., Cape T. and Oxon.), Hon. Litt.D. (Cantab., Melb. and ANU), F.A.H.A., F.B.A. Sir Richard (John) Randall, B.Econ. (Syd.). 14 December 1971.

ARCHIVES OFFICER

- Robert Charles Sharman, B.A. (Tas.), F.L.A.A. 27 January 1970.

BUSINESS MANAGER

- Peter John Grimshaw. 29 July 1964.

THE RESEARCH SCHOOL OF PACIFIC STUDIES

DIRECTOR

- Professor D. A. Low, M.A., D.Phil. (To arrive.)

ANTHROPOLOGY AND SOCIOLOGY

Professor (Anthropology) and Head of Department:

- John Derek Freeman, Ph.D. (Cantab.), Dip.Anthrop. (Lond.). 13 October 1972; Professorial Fellow, 20 September 1957; Senior Fellow, 1 February 1955.

Senior Fellows:

- Marie Olive Reay, M.A. (Syd.), Ph.D. 1 July 1965; Fellow, 1 January 1963; Research Fellow, 9 October 1959; Scholar, 16 March 1953 to 2 April 1956.
 Gehan Eardley Thomas Wijeyewardene, B.A. (Ceyl.), M.A., Ph.D. (Cantab.). 28 April 1972; Senior Research Fellow, 1 July 1969; Research Fellow, 28 January 1964. (Until June 1972.)

Fellow:

- Andrew Jamieson Strathern, M.A., Ph.D. (Cantab.). 1 July 1970; Research Fellow, 12 February 1969. (Until January 1973.)

Research Fellow:

Jon Nicolas Peterson, B.A. (Cantab.). 15 April 1971.

Honorary Fellow:

Emeritus Professor William Edward Hanley Stanner, C.M.G., M.A. (Syd.), Ph.D. (Lond.), Hon.D.Litt., F.A.S.S.A. 1 July 1971; Professor, 10 July 1964 to 31 December 1970; Reader (Comparative Social Institutions), 1 September 1949. (Until June 1973.)

BIOGEOGRAPHY AND GEOMORPHOLOGY

Professor:

Donald Walker, B.Sc. (Sheff.), M.A., Ph.D. (Cantab.). 1 January 1969; Professorial Fellow (Geography), 14 October 1960.

Professorial Fellow:

Joseph Newell Jennings, M.A., Ph.D. (Cantab.). 1 October 1952.

Senior Fellow:

Nigel Morrith Wace, B.A. (Oxon.), Ph.D. (Belf.). 1 June 1971.

Fellows:

Gurdip Singh, M.Sc. (Panj. (I.)), Ph.D. (Luck. and Belf.). 23 June 1970.

James Maurice Bowler, M.Sc. (Melb.), Ph.D. 18 February 1971; Research Fellow, 28 November 1965.

Research Fellows:

Bruce Graham Thom, B.A. (Syd.), Ph.D. (Louisiana State). 22 November 1970.

Roger Fairbairn McLean, M.A. (N.Z.), Ph.D. (McG.). 10 March 1972.

Visiting Fellow:

Tom Michael Lampe Wigley, B.Sc., Ph.D. (Adel.). 25 September 1972. (Until August 1973.)

Honorary Fellows:

Warren Hassall Litchfield, B.Sc.Agr. (Syd.). 14 February 1964.

Helena Edith Reeve, B.Sc., Ph.D. (Leic.). 7 December 1971; Research Fellow, 7 September 1966.

Alec Baillie Costin, D.Sc.Agr. (Syd.). 10 April 1972.

ECONOMICS

Professor:

Heinz Wolfgang Arndt, M.A., B.Litt. (Oxon.), F.A.S.S.A. 1 December 1963; Professor of Economics, School of General Studies, 1 January 1951.

Professorial Fellows:

David Miles Bensusan Butt, M.A. (Cantab.). 14 August 1962.
 Ernest Kelvin Fisk, M.A. (Oxon.). 11 August 1967; Senior Fellow, 10 August 1962; Senior Research Fellow, 14 August 1960.

Audrey Gladys Donnithorne, M.A. (Oxon.). 1 January 1969.
 Ramaswamy Meenatchi Sundrum, B.A., B.L. (Rangoon), Ph.D. (Lond.). 15 October 1970.

Senior Fellows:

Peter John Lloyd, M.A. (N.Z.), Ph.D. (Duke). 1 January 1970; Senior Research Fellow, 2 January 1969.

David Harry Penny, B.A., M.Ec. (Adel.), M.A. (Stan.), Ph.D. (Corn.). 1 July 1970; Fellow, 13 October 1967; Senior Research Fellow, 28 August 1965.

Richard Tregurtha Shand, M.Sc.Agr. (Syd.), Ph.D. (Iowa). 1 July 1970; Fellow, 15 April 1966; Senior Research Fellow, 1 July 1965; Research Fellow, 30 November 1961.

Senior Research Fellows:

Thomas Henry Silcock, M.A., D.Phil. (Oxon.), Emeritus Professor, University of Singapore. 1 December 1966; Visiting Fellow, 2 September 1964 to 31 August 1966. (Until December 1972.)

Colin Hastings Barlow, M.B.E., B.Sc. (Lond.), M.S. (Corn.), Ph.D. (Aberd.). 8 January 1969.

Dan Maxwell Etherington, B.Econ. (Rhodes), M.S. (Corn.), M.A., Ph.D. (Stan.). 22 May 1972.

Research Fellows:

Hazel Varvara Richter, M.A. (Manc.). 8 November 1968; Research Assistant, 26 March 1962. (Until November 1973.)

Malcolm Lloyd Treadgold, B.Ec. (W. Aust.), B.Phil. (Oxon.), Ph.D. 23 July 1969; Scholar, 24 January 1966 to 23 May 1969.

Honorary Fellows:

Sir Leslie (Galfreid) Melville, K.B.E., B.Ec. (Syd.), Hon. LL.D. (Tor.), F.I.A., F.A.S.S.A. 4 May 1966; Vice-Chancellor, 1 November 1953 to 29 September 1960.

Maxwell Lynn Parker, M.Sc., Ph.D. (W.Aust.). 16 August 1971. (Until July 1973.)

Professor:

FAR EASTERN HISTORY

Wang Gungwu, M.A. (Malaya), Ph.D. (Lond.), F.A.H.A. 16 September 1968.

Professorial Fellow:

Wang Ling, B.A. (Nanking), Ph.D. (Cantab.). 13 December 1963; Associate Professor, Chinese, 1 January 1962; Senior Lecturer, 1 March 1958.

Senior Fellows:

Noel Barnard, B.A. (N.Z.), Ph.D., F.A.H.A. 1 July 1965; Fellow, 8 December 1961; Research Fellow, 1 August 1958; Scholar, 17 March 1952 to 26 October 1956.

Igor de Rachewiltz, Cert. Cin. (Oriental Inst. Naples), Ph.D., F.A.H.A. 1 July 1967; Fellow, 13 August 1965; Senior Lecturer, Oriental Studies, School of General Studies, 1 July 1963; Lecturer, 1 January 1960; Scholar, 12 March 1956 to 15 August 1959.

Hui-min Lo, B.A. (Yenching), Ph.D. (Cantab.). 13 October 1967; Senior Research Fellow, 13 November 1964; Research Fellow, 23 August 1963.

Fellows:

Andrew Fraser, M.A. (Oxon.), Ph.D. 5 April 1968; Research Fellow, 29 September 1965; Scholar, 14 April 1958 to 1 July 1960.

Stephen Arthur FitzGerald, B.A. (Tas.), Ph.D. 1 November 1971; Research Fellow, 2 June 1969; Scholar, 1 June 1966.

Research Fellows:

Colin Patrick Mackerras, B.A. (Melb.), M.Litt. (Cantab.), B.A., Ph.D. 22 August 1969; Scholar, 17 October 1966.

Leong Sow-Theng, A.B. (Brandeis), M.A., Ph.D. (Harv.). 29 July 1971.

Visiting Research Fellow:

Prescott Clarke, B.A. (Harv.), M.A. (Lond.). 14 February 1972. (Until February 1973.)

HUMAN GEOGRAPHY

Professor:

Ralph Gerard Ward, M.A. (N.Z.), Ph.D. (Lond.), F.A.S.S.A. 1 December 1971.

Professorial Fellow:

Godfrey James Rutherford Linge, B.Sc.(Econ.) (Lond.), Ph.D. (N.Z.). 8 May 1970; Senior Fellow, 1 July 1967; Fellow, 13 October 1961; Research Fellow, 5 March 1959.

Senior Fellow:

Peter James Rimmer, M.A. (Manc.), Ph.D. (Cant.). 11 December 1970; Fellow, 5 April 1968; Research Fellow, 1 February 1967.

Senior Research Fellow:

William Carey Clarke, M.A., Ph.D. (Calif.). 1 July 1971; Research Fellow, 19 July 1969.

Research Fellows:

Diana Rosemary Howlett, B.A. (Adel.), Ph.D. 2 December 1971; Research Assistant, New Guinea Research Unit, 1 March 1962 to 5 September 1962; Scholar, 9 February 1959 to 6 February 1962.

Herbert Charles Weinand, M.Sc. (Wis.). (To arrive.)

INTERNATIONAL RELATIONS

Professor and Head of Department:

Hedley Norman Bull, B.A. (Syd.), B.Phil. (Oxon.), F.A.S.S.A. 1 June 1967.

Professor:

John Donald Bruce Miller, M.Ec. (Syd.), F.A.S.S.A. 1 October 1962.

Professorial Fellow:

Thomas Bruce Millar, B.A. (W. Aust.), M.A. (Melb.), Ph.D. (Lond.). 8 March 1968; Senior Fellow, 1 July 1966; Fellow, 14 August 1964; Research Fellow, 25 June 1962.

Senior Fellow:

Robert John O'Neill, B.E. (Melb.), M.A., D.Phil. (Oxon.). 11 December 1969.

Fellows:

David Carlisle Stanley Sissons, M.A. (Melb.). 13 December 1963; Research Fellow, 20 March 1961.

James Thomas Geoffrey Jukes, M.A. (Oxon.). 7 November 1967.

John Lawrence Scott Girling, B.A. (Oxon.). 11 April 1969; Senior Research Fellow, 9 September 1966.

Senior Research Fellows:

William Andrew Charles Adie, M.A. (Oxon.). 30 December 1970.

Geoffrey Warner, M.A. (Cantab.). 19 October 1971.

Carsten Holbraad, B.Sc. (Econ.) (Lond.), D.Phil. (Sus.). 1 July 1972; Research Fellow, 5 January 1969.

Research Fellow:

Frederick Carl Teiwes, B.A. (Amherst Coll.), Ph.D. (N.Y.). (To arrive.)

Honorary Fellows:

Sir Alan (Stewart) Watt, C.B.E., B.A. (Syd.), M.A. (Oxon.). 18 July 1964; Visiting Fellow, 16 July 1962.

Robert George Neale, M.A., Dip.Ed. (Melb.). 18 May 1971. (Until May 1973.)

LINGUISTICS

Professor:

Stephen Adolphe Wurm, Dr.Phil. (Vienna). 8 March 1968; Professorial Fellow, Anthropology and Sociology, 1 July 1963; Senior Fellow, 1 January 1957.

Senior Fellow:

Donald Clarence Laycock, B.A. (N.E.), Ph.D. 1 July 1969; Fellow, 8 March 1968; Fellow, Anthropology and Sociology, 13 May 1966; Research Fellow, 8 May 1964; Scholar, 16 February 1959 to 15 April 1962.

Fellow.

Clemens Lambertus Voorhoeve, Dr. (Ley.). 8 March 1968; Research Fellow, Anthropology and Sociology, 20 November 1965.

Research Fellow:

Thomas Edward Dutton, M.A. (Q'ld.), Ph.D. 29 April 1969; Scholar, 6 December 1965 to 5 February 1969.

PACIFIC HISTORY

Professor and Head of Department:

James Wightman Davidson, M.A. (N.Z.), Ph.D. (Cantab.), F.A.S.S.A. 1 December 1950.

Professor:

Oskar Hermann Kristian Spate, M.A., Ph.D. (Cantab.), F.A.H.A., F.A.S.S.A. (To arrive.); Director, Research School of Pacific Studies, 1 October 1967; Professor, Human Geography, 17 March 1951.

Professorial Fellow:

Francis James West, B.A., Ph.D. (Leeds), Ph.D. (Cantab.), F.R.Hist.S., F.A.H.A. 13 November 1964; Senior Fellow, 10 July 1962; Senior Research Fellow, 10 July 1959; Research Fellow, 9 October 1952 to 7 February 1955.

Senior Fellow:

Deryck Anthony Scarr, B.A. (Exe.), Ph.D. 9 July 1971; Fellow, 8 November 1968; Research Fellow, 1 December 1964; Scholar, 2 November 1961 to 1 November 1964.

Fellows:

Walter Niel Gunson, M.A. (Melb.), Ph.D. 13 December 1968; Senior Research Fellow, 1 July 1967; Research Fellow, 22 May 1962; Scholar, 16 May 1955 to 16 August 1958.
Anthony John Stanhope Reid, M.A. (N.Z.), Ph.D. (Cantab.). 25 February 1970.

Research Fellows:

- Christine Elizabeth Wright, B.A. (Syd.), D.Phil. (Oxon.). 22 September 1968. (Until September 1973.)
 Peter Robert Corris, B.A. (Melb.), M.A. (Monash), Ph.D. 26 May 1971; Postdoctoral Travelling Fellow, 22 June 1970; Scholar, 20 January 1967 to 19 January 1970.
 Lance Castles, B.A. (Melb.). (To arrive.)

Visiting Fellows:

- Dorothy Félice Crozier, B.A. (Melb.). 6 September 1971. (Until December 1972.)
 John Richard Wharton Smail, M.A. (Harv.), Ph.D. (Corn.). 22 September 1971.

Honorary Fellow:

- Henry Evans Maude, O.B.E., M.A. (Cantab.). 20 March 1972; Professorial Fellow, 8 March 1963 to 18 November 1970; Senior Fellow, 10 July 1959; Senior Research Fellow, 1 January 1957.

PREHISTORY

Professor:

- Jack Golson, M.A. (Cantab.). 9 May 1969; Senior Fellow, Anthropology and Sociology, 1 July 1964; Fellow, 1 June, 1961.

Research Fellows:

- Leslie Montague Groube, B.A. (N.Z.), M.A. (Auck.). 9 May 1969; Research Fellow, Anthropology and Sociology, 28 February 1969.
 Rhys Maengwyn Jones, M.A. (Cantab.), Ph.D. (Syd.). 9 May 1969; Research Fellow, Anthropology and Sociology, 14 February 1969.
 Alan Gordon Thorne, M.A. (Syd.). 1 January 1971.
 Frederick James Allen, B.A. (Syd.), Ph.D. 3 March 1972; Scholar, 3 March 1966 to 2 May 1969.
 James Francis O'Connell, A.B., Ph.D. (Calif.). (To arrive.)

Honorary Fellow:

- Ronald Lewis Vanderwal, B.A. (Mich. State), M.A. (Wis.). 12 June 1972; Scholar, 1 April 1969 to 9 June 1972.

NEW GUINEA RESEARCH UNIT

Field Director (Senior Fellow):

- Ronald James May, M.Ec. (Syd.), D.Phil. (Oxon.). 21 February 1972.

Research Fellows:

- Anthonie Ploeg, LL.M. (Gron.), Ph.D. 22 December 1967;
 Scholar, 16 September 1959 to 15 September 1963.
 Tushar Kanti Mouluk, B.Sc.(Ag.) (Calc.), M.Sc., Ph.D. (Indian
 Agricultural Research Inst.). 21 April 1970. (Until October
 1973.)
 David Joseph Stone, M.A. (Auck.), Ph.D. 5 February 1971;
 Scholar, 6 March 1967 to 5 March 1970. (Until February
 1973.)
 Ian Morris Hughes, B.A. (Syd.). 8 July 1971; Scholar, 1 March
 1967 to 28 February 1971. (Until July 1973.)
 Ross Gregory Garnaut, B.A., Ph.D. 10 March 1972; Scholar, 16
 April 1968 to 27 July 1971.
 Ranier Lang, M.A. (Texas), Ph.D. (To arrive.); Scholar, 10
 October 1966 to 9 October 1970.

Honorary Research Fellow:

- Donald Dean Mitchell, A.B. (Stan.). (To arrive.); Visiting
 Research Fellow, 15 November 1971.

Visiting Research Fellow:

- Jill Nash Mitchell, B.A. (Minn.). (To arrive.); Honorary
 Research Fellow, 15 November 1971.

BUSINESS MANAGER

Peter John Grimshaw. 29 July 1964.

THE RESEARCH SCHOOL OF CHEMISTRY

DEAN

Professor D. P. Craig, M.Sc., Ph.D., D.Sc., F.R.I.C., F.R.A.C.I.,
 F.A.A., F.R.S. 1 August 1970.

Professor (Organic Chemistry):

Arthur John Birch, M.Sc. (Syd. and Manc.), D.Phil. (Oxon.),
 F.R.I.C., F.R.A.C.I., F.A.A., F.R.S. 1 August 1967.

Professor (Physical and Theoretical Chemistry):

David Parker Craig, M.Sc. (Syd.), Ph.D., D.Sc. (Lond.), F.R.I.C.,
 F.R.A.C.I., F.A.A., F.R.S. 25 August 1967.

Professor (Inorganic Chemistry):

Raymond Leslie Martin, M.Sc. (Melb.), Ph.D., Sc.D. (Cantab.),
 F.R.A.C.I., F.A.A. 1 August 1972.

Professorial Fellows:

Rodney Warren Rickards, B.Sc. (Syd.). 11 October 1968; Senior
 Fellow, 1 July 1967; Fellow, 1 July 1966.

Alan McLeod Sargeson, B.Sc., Ph.D., Dip.Ed. (Syd.). 11 October 1968; Senior Fellow, 1 July 1967; Fellow, Biological Inorganic Chemistry Unit, 30 September 1960; Research Fellow, 1 November 1958; Visiting Fellow, 1 February 1958.
Alan James Parker, B.Sc., Ph.D. (W. Aust.). 10 February 1969.
James Ferguson, M.Sc., Ph.D. (Syd.). 23 April 1970.

Senior Fellows:

Glen Bradley Robertson, B.Sc., Ph.D. (W. Aust.). 1 April 1969.
Martin Arthur Bennett, B.Sc., Ph.D., D.I.C. (Lond.), A.R.C.S. 1 July 1970; Fellow, 26 July 1967.
David Anson Buckingham, B.Sc. (N.Z.), Ph.D. 1 July 1970; Fellow, 1 July 1968; Research Fellow, 1 July 1966; Research Fellow, Biological Inorganic Chemistry Unit, 1 July 1965; Scholar, 7 March 1959 to 13 December 1961.

Fellows:

John Keith MacLeod, B.Sc., Ph.D. (Q'ld.). 1 September 1966.
Richard Bramley, M.Sc. (Syd.), Ph.D. (Lond.). 17 July 1967.

Analyst (Fellow):

Brenda Jean Stevenson, M.Sc. (N.S.W.). 1 July 1967.

Research Fellows:

David Charles Doetschman, B.S. (Northern Illinois), Ph.D. (Chic.). 24 February 1969.
Ian Barry Tomkins, B.Sc., Ph.D. (Melb.). 3 February 1970.
Edward Norman Cain, B.Sc., Ph.D. 8 February 1970; Temporary Research Assistant, Chemistry, School of General Studies, 15 May 1967 to 24 June 1967; Scholar, 3 February 1964 to 1 May 1967.
Keith Raymond Roby, B.Sc. (Syd.), Ph.D. (Monash). 24 February 1970. (Until March 1973.)
Peter Olaf Whimp, B.Sc. (N.Z.), M.Sc., Ph.D. (Well.). 17 April 1970.
Thakur Ranjit Singh, B.Sc., Ph.D. (Lond.). 27 September 1970. (Until September 1973.)
Robert Neville Johnson, B.Sc., Ph.D. (N.E.). 11 October 1970. (Until October 1973.)
Peter Geoffrey Lehman, M.Sc., Ph.D. (E. Anglia). 27 October 1970. (Until October 1973.)
John Cable, M.Pharm. (Syd.), Ph.D. (Br. Col.). 3 January 1971.
John Baldas, B.Sc., Ph.D. (Melb.). 3 February 1971.
Bryan Frederick Anderson, B.Sc., (N.Z.), M.Sc., Ph.D. (Auck.). 29 September 1971.
Leslie Franklin Warren, B.S., Ph.D. (Calif.) 23 January 1972.
John Walter Diggle. 9 April 1972.
Graeme John Gainsford, B.Sc., Ph.D. (Cant.). 31 August 1972.

- John Donald Bell, M.Sc. (Auck.), Ph.D. (Syd.). 9 September 1972.
 Michael Robert John Dack, B.Sc., Ph.D. (Hull). 1 September 1972.
 Ian Howe, B.A., Ph.D. (Cantab.). (To arrive.)
 George Anthony Osborne, B.Sc., Ph.D. (W. Aust.). (To arrive.)

Postdoctoral Fellows:

- Keith Moody, B.Sc. (Adel.), Ph.D. (Flin.). 22 September 1970. (Until January 1973.)
 Albert Wai-Hing Mau, B.S. (Baylor), M.S., Ph.D. (Mich.). 26 November 1970. (Until November 1972.)
 Gollagunta Nadamuni, M.Sc. (S. Vencat.), Ph.D. (Indian Inst. of Science). 13 March 1971. (Until March 1973.)
 Peter William Clark, B.Sc. (Q'ld.), Ph.D. (Indiana). 30 March 1971. (Until March 1973.)
 Werner Marty, Diplom. Chem., Dr.Sc.Techn. (E.T.H. Zurich). 30 March 1971. (Until March 1973.)
 Ian Keith Snook, B.Sc., Ph.D. (Tas.). 22 April 1971. (Until April 1973.)
 Elmars Rudolf Krausz, B.Sc., Ph.D. (Syd.). 1 June 1971. (Until June 1973.)
 Bat-Sheva Sommer, B.Sc. (Israel Inst. of Technology), M.Sc., Ph.D. (Weizmann Inst. of Science). 4 October 1971. (Until October 1973.)
 Michael Victor Taylor, B.Sc. (Brighton Coll. of Technology), Ph.D., D.I.C. (Lond.). 26 October 1971. (Until October 1973.)
 Malcolm Sidney Allen, M.Sc., Ph.D. (Manc.). 2 December 1971. (Until December 1973.)
 David John Thompson, B.Sc., Ph.D. (Nott.). 9 January 1972.
 Hans Ulrich Güdel, Dr.phil.nat. (Berne). 31 January 1972.
 Frank Richard Keene, B.Sc., Ph.D. (Adel.). 22 February 1972.
 John MacBean Harrowfield, B.Sc., Ph.D. (Melb.). 25 February 1972.
 Delma Ellen Cowley, M.Sc., Ph.D. (Q'ld.). 28 February 1972.
 Tova Feldmann, M.Sc., Ph.D. (Hebrew Univ. of Jerusalem). 21 March 1972.
 Brian Chauncy, B.Sc., Ph.D. (N.S.W.). 25 July 1972.
 Gavin Ross Hedwig, B.Sc., Ph.D. (Cant.). 21 August 1972.
 Trevor George Appleton, B.Sc., Ph.D. (Q'ld.). 22 August 1972.
 David Cook, B.Sc., Ph.D. (W. Aust.). 23 August 1972.
 Sandra Veronica Evans, B.Sc. (Lond.). (To arrive.)
 Philip Andrew Reynolds, B.A., D.Phil. (Oxon.). (To arrive.)

Visiting Fellows:

- Thomas Randle Brake Mitchell, B.Sc., Ph.D. (Belf.). 15 September 1972. (Until September 1973.)

Adrien Albert, B.Sc. (Syd.), Ph.D., D.Sc. (Lond.), F.R.I.C.,
F.R.A.C.I., F.A.A. (To arrive.); Professor, Medical Chemistry,
1 January 1949.

Honorary Fellow:

Wyona Marguerite Johnson, B.Sc., Ph.D. (Br. Col.). (To arrive.)

Honorary Fellow (Queen Elizabeth II Fellow):

Leo Radom, M.Sc., Ph.D. (Syd.). (To arrive.)

Honorary Research Fellow:

Theodore Strang Sorensen, B.Sc. (Alta.), Ph.D. (Wis.). 2
October 1971. (Until October 1972.)

LABORATORY MANAGER

John Stephen Harper, A.R.A.C.I. 2 September 1965; Head
Technician, 2 November 1959; Senior Technical Officer, 1
July 1958; Technical Officer, 1 July 1956; Laboratory Tech-
nician, 1 September 1955.

THE RESEARCH SCHOOL OF BIOLOGICAL SCIENCES

DIRECTOR

Professor D. G. Catcheside, M.A., D.Sc., F.A.A., F.R.S.
1 October 1967. (Until December 1972.)

DIRECTOR-ELECT

Professor Sir Rutherford (Ness) Robertson, C.M.G., Ph.D.
(Cantab.), D.Sc. (Syd.), Hon.D.Sc. (Adel., Tas. and Monash),
Hon.Sc.D. (Cantab.), F.A.A., F.R.S. (To arrive.)

DEVELOPMENTAL BIOLOGY

Professor:

Denis John Carr, B.Sc., Ph.D. (Manc.), Hon. M.Sc. (Melb.),
F.I.Biol. 1 January 1968.

Senior Fellows:

David Stuart Letham, M.Sc. (N.Z.), Ph.D. (Birm.). 20 Septem-
ber 1969.

Adrian John Gibbs, B.Sc., Ph.D. (Lond.), A.R.C.S. 23 June
1971; Senior Research Fellow, Microbiology, 1 July 1967 to
31 December 1969; Research Fellow, 30 September 1966.

Senior Research Fellow:

Peter Raymond Stewart, B.Agr.Sc., Ph.D. (Melb.). 12 February
1969.

Research Fellows:

- George Desmond Clark-Walker, M.Sc. (W. Aust.), D.Phil. (Oxon.). 30 November 1968.
 Ivan James Ryrie, B.Sc., Ph.D. (Syd.). 5 March 1972.
 Peter Brodie Goodwin, M.Sc.Agr. (Syd.), Ph.D. (Nott.). 3 July 1972; Research Officer, 24 July 1968.

Postdoctoral Fellows:

- Thomas Joseph Vincent Higgins, M.Agr.Sc. (N.U.I.), Ph.D. (Calif.), M.I.Biol. 25 October 1971.
 Peter Hugh Quail, B.Sc.Agr., Ph.D. (Syd.). (To arrive.)

Visiting Fellow:

- Frank Howes Gleason, B.S. (Trinity Coll., Hartford), Ph.D. (Calif.). 1 October 1971. (Until November 1972.)

Honorary Fellow:

- Stella Grace Maisie Carr, M.Sc. (Melb.). 1 January 1968.

ENVIRONMENTAL BIOLOGY

Professor:

- Ralph Owen Slatyer, D.Sc.(Agric.) (W. Aust.), F.A.A. 4 December 1967.

Senior Fellow:

- Ian Roy Cowan, M.Sc. (Lond.), Ph.D. (Nott.). 12 August 1968.

Fellow:

- Charles Barry Osmond, M.Sc. (N.E.), Ph.D. (Adel.). 11 April 1969; Research Fellow, 4 November 1967.

Research Fellows:

- William George Allaway, M.A. (Cantab.), Ph.D. (Lanc.). 12 May 1970.
 Barry John Macauley, M.Sc. (Melb.), Ph.D. (Syd.). 20 December 1971.
 Brian Rahr Trenbath, B.A., Dip.Agr.Sc. (Cantab.), M.Sc. (Wales). 20 December 1971.
 Patrice Ann Morrow, M.A. (Calif.), Ph.D. (Stan.). (To arrive.); Postdoctoral Fellow, 21 October 1971.
 Keith Forbes Walker, B.Sc. (Monash). (To arrive.)

Postdoctoral Fellows:

- Yvonne Joy Fripp, B.Sc.Agr. (Syd.), Ph.D. (Birm.). 6 December 1971.
 Susan Barker, B.Sc. (Lond.), M.Sc. (S'ton.), Ph.D. (Adel.). 21 February 1972.

Honorary Fellow (Queen's Fellow in Marine Sciences):

- Thomas John Andrews, B.Sc., Ph.D. (Q'ld.). 28 June 1972.

GENETICS

Professor and Head of Department:

John Langridge, M.Sc. (N.Z.), Ph.D. (Adel.). 25 May 1970.

Senior Fellows:

Ernest Howard Creaser, M.A., Ph.D. (Cantab.). 1 October 1967;
Senior Fellow, Genetics, John Curtin School of Medical
Research, 15 September 1965.

Colin Herbert Doy, B.Sc. (Wales), Ph.D. (Melb.), F.R.A.C.I.,
F.R.I.C. 1 October 1967; Senior Fellow, Genetics, John Curtin
School of Medical Research, 29 January 1966.

Research Fellows:

David John Bennett, B.Sc. (Leic.), Ph.D. (Birm.). 8 December
1967; Research Assistant, Genetics, John Curtin School of
Medical Research, 10 September 1965. (Until December 1972.)

John Baldwin, M.Sc. (Monash), Ph.D. (Br. Col.). 2 April 1971.

Wai Yean Chooi, B.Sc. (Malaya), Ph.D. (Adel.). 9 July 1971;
Postdoctoral Fellow, 25 January 1971.

Dorothy Margaret Halsall, B.Sc. (N.S.W.), Ph.D. 17 January
1972; Scholar, 31 January 1967 to 30 January 1970.

George Leslie Gabor Miklos, B.Sc., Ph.D. (Syd.). 1 April 1972.

Daniel Edward Dykhuizen, B.S. (Stan.), Ph.D. (Chic.). (To
arrive.)

Barry John Richardson, B.Sc., Ph.D. (N.S.W.). (To arrive.)

Visiting Fellow:

David Guthrie Catcheside, M.A. (Cantab.), D.Sc. (Lond.),
F.A.A., F.R.S. (To arrive.); Director, Research School of
Biological Sciences, 1 October 1967; Professor, Genetics, John
Curtin School of Medical Research, 21 July 1964.

Honorary Research Fellow (Queen Elizabeth II Fellow):

Barry Garth Rolfe, B.Agr.Sc., Ph.D. (Melb.). 5 October 1971.

NEUROBIOLOGY

Professor:

George Adrian Horridge, M.A., Ph.D., Sc.D. (Cantab.), F.A.A.,
F.R.S. 6 July 1969.

Fellow:

David Cartner Sandeman, M.Sc. (Natal), Ph.D. (St. And.).
1 October 1969.

Research Fellows:

- David Young, B.A. (Oxon.), Ph.D. (Wales). 23 August 1969.
 Leo Sosula, B.Med.Sc., Ph.D. (Adel.). 12 December 1969.
 Nicholas Mark Tyrer, M.A., Ph.D. (Cantab.). 28 July 1970.
 Eldon Edward Ball, A.B. (Stan.), Ph.D. (Calif.). 1 October 1971.
 Randolf Hermann Reinhart Menzel, Dr.phil.nat. (Fran.),
 habil. (T. H. Darmstadt). 25 June 1972.
 Jeffrey Lewis Denburg, B.A. (Amherst Coll.), Ph.D. (Johns H.).
 26 July 1972.
 Christopher Michael Bate, B.A. (Oxon.), Ph.D. (Cantab.). 28
 August 1972; Postdoctoral Fellow, 14 March 1972.
 Harald A. Nocke, Dr.rer.nat. (Cologne). (To arrive.)

Postdoctoral Fellows:

- Ian Anthony Meinertzhagen, B.Sc. (Aberd.), Ph.D. (St. And.).
 24 August 1971; Research Assistant, 1 July 1969.
 Akira Okajima, D.Sc. (Tokyo). 1 January 1972; Visiting Fellow,
 25 June 1971.

Visiting Fellow:

- Hendrik van Wilgenburg, drs. (Utrecht). (To arrive.)

Honorary Fellow:

- Gerald Edmond Silvey, B.S. (St. Mary's Coll., California), M.A.
 (Calif.), Ph.D. (Miami). (To arrive.)

Honorary Research Fellow:

- Jennifer Susan Altman, M.A. (Oxon.), Ph.D. (Lond.). 10 August
 1970.

POPULATION BIOLOGY

Professor:

- Bernard John, M.Sc., Ph.D. (Wales), D.Sc. (Birm.), F.I.Biol. 1
 September 1972.

Research Fellows:

- Elysse Margaret Craddock, B.Sc., Ph.D. (Syd.). (To arrive.)
 John Michael Dearn, B.Sc. (E. Anglia). (To arrive.)

MOLECULAR BIOLOGY UNIT

Professorial Fellow:

- Hiroto Naora, B.Sc. (Tokyo Univ. of Literature and Science),
 D.Sc. (Tokyo). 28 October 1968.

Research Fellow:

- Julian Francis Bertrand Mercer, B.Sc. 1 March 1972.

TAXONOMY UNIT

Senior Fellow:

Ruurd Dirk Hoogland, Dr. (Ley.). 12 September 1968.

Fellow:

Leslie Watson, M.Sc. (Manc.), F.L.S. 14 August 1969.

LABORATORY MANAGER

Donald Hardman, F.I.M.L.T. 10 March 1967; Head Technician, Genetics, John Curtin School of Medical Research, 1 August 1964.

THE SCHOOL OF GENERAL STUDIES

This list sets out the membership of the staff as at 30 September 1972, but also includes prospective members whose dates of appointment fell shortly thereafter. It has also been possible to include some later changes in senior staff.

The date immediately after a member's name is the date from which the present appointment took effect. If it is before 30 September 1960, it is the date on which appointment to the Canberra University College took effect.

DEPUTY CHAIRMAN OF THE BOARD OF THE SCHOOL OF
GENERAL STUDIES

Professor A. N. Hambly, M.Sc., Dip.Ed. (Melb.), F.R.A.C.I.
1 January 1972.

THE FACULTY OF ARTS

DEAN

Dr E. C. Fry, B.A., B.Ec., Ph.D., Dip.Ed.

APPLIED MATHEMATICS

(See Mathematics)

Professor:

CLASSICS

Richard St. Clair Johnson, M.A., Dip.Ed. (Syd.). 1 January 1962.

Reader:

Kenneth Leslie McKay, B.A. (Syd.), M.A. (Cantab.). 1 July 1965; Senior Lecturer, 13 May 1961.

Senior Lecturers:

Beryl Marie Rawson, B.A. (Q'ld.), M.A., Ph.D. (Bryn Mawr Coll.). 17 August 1964.

Evan Laurie Burge, B.A. (Q'ld.), M.A. (Oxon.), M.A., Ph.D. (Prin.). 1 July 1967; Lecturer, 15 September 1958.

Lecturers:

- Colin Max Mayrhofer, B.A. (W. Aust.), M.A. (Cantab.). 19 October 1966; Senior Tutor, 1 January 1966. (On leave in 1973.)
 Robert William Barnes, B.A. (Q'ld. and Oxon.), Th.M. (Harv.). 3 February 1969.
 Marjorie Ann Moffatt, B.A. (Melb.), Ph.D. (Lond.), M.A. 25 May 1970.

ENGLISH

Professor and Head of Department:

- Professor John Philips Hardy, B.A. (Q'ld.), M.A., D.Phil. (Oxon.). 14 August 1972.

Professors:

- Charles Ian Edward Donaldson, B.A. (Melb.), M.A. (Oxon.). 18 August 1969.
 Wesley Milgate, M.A. (Syd.), F.A.H.A. 9 July 1971; Reader, 1 January 1965.

Readers:

- Robert Francis Brissenden, M.A. (Syd.), Ph.D. (Leeds). 1 January 1969; Senior Research Fellow, Philosophy, Institute of Advanced Studies, 1 January 1966; Senior Lecturer, 1 January 1960; Lecturer, 3 January 1957.
 Fred Harry Langman, B.A. (Rand). 1 July 1970; Senior Lecturer, 1 July 1965; Lecturer, 15 January 1962.
 William Stanley Ramson, M.A. (N.Z.), Ph.D. (Syd.). 1 July 1971; Senior Lecturer, 1 July 1964; Lecturer, 17 May 1961. (On leave in 1973.)

Reader (Medieval Studies):

- Leslie John Downer, M.A. (Oxon.), B.A., LL.B. (Syd.). 1 July 1971; Senior Lecturer, Medieval Studies, 1 January 1971; Senior Lecturer, English, 11 January 1963.

Senior Lecturers:

- Alison Hope Hewitt, M.A. (Syd.), B.Com. (Melb.). 1 July 1965; Lecturer, 15 September 1958.
 Dorothy Green, M.A. (Syd.). 1 July 1967; Lecturer, 1 January 1965; Temporary Lecturer, 1 February 1964. (Until January 1973.)
 Joan Miriam Benn, M.A. (Lond.). 1 July 1972; Lecturer, 1 January 1965; Temporary Lecturer, 14 February 1964.

Lecturers:

- Anthony John Robbins, B.A. (Oxon.). 30 March 1970.
 William Alwyn Krebs, B.A. (Q'ld.), M.A. (Leeds). 14 December 1971.
 Graham George Cullum, B.A. (Syd.), M.A. (Lat.). 11 January 1972.

Senior Tutor:

Maureen Bettle, B.A., Cert. Educn. (Cantab.). 1 January 1972.

Tutor:

Michael John Wright, M.A. (Oxon.). 13 March 1972.

Professor:

FRENCH

Derek Percival Scales, B.A. (Syd.), D.U. (Paris). 15 January 1953.

Senior Lecturers:

Ethel Elizabeth Tory, B.A., Dip.Ed. (W. Aust.), D.U. (Paris). 1 July 1965; Lecturer, 16 February 1961.

James Alexander Grieve, B.A. (Belf.), M.A. 1 July 1971; Lecturer, 1 July 1964; Senior Tutor, 19 January 1962.

Graham James Halligan, M.A. (N.Z.), M.Litt. (Cantab.). 1 July 1971; Lecturer, 1 January 1964; Temporary Lecturer, 8 February 1963.

Lecturers:

Colin Godfrey Crisp, M.A. (N.Z.), D.U. (Aix-Marseille). 1 December 1964.

Viviane Mahé Smith, D.E.S. (Rennes). 1 January 1965; Temporary Lecturer, 1 January 1963.

Professor:

GEOGRAPHY

Basil Leonard Clyde Johnson, B.A., Ph.D. (Lond.), M.A. (Birm.). 1 September 1971.

Reader:

Edward Charles Chapman, M.A., Dip.Ed. (Syd.). 1 January 1970.

Senior Lecturer:

Lawrence Sternstein, B.S. (C.C.N.Y.), M.A. (Syr.), Ph.D. 15 January 1971; Scholar, 8 July 1961 to 30 July 1964.

Lecturers:

Neil Stuart McDonald, M.Sc. (N.E.). 29 January 1964.

John Michael Arthur Chappell, B.Sc. (N.Z.), M.Sc. (Auck.). 1 January 1967; Scholar, 3 May 1965.

Michael John Webber, B.A., Dip.Agric.Sci. (Cantab.), Ph.D. 21 January 1968; Scholar, 2 September 1964 to 2 July 1967. (Until December 1972.)

Joseph Keith Johnson, B.A. (Cantab.), Ph.D. 20 July 1970; Scholar, 2 February 1967 to 16 July 1970.

Part-time Lecturer:

William Percival Packard, M.A. (N.Z.). 10 January 1961.

Senior Tutor:

Margaret Patricia Mary Le Messurier Scrivenor, B.Sc. (Syd.),
Dip.Ed. (Melb.). 18 August 1969.

Tutor:

Raymond John Sloan, B.A. 1 January 1970. (Until December
1972.)

GERMANIC LANGUAGES

Professor:

Hans Kuhn, Dr.Phil. (Zür.). 12 January 1965.

Senior Lecturer:

Margaret Jean Stoljar, M.A., Ph.D. (Melb.). 1 July 1968; Lec-
turer, 1 January 1959.

Lecturers:

Myria Miriam Graneek, M.A., Dip.Ed. (Birm.). 5 June 1961.
(Until December 1972.)

Charles Henry Cull, B.A., Ph.D. (Q'ld.). 21 May 1964.

Ronald Frederick Holt, M.A., Dip.Ed. (Melb.), B.Ed. (Monash).
19 January 1969.

Temporary Lecturer:

Erich Burgstaller, Dr.Phil. (Vienna). 1 February 1971. (Until
December 1972.)

HISTORY

Professor and Head of Department:

Charles Murray Williams, B.A. (Melb.), D.Phil. (Oxon.). 1
February 1967.

Professor of Australian History:

Charles Manning Hope Clark, M.A. (Melb.), F.A.H.A.,
F.A.S.S.A. 6 July 1949.

Readers:

Donald William Archdall Baker, M.A. (Melb.). 13 August
1965; Senior Lecturer, 1 January 1957; Lecturer, 1 January
1951; Assistant Lecturer, 7 February 1949.

Eric Charles Fry, B.A., B.Ec., Dip.Ed. (Syd.), Ph.D. 1 July 1967;
Senior Lecturer, 1 February 1960; Scholar, 17 March 1952 to
16 March 1954.

Senior Lecturers:

Hector Gilchrist Kinloch, B.A. (Cantab.), M.A., Ph.D. (Yale).
31 August 1966.

Bruce Eric Kent, B.A. (Melb. and Oxon.), Ph.D. 1 July 1967; Lecturer, 1 January 1964; Temporary Lecturer, 1 February 1962.

Geoffrey Forrester Fairbairn, B.A. (Cantab.). 1 July 1968; Lecturer, 26 January 1961.

William Frederick Mandle, M.A. (Oxon.). 1 January 1969.

Ian Robert Hancock, B.A. (Melb.), B. Phil. (Oxon.). 1 January 1970.

Dorothy Lois Shineberg, B.A., Ph.D. (Melb.), M.A. (Smith Coll.). 13 December 1970; Senior Research Fellow, Pacific History, 13 December 1968; Research Fellow, 15 January 1964.

Geoffrey Raymond Bartlett, B.A. (Oxon.), Ph.D. 1 July 1971; Lecturer, 19 October 1964; Scholar, 5 October 1961 to 4 October 1964.

Lecturers:

Barbara Rose Penny, M.A. (Melb.). 1 January 1967; Temporary Lecturer, 1 January 1966; Senior Tutor, 1 February 1962; Research Assistant, 14 February 1955.

John Neylon Molony, S.T.L., J.C.L. (Pontificia Univ. Urbana), M.A., Ph.D. 1 January 1968; Senior Tutor, 1 January 1967.

John Douglas Ritchie, B.A., Dip.Ed. (Melb.), Ph.D. 1 January 1969; Scholar, 6 April 1966. (On leave in 1972.)

John Howard Tillotson, B.A., Dip.Ed. (Oxon.), Ph.D. 1 February 1969; Scholar, 1 October 1965.

Daphne Eileen Gollan, B.A. (Syd.), M.A. 1 January 1970; Senior Tutor, 10 February 1969; Tutor, 1 February 1966.

Charles Campbell Macknight, B.A. (Melb.), Ph.D. 1 January 1970; Scholar, 12 April 1966 to 11 December 1969.

Part-time Lecturer:

Geoffrey George Rossiter, D.F.C., B.A. (W. Aust.), M.A. (Oxon.). 1 June 1965.

Senior Tutors:

Judith Anne Jones, B.A., Dip.Soc.Stud. (Melb.). 1 January 1964.

Humphrey Denis McQueen, B.A. (Q'ld.). 19 January 1970.

William George Craven, B.A. (Melb.). 18 January 1971.

Leopold Sidney Launitz-Schurer, B.A. (Sir G. Wms.), M.A., Ph.D. (McG.). 26 January 1971.

Tutor:

Diana Jill Waterhouse, Dip.Ed. (Syd.), B.A. 1 January 1971.

LINGUISTICS

Professor:

Robert Malcolm Ward Dixon, M.A. (Oxon.), Ph.D. (Lond.). 20 July 1970.

Senior Lecturer:

Hermann Bluhme, Dr.Phil. (Mün.). 12 July 1965.

Karl Heinz Manfred Rensch, Dr.Phil. (Mün.). 1 July 1971;
Lecturer, 1 March 1969. (On leave in 1972.)

Lecturers:

John Harris, B.A. (Syd.), M.A. (Mich.). 30 January 1963.

John Michael Haiman, B.A. (Tor.), Ph.D. (Harv.). 26 July
1971.

APPLIED MATHEMATICS

MATHEMATICS

Professor:

Archibald Brown, M.A. (Glas.), Ph.D. (Cantab.). 1 February
1961.

Reader:

James Ewen Drummond, M.Sc. (N.Z.), B.A. (Cantab.). 11
November 1966; Senior Lecturer, 2 March 1959.

Senior Lecturers:

Stephen Michael Anselm Meggitt, M.A. (Oxon.), M.Sc. (Natal),
Ph.D. 1 July 1965; Lecturer, 7 January 1962.

Brian Davies, B.Sc., Ph.D. (N.S.W.). 1 January 1970.

Lecturer:

Haralds Freds Petersons, M.Sc., Ph.D. (Syd.). 29 May 1967.

Tutor:

Keith Sanders, B.Sc. (Syd.). 24 May 1971.

PURE MATHEMATICS

Professor:

To be appointed.

Senior Lecturers:

Peter John Cossey, B.Sc. (Q'ld.), Ph.D. 1 July 1970; Lecturer, 1
August 1968; Scholar, 10 February 1964 to 7 September 1966.

Martin Antony Ward, B.Sc. (Melb.), B.A., Ph.D. 1 July 1970;
Lecturer, 6 January 1966; Scholar, 4 March 1963. (On leave
in 1972.)

Robert Aitken Bryce, M.Sc. (Q'ld.), Ph.D. 4 August 1970; Re-
search Fellow, Mathematics, Institute of Advanced Studies,
8 December 1967; Scholar, 1 March 1965.

Neville Francis Smythe, B.Sc. (N.S.W.), Ph.D. (Prin.). 17 May
1972.

Carlton Christensen, M.Sc.Tech., Ph.D. (Manc.). 1 July 1972;
Lecturer, 15 September 1966.

Lecturers:

- Thomas Kenton Donaldson, B.S. (Kentucky), M.S., Ph.D. (Chic.). 5 June 1969.
 Allen Howe, B.Sc. (N.E.), Ph.D. 25 August 1969; Scholar, 4 March 1964 to 16 February 1967.
 James Murdoch McPherson, B.Sc., Ph.D. (N.S.W.). 18 May 1970.
 Richard James Loy, B.Sc. (Melb.), M.Sc., Ph.D. (Monash). 23 July 1970.

Temporary Lecturer:

- David McDougall, M.Sc. (N'cle. (U.K.)), Ph.D. (Lond.). 2 February 1972; Research Fellow, Mathematics, Institute of Advanced Studies, 11 October 1969. (Until December 1972.)

Senior Tutors:

- Lynette Myra Bloom, B.Sc. (Q'ld.), M.Sc. 15 March 1970; Tutor, 15 March 1968.
 David Beresford Shield, B.Sc., Dip.Ed. (Q'ld.), M.A. 15 February 1971; Senior Tutor, Applied Mathematics, School of General Studies, 8 September 1969; Tutor, 10 January 1969.

PHILOSOPHY

Professor:

- Peter Herbst, B.A. (Oxon.), M.A. (Melb.). 16 August 1962.

Associate Professor:

- Quentin Boyce Gibson, B.A. (Melb.), M.A. (Oxon.). 16 November 1959; Senior Lecturer, 1 January 1950; Lecturer, 5 February 1945. (On leave in 1973.)

Reader:

- William Joseph Ginnane, B.Phil. (Oxon.), M.A. (Melb.). 1 January 1968; Senior Lecturer, 1 February 1965.

Senior Lecturers:

- Kimon Lycos, B.A. (Syd.), B.Phil. (Oxon.). 1 March 1965.
 Richard James Campbell, B.D., M.A. (Syd.), D.Phil. (Oxon.). 1 July 1972; Lecturer, 7 November 1967.
 Thomas René Mautner, Fil. kand. (Lund), fil. lic. (Gothenburg). 1 July 1972; Lecturer, 10 January 1965.

Lecturers:

- Paul Thom, B.Phil. (Oxon.), M.A. (Syd.). 10 August 1967.
 Genevieve Mary Small, B.A. (Syd.), B.Phil. (Oxon.). 21 August 1967. (On leave in 1973.)
 Peter Roeper, B.Phil. (Oxon.), Dr.Phil. (Fran.). 26 March 1971.

Senior Tutors:

- Bobbie Kaye Gledhill, B.A. (Syd.). 16 January 1969.
 Elizabeth Anne Reid, B.Phil. (Oxon.), B.A. 17 January 1972; Research Assistant, 20 July 1970.

POLITICAL SCIENCE

Professor and Head of Department:

Gordon Stanley Reid, B.Com. (Melb.), Ph.D. (Lond.), Hon. Ph.D. (Adel.). 11 July 1970.

Professor:

Leslie Finlay Crisp, M.A. (Adel. and Oxon.). 2 May 1949.

Readers:

Leonard John Hume, M.Ec. (Syd.), Ph.D. (Lond.). 1 July 1965; Senior Lecturer, 13 February 1961.

John Herbert Grainger, M.A. (Cantab.). 13 March 1970; Senior Lecturer, 1 July 1964; Lecturer, 14 February 1962.

James Arthur Ainscow Stockwin, M.A. (Oxon.), Ph.D. 1 July 1972; Senior Lecturer, 14 March 1966; Lecturer, 9 March 1964; Scholar, 14 March 1960.

Senior Lecturers:

Ian Frederick Harvey Wilson, M.A. (Melb.), M.I.A. (Col.). 1 January 1966; Lecturer, 24 August 1961. (On leave in 1973 and 1974.)

Bruce John McFarlane, M.Ec. (Syd.). 1 July 1968; Lecturer, 2 March 1967; Research Fellow, Economics, Research School of Pacific Studies, Institute of Advanced Studies, 28 February 1963. (Until January 1973.)

Katharine Ogilvie West, M.A. (Melb.). 1 July 1968; Lecturer, 1 February 1960.

Thelma Anna Carmela Hunter, M.A. (Glas.), Ph.D. 1 July 1970; Lecturer, 1 January 1965.

Lecturers:

Robert John Cooksey, B.A. (Syd.). 1 April 1966.

Janette Woodward, Dip.Ed. (Syd.), B.Ec. 7 May 1970; Senior Tutor, 1 January 1967; Tutor, 1 January 1965.

Scott Cecil Bennett, B.A. (Tas.), M.A. 1 September 1970.

Hugh Norman Collins, B.A. (W. Aust.), A.M. (Harv.). 10 May 1971.

Senior Tutor:

Sally-Ann Ray, B.A. 1 July 1970.

Edward Murray Goot, B.A. (Syd.). 17 January 1972. (Until December 1972.)

Tutor:

Susan Claire Read, B.A. 2 February 1970.

PREHISTORY AND ANTHROPOLOGY

Professor (Prehistory):

Derek John Mulvaney, M.A. (Melb.), M.A., Ph.D. (Cantab.), F.A.H.A. 1 January 1971; Senior Fellow, Prehistory, Institute of Advanced Studies, 9 May 1969; Senior Fellow, Anthropology and Sociology, 21 January 1965.

Professor (Anthropology):

To be appointed.

Lecturer (Prehistory):

Peter Stafford Bellwood, M.A. (Cantab.). (To arrive.)

PURE MATHEMATICS

(See Mathematics)

RELIGIOUS STUDIES

Professor:

To be appointed.

RUSSIAN

Professor:

Reginald George Arthur de Bray, B.A., Ph.D. (Lond.). 17 September 1971.

Senior Lecturers:

Patrick Rosh Ireland, M.A. (Cantab.). 1 July 1966; Lecturer, 17 December 1958.

Margaret Blanche Travers, M.A. (Melb.), Dip.Slav.Stud. (Oxon.). 1 February 1968.

Lecturer:

Thomas Robert Jones, M.A. 2 February 1972; Scholar, 27 January 1970.

SOCIOLOGY

Professor:

Jerzy Zubrzycki, M.B.E., M.Sc.(Econ.) (Lond.), F.A.S.S.A. 17 March 1970; Professorial Fellow, Sociology, Institute of Advanced Studies, 9 July 1965; Senior Fellow, 14 April 1961; Fellow, Demography, 2 March 1959; Research Fellow, 13 December 1955.

Senior Lecturer:

Robert Gale Cushing, A.B. (Dartmouth Coll.), M.A., Ph.D. (Indiana). 1 June 1971.

Lecturers:

- Lawrence James Saha, A.B. (Notre Dame), S.T.L. (Greg.),
M.A., Ph.D. (Texas). 23 January 1971.
Harvey James Lally, B.Ed. (Q'ld.), M.A., Ph.D. (Minn.). 23
June 1972.
David Howe Turner, B.A. (Car.), Ph.D. (W. Aust.). 27 June
1972.
Alden Stephen Klodahl, B.A. (N.Y.), M.A. (Mich.). (To
arrive.)

Temporary Lecturer:

- Peter Egan Glasner, B.Sc. (Lond.). 4 September 1971.

Senior Research Fellow:

- Robert Philip Irwin, M.Sc., Ph.D. (Ill.). 5 November 1971.

Wool Board Fellow:

- Geoffrey Bradfield Fox, B.Rur.Sc., Ph.D. (N.E.). 1 January
1971. (Until June 1973.)

Senior Tutor:

- Winston Small, B.A. (Leic.), M.A. (W. Ont.). 1 January 1972.

THE FACULTY OF ASIAN STUDIES

DEAN

Professor E. S. Crawcour, M.A., Ph.D.

ASIAN CIVILIZATIONS

Professor:

- Arthur Llewellyn Basham, B.A., Ph.D., D.Lit. (Lond.), Hon.
D.Lit. (Kuruk.), F.S.A., F.A.H.A. 15 August 1965.

Readers:

- Saiyid Athar Abbas Rizvi, M.A., Ph.D., D.Litt. (Agra),
F.A.H.A. 1 July 1967; Senior Lecturer, 7 March 1966.
Helmut Hermann Ernst Loofs, Dip.Or.Lang. (Paris), Dr.Phil.
(Frib.). 1 July 1970; Senior Lecturer, 1 July 1964; Lecturer, 25
May 1961.

Senior Lecturers:

- Richard Henry Pitt Mason, M.A. (Cantab.), Ph.D. 1 July 1968;
Lecturer, 1 January 1964; Temporary Lecturer, 5 March 1962;
Scholar, 29 December 1958 to 28 February 1962.
Joseph Teresa Florent Jordens, Lic.Philos., Ph.D. (Catholic
Univ. of Louvain), Dip.Ed. (Melb.). 1 January 1970.
Kenneth Herbert James Gardiner, B.A., Ph.D. (Lond.). 1 July
1972; Lecturer, 27 April 1966.

Lecturers:

- John Godwin Caiger, B.A. (Syd. and Lond.), Ph.D. 13 August 1966; Scholar, 12 August 1963.
 Ann Louise Kumar, B.A.(Oriental Studies), Ph.D. 14 January 1972; Senior Tutor, 1 January 1971.
 Julia Chai-Yi Ching, B.A. (Coll. of New Rochelle), M.A. (C.U.A.), Ph.D. 1 June 1972; Temporary Lecturer, Chinese, 28 July 1969.

Senior Tutor:

- Ian Macleod Proudfoot, B.A. (Oriental Studies). 1 March 1972; Scholar, 1 June 1969.

CHINESE

Professor:

- Liu Ts'un-yan, B.A. (Peking), B.A., Ph.D., D.Lit. (Lond.), Dip.Ed. (H.K.), Hon.D.Litt. (Yeung-Nam), F.A.H.A. 13 May 1966; Reader, 1 July 1965; Senior Lecturer, 18 August 1962.

Reader:

- John David Frodsham, M.A. (Cantab.), Ph.D., F.A.H.A. 1 July 1968; Senior Lecturer, 6 August 1967; Scholar, 16 June 1958 to 21 May 1960. (On leave in 1973.)

Senior Lecturers:

- Richard Rafe Champion de Crespigny, B.A. (Melb.), M.A. (Cantab.), B.A., M.A.(Oriental Studies), Ph.D. 1 July 1970; Lecturer, 1 February 1965; Scholar, 20 February 1963.
 Pierre Ryckmans, LL.D., Ph.D. (Catholic Univ. of Louvain). 1 July 1971; Lecturer, 27 February 1970.

Temporary Lecturer:

- Colin Patrick Mackerras, B.A. (Melb.), M.Litt. (Cantab.), B.A., Ph.D. 5 May 1972; Research Fellow, Far Eastern History, 22 August 1969; Scholar, 17 October 1966. (Until November 1972.)

Visiting Fellow:

- Chiang Yee, B.Sc. (Nanking), Hon.L.H.D. (Hofstra), Hon.D.Litt., F.R.S.A., F.A.A.S., Professor Emeritus, Columbia University. 1 September 1972. (Until September 1973.)

Senior Tutors:

- Winifred Sun Chang, B.Ed. (National Taiwan), M.A. (Philippine Normal Coll.). 12 July 1969.
 Svetlana Dyer, M.S. (Georgetown), B.A. 13 December 1971.

INDONESIAN LANGUAGES AND LITERATURES

Professor:

Anthony Hearle Johns, B.A., Ph.D. (Lond.), F.A.H.A. 12 July 1963; Senior Lecturer, 1 August 1958.

Senior Lecturers:

Soebardi, M.A. (Indonesia), Ph.D. 12 February 1961.

Soewito-Santoso, M.A. (Indonesia), Ph.D. 1 July 1965; Lecturer, 26 February 1964.

Surjohudojo Supomo, M.A. (Gadjah Mada), Ph.D. 1 July 1972; Lecturer, 1 February 1967.

Lecturer:

David John Prentice, B.A. (Lond.), Ph.D. 13 February 1970; Scholar, 26 March 1965 to 26 April 1969.

Senior Tutor:

Yohanni Johns. 6 September 1965.

JAPANESE

Professor:

Edwin Sydney Crawcour, B.A. (Melb.), M.A. (Cantab.), Ph.D. 12 November 1965; Senior Fellow, Far Eastern History, 9 April 1965; Fellow, 1 January 1962; Research Fellow, 30 July 1958; Scholar, 1 December 1951 to 5 November 1954.

Reader:

Antonio Alfonso (Pardavila), M.A. (Mich.), Ph.Lic., D.Phil. (Pontifical Univ. of Comillas). 17 August 1966.

Lecturers:

Ayako Saito, B.A. (Kobe Women's). 16 March 1970.

Roger Stuart Pulvers, B.A. (Calif.), M.A. (Harv.). 10 August 1972.

Senior Tutor:

Hisazaku Kaneko, LL.B. (Chuo). 10 February 1969; Research Assistant, 28 December 1968.

SOUTH ASIAN AND BUDDHIST STUDIES

Professor:

Jan Willem de Jong, Dr.Phil. (Ley.), F.A.H.A. 1 July 1965.

Senior Lecturers:

Luise Anna Hercus, M.A. (Oxon.). 1 February 1969.

Akira Yuyama, B.A. (Osaka Univ. of Foreign Studies), M.A. (Tokyo), Ph.D. 1 July 1971; Lecturer, 1 January 1967; Research Assistant, 20 July 1965.

Lecturer:

Tissa Rajapatirana, M.A. (Ceyl.). 28 January 1966.

Lecturer (Hindi):

Richard Keith Barz, B.A. (Arizona), M.A., Ph.D. (Chic.). 24 January 1972.

THE FACULTY OF ECONOMICS

DEAN

Professor C. R. Heathcote, M.A., Ph.D.

Professor:

ACCOUNTING AND PUBLIC FINANCE

Russell Lloyd Mathews, B.Com. (Melb.), F.A.S.S.A. 1 January 1965.

Readers:

William Robert Charles Jay, B.A., B.Com. (Q'ld.). 13 April 1967; Senior Lecturer, 1 January 1965.

Peter Edwin Miles Standish, B.A., B.Ec. (Syd.). 1 July 1972; Senior Lecturer, 1 February 1965.

Senior Lecturer:

James Young Henderson, B.Ec. (Adel.), Ph.D. (Calif.). 22 April 1972; Lecturer, 29 June 1967.

Lecturers:

Harold Geoffrey Brennan, B.Ec. 17 October 1968; Scholar, 6 March 1967.

John Kenneth Henderson, B.A. (Macq.). 6 January 1972; Temporary Lecturer, 1 January 1971; Senior Tutor, 9 March 1970.

Ronald Geoffrey Bird, M.Ec. (Monash). (To arrive.)

Senior Tutor:

Ian Geoffrey Tilley, B.Com. (Q'ld.). 8 February 1971.

Tutors:

Peter Brendan Jubb, B.A. (Oxon.). 24 January 1972.

Douglas Norman Rolfe, B.Ec. (N.E.). 14 February 1972.

Professor:

ADMINISTRATIVE STUDIES

To be appointed.

Professor:

ECONOMIC HISTORY

Graham Shardalow Lee Tucker, B.Com. (Melb.), Ph.D. (Cantab.), F.A.S.S.A. 1 January 1961.

Reader:

Colin Forster, B.Com. (Melb.), Ph.D. 1 July 1966; Senior Lecturer, 1 January 1962; Lecturer, 1 January 1958; Scholar, 16 March 1954 to 15 March 1957.

Lecturers:

Selwyn Harcourt Cornish, B.Ec. (W. Aust.). 1 January 1968; Senior Tutor, 1 July 1967; Temporary Senior Tutor, 3 October 1966; Scholar, 21 September 1964.
 Robert Vincent Jackson, B.Ec. (Syd.), Ph.D. 8 January 1968.
 Alan Martina, B.Com. (Rhodes), M.A. (Essex). 15 November 1968.
 John Edward Stephen Gagg, B.A. (Manc.). 16 January 1969.
 Hector Macdonald Boot, B.Sc.(Econ.) (Lond.). 12 May 1970.

ECONOMICS

Professor (Applied Economics) and Head of Department:

Burgess Don Cameron, M.Ec. (Syd.), Ph.D. (Cantab.), F.A.S.S.A. 1 January 1958; Associate Professor, 15 November 1954; Senior Lecturer, 23 June 1950; Lecturer, 1 January 1949; Acting Lecturer, 1 January 1948; Assistant Lecturer, 4 February 1946.

Professors:

John David Pitchford, M.Com. (Tas.), Ph.D., F.A.S.S.A. 10 September 1965; Reader, 10 July 1964; Senior Lecturer, 1 February 1962; Scholar, 15 March 1954 to 15 March 1957.
 Stephen John Turnovsky, M.A. (Well.), Ph.D. (Harv.). 25 July 1972; Senior Fellow, Economics, Research School of Social Sciences, 26 April 1972.

Senior Lecturers:

Peter David Drysdale, B.A. (N.E.), Ph.D. 1 July 1969; Lecturer, 11 February 1966; Scholar, 11 February 1963.
 Clive Thomas Edwards, B.Com. (Melb.), Ph.D. 1 July 1969; Lecturer, 10 January 1965; Scholar, 10 January 1962.
 Donald William Stammer, M.A. (N.E.), Ph.D. 25 September 1970; Lecturer, 1 June 1968; Scholar, 1 June 1965. (Until December 1972.)
 John Rodney Niland, M.Com. (N.S.W.), Ph.D. (Ill.). 14 January 1972.

Lecturers:

Anthony Hewlings Chisholm, M.Ag.Sc. (N.Z.). 4 February 1966.
 John Graham Logan, B.Com. (N.S.W.). 1 January 1968.
 Owen Gordon Ponsonby Stanley, B.Ec. (Syd.), Ph.D. 1 January 1970; Scholar, 28 February 1966 to 27 February 1969.

- Neil John Vousden, B.A. 1 January 1971; Scholar, 29 September 1969.
 Clifford Walsh, B.Sc.(Econ.), M.Sc. (Lond.). 1 January 1971; Scholar, 3 March 1969.
 Susan Caroline Bambrick, B.Econ. (Q'ld.), Ph.D. 1 January 1972; Senior Tutor, 10 January 1969; Scholar, 10 January 1966.
 Richard Charles Cornes, M.Sc. (S'ton.). 16 May 1972.

Senior Tutors:

- Jillian Irene Coat, B.Ec. (Adel.). 7 April 1969; Research Assistant, 6 April 1959.
 Kevin Thomas Davis, B.Ec. (Flin.). 1 January 1972; Temporary Tutor, 25 January 1971. (Until December 1972.)
 Jane Adah Hirst, B.Ec. (Adel.). 1 January 1972; Scholar, 3 February 1970.
 Denis Warwick James, B.A. (N'cle. (N.S.W.)), M.Ec. 1 January 1972; Temporary Senior Tutor, 1 January 1971.
 Ian Warwick McLean, B.A. (Well.), Ph.D. (To arrive.); Tutor, 1 January 1972; Scholar, 1 July 1968.

STATISTICS

Professor (Mathematical Statistics) and Head of Department:

- Christopher Robin Heathcote, B.A. (W. Aust.), M.A. (Melb.), Ph.D. 9 July 1971; Reader, 1 July 1966; Senior Lecturer, 6 August 1962; Scholar, 5 March 1958 to 8 December 1960.

Professor (Econometrics):

- Richard Deane Terrell, B.Ec. (Adel.), Ph.D. 16 August 1971; Fellow, Economics, Research School of Social Sciences, 8 May 1970; Senior Lecturer, Statistics, School of General Studies, 19 March 1970; Lecturer, 28 June 1964.

Readers:

- Christopher Charles Heyde, M.Sc. (Syd.), Ph.D. 1 September 1968; Scholar, 1 June 1962 to 20 August 1964.
 Raymond Peter Byron, M.Ec. (W.Aust.), Ph.D. (Lond.). 10 December 1971; Fellow, Economics, Research School of Social Sciences, 8 May 1970; Research Fellow, 15 July 1969.

Senior Lecturers:

- Sleebe John, M.Sc. (Trav.), Ph.D. (Indian Statistical Inst.). 3 March 1966; Temporary Senior Lecturer, 16 March 1965.
 Paul Winer, B.Sc. (Rand). 1 July 1967; Lecturer, 16 December 1961.
 Eugene Seneta, M.Sc. (Adel.), Ph.D. 1 July 1970; Lecturer, 1 January 1966; Senior Tutor, 1 January 1965.

Raymond Austin Jarvis, B.E., Ph.D. (W. Aust.). 25 January 1971.

John Henry Tagney Morgan, B.A. (Cantab.), M.Sc. (Case Inst. Tech.). 1 July 1971; Lecturer, 1 January 1964; Senior Tutor, 11 October 1961.

Lecturers:

Peter Ninnes Creasy, B.Sc. (Adel.). 3 August 1970.

Desmond Francis Nicholls, B.Sc. (N.E.), M.Sc., Ph.D. 15 December 1971; Scholar, 15 June 1969.

Antonio Cantoni, B.E., Ph.D. (W.Aust.). 15 February 1972.

Thomas James Valentine, B.Ec. (Syd.), M.A., Ph.D. (Prin.). 9 August 1972.

Senior Tutors:

Anthony David Hall, B.Ec. (Adel.), M.Ec. 6 January 1972.

Arsine Victoria Peterson, S.B. (M.I.T.), M.S., Ph.D. (Cal. Tech.). (To arrive.); Tutor, 4 January 1972.

Tutor:

Helen Louise Anderson, B.Sc. (Q'ld.). 4 January 1972. (Until November 1972.)

CENTRE FOR RESEARCH ON
FEDERAL FINANCIAL RELATIONS

Director:

Professor R. L. Mathews, (see Accounting and Public Finance). 1 September 1972.

Deputy Director:

Mr W. R. C. Jay, (see Accounting and Public Finance). 1 September 1972.

Research Fellow:

To be appointed.

THE FACULTY OF LAW

DEAN

Professor P. S. Atiyah, B.C.L., M.A., Barrister-at-Law, Inner Temple, Barrister and Solicitor, A.C.T.

Robert Garran Professor:

Jack Edwin Richardson, B.A., LL.M. (Melb. and McG.), Barrister and Solicitor, Vic. 1 February 1962; Professor (Public Law), 21 November 1960.

Professors:

Harold Whitmore, LL.B. (Syd.), LL.M. (Yale), Barrister-at-Law, N.S.W., Barrister and Solicitor, A.C.T. 16 November 1965.

- Leslie Ronald Zines, LL.B. (Syd.), LL.M. (Harv.), Barrister-at-Law, N.S.W., Barrister and Solicitor, A.C.T. 13 April 1967; Reader, 1 July 1965; Senior Lecturer, 15 January 1962.
- Patrick Selim Atiyah, B.C.L., M.A. (Oxon.), Barrister-at-Law, Inner Temple, Barrister and Solicitor, A.C.T. 23 December 1969.

Readers:

- James Lindsay Reeve Davis, B.A., LL.B. (N.Z.), LL.B., Dip. Compar. Legal Stud. (Cantab.), Barrister and Solicitor, N.Z. and Vic. 12 November 1971; Senior Lecturer, 1 January 1968.
- Arthur David Hambly, LL.B. (Melb.), LL.M. (Harv.), Barrister and Solicitor, Vic. 12 November 1971; Senior Lecturer, 1 January 1966; Lecturer, 5 March 1962.

Senior Lecturers:

- Desmond O'Connor, B.A., LL.B. (Syd.), LL.M., Ph.D. (Lond.), Barrister-at-Law, N.S.W., Barrister and Solicitor, A.C.T. 19 February 1962.
- David Lewis Pape, B.Sc. (S.A.), LL.B. (Natal), Barrister-at-Law, Natal. 2 March 1964.
- John Dixon, B.Ec. (Adel.), LL.B. (Syd.), F.A.S.A., Barrister-at-Law, N.S.W., Barrister and Solicitor, A.C.T. 1 January 1968. (On leave in 1973.)
- William Eilif Holder, B.A., LL.B. (Melb.), LL.M. (Yale), Barrister and Solicitor, Vic. 30 October 1968.
- Donald Edward Harding, B.A., LL.B. (Syd.), LL.M. (Calif.), Solicitor, N.S.W., Barrister and Solicitor, A.C.T. 10 January 1969.
- Fiori Rinaldi, M.A. (W. Aust.), LL.B. (Q'ld.), Barrister-at-Law, Q'ld. 1 February 1969.
- Dennis Charles Pearce, LL.B. (Adel.), LL.M., Barrister and Solicitor, S.Aust. and A.C.T. 1 January 1970; Lecturer, 17 June 1968. (On leave in 1973.)
- Alice Erh-Soon Tay, Ph.D., Barrister-at-Law, Lincolns Inn and N.S.W., Barrister and Solicitor, A.C.T. 1 July 1970; Lecturer, 9 May 1967; Scholar, 16 June 1961 to 14 June 1964. (On leave in 1973.)
- John Francis Hookey, B.A. (Melb.), LL.B., Ph.D. (Lond.), Barrister-at-Law, N.S.W., Barrister and Solicitor, P.N.G. and A.C.T. 17 February 1971.

Lecturers:

- Gwilym John Davies, B.A., LL.M., Barrister-at-Law, N.S.W. 26 July 1967; Temporary Lecturer, 7 February 1966; Tutor, 5 March 1964.
- Robin Burnett, LL.B. (N.Z.), LL.M. (Well.), Barrister and Solicitor, N.Z. 1 January 1970.

Clive Turner, LL.B. (Birm.), Ph.D. 1 January 1970; Senior Tutor, 23 December 1968; Scholar, 25 March 1965 to 24 August 1968.

Colin John Houston Thomson, B.A., LL.M. (Syd.), Solicitor, N.S.W. 24 January 1972.

John Lester Goldring, B.A., LL.B. (Syd.), LL.M. (Col.), Solicitor, N.S.W., Barrister and Solicitor, P.N.G. and A.C.T. 12 June 1972.

Jonathan Carl Wilson, B.A. (Morningside Coll.), J.D. (Iowa). 18 July 1972.

Senior Tutor:

Robert Stanley Geddes, LL.M. 1 January 1972; Temporary Lecturer, 13 February 1969; Senior Tutor, 29 February 1968.

Tutor:

Helen Elizabeth Craig Gamble, LL.B. (To arrive.)

Director:

LEGAL WORKSHOP

Kevin Frederick O'Leary, LL.B. (Syd.), Barrister and Solicitor, N.S.W. 31 May 1971.

THE FACULTY OF SCIENCE

DEAN

Professor I. G. Ross, M.Sc., Ph.D., F.R.A.C.I.

BIOCHEMISTRY

Professor:

Lindsay Michael Birt, B.Agr.Sc., B.Sc., Ph.D. (Melb.), D.Phil. (Oxon.). 25 September 1967. (On leave in 1973.)

Senior Lecturers:

Lynn Dalgarno, B.Agr.Sc., Ph.D. (Melb.). 28 March 1968.

Fyfe Leonard Bygrave, B.Sc. (N.Z.), M.Sc. (Otago), Ph.D. (Q'ld.). 1 July 1969; Lecturer, 23 September 1968.

Maurice John Weidemann, B.Agr.Sc., Ph.D. (Melb.). 20 April 1970.

Lecturers:

Antony John Howells, B.Agr.Sc., Ph.D. (Melb.). 20 December 1967.

Ronald Colin Weir, B.Sc. (Adel.), Ph.D. (Lond.). 17 June 1969.

Honorary Fellows:

Constantinus Arnoldus Dymphna De Kort, Drs., Dr. (Catholic Univ. of Nijmegen). 20 July 1972. (Until July 1973.)

John Alexander Thomson, M.Sc., Ph.D. (Melb.). (To arrive.)

Senior Demonstrators:

Kenneth Clifford Reed, M.Sc. (Melb.). 30 January 1970; Demonstrator, 13 January 1969.

Trevor Douglas Rainforth, M.Sc. (Well.). 2 February 1970.

Demonstrator:

Mary Winifred Davey, B.Sc. (Q'ld.). 1 December 1969.

Professor:

BOTANY

Lindsay Dixon Pryor, D.Sc. (Adel.). 1 January 1959.

Reader:

Dugald Maxwell Paton, B.Sc., Ph.D. (Tas.). 1 July 1968; Senior Lecturer, 20 February 1961.

Senior Lecturers:

John Andrew Carnahan, M.Sc., Ph.D. (N.Z.). 2 January 1963.

Edward George Brittain, B.Sc., Ph.D. (Melb.). 1 July 1964; Lecturer, 16 October 1960.

Osman Roy Byrne, B.Sc. (Q'ld.), B.Sc., Ph.D. (Adel.). 1 July 1968; Lecturer, 27 February 1962 (Genetics).

Robert Bruce Knox, B.Sc. (Edin.), Ph.D. (Birm.). 1 July 1970; Lecturer, 8 June 1964.

Lecturers:

Graham Arthur Chilvers, B.Sc.Agr. (Syd.). 1 September 1961.

Malcolm Iain Whitecross, M.Sc. (Q'ld.), Ph.D. (Syd.). 18 March 1963.

Mervyn Jeffery Aston, M.Sc.Agr. (Syd.), Ph.D. (Calif.). 8 November 1965.

Postdoctoral Fellow:

Anne Elizabeth Allaway, B.A. (Cantab.), Ph.D. (Leeds). 1 January 1972. (Until December 1972.)

Senior Demonstrators:

Charles Ray Geard, B.Agr.Sc. (Melb.), M.Sc. (Tas.). 29 March 1968.

Helen Joan Hewson, B.Sc., Ph.D. (Syd.). 3 March 1969.

Robert James Seviour, B.Sc., Ph.D. (Bath). 27 January 1971.

CHEMISTRY

Professor and Head of Department:

Ian Gordon Ross, M.Sc. (Syd.), Ph.D. (Lond.), F.R.A.C.I. 15 February 1968.

Professor:

Arthur Neville Hambly, M.Sc., Dip.Ed. (Melb.), F.R.A.C.I. 1 January 1959.

Associate Professor:

Wilfrid Douglas Laidlaw Crow, M.Sc. (Syd.), Ph.D. (Sheff.), F.R.A.C.I. 1 July 1963; Senior Lecturer, 1 January 1960 (Organic Chemistry).

Readers:

James Howard Bradbury, D.Sc. (Melb.), Ph.D. (Birm.), F.R.A.C.I. 1 July 1965; Senior Lecturer, 5 January 1961 (Physical Chemistry).

Ronald Norman Warrener, M.Sc. (Syd.), Ph.D. (N.S.W.). 1 July 1971; Senior Lecturer, 1 July 1966; Lecturer, 13 February 1962 (Organic Chemistry).

Senior Lecturers:

Naida Sugden Gill, M.Sc., Ph.D. (Syd.). 1 July 1962; Lecturer, 1 July 1961 (Inorganic Chemistry).

John Arthur Broomhead, M.Sc. (Syd.), Ph.D. 17 January 1966; Scholar, 6 March 1958 to 6 February 1961.

Dereham Lloyd Scott, B.Sc., Ph.D. (Tas.). 1 July 1968; Lecturer, 20 February 1964 (Inorganic Chemistry).

Neil James Daly, B.Sc., Ph.D. (W. Aust.). 1 July 1970; Lecturer, 15 December 1964.

John Alan Elix, B.Sc., Ph.D. (Adel.). 1 July 1971; Lecturer, 28 July 1967. (On leave in 1973.)

Benjamin Klaus Selinger, M.Sc. (Syd.), Dr.rer.nat. (T.H. Stuttgart). 1 July 1971; Lecturer, 1 January 1966; Temporary Lecturer, 15 January 1965.

Malcolm Rasmussen, M.Sc., Ph.D. (Syd.). 1 July 1972; Lecturer, 5 September 1968.

Postdoctoral Fellows:

Michael Nicholas Paddon-Row, B.Sc. (Lond.), Ph.D. 11 May 1970. (Until December 1972.)

Vishwanath Ganpat Kulkarni, B.Sc., M.Sc.Tech. (Bom.), Ph.D. (Leeds). 5 July 1971. (Until July 1973.)

Visiting Fellow:

Joel Wolcott Russell, B.A. (Northwestern), Ph.D. (Calif.). 2 July 1972. (Until August 1973.)

Honorary Fellow:

Stewart Jeffery Strickler, B.A. (Coll. of Wooster), Ph.D. (Florida State). 6 September 1972. (Until September 1973.)

Senior Demonstrators:

Meta Sterns, M.Sc., Ph.D. (Melb.). 9 March 1962.

John James Foster, B.Sc. (Syd.), M.Sc. 16 August 1967; Research Assistant, 29 April 1963.

- Kevin Harry John Bryant, B.Sc. (Adel.), M.Sc. 5 April 1968;
Temporary Senior Demonstrator, 1 March 1968; Research
Assistant, 11 October 1963.
Henri Joseph Jean-Baptiste Martel, B.Sc. (Laval), M.Sc. (Br.
Col.). 31 March 1969.

FORESTRY

Professor:

- John Derrick Ovington, Ph.D., D.Sc. (Sheff.), F.F.S., F.I.Biol.
15 April 1965.

Reader:

- Leslie Thornley Carron, M.Sc.For. (Q'ld.), Dip.For. (Oxon.),
Ph.D. 1 July 1969; Senior Lecturer, 8 February 1965.

Senior Lecturers:

- Ross Garth Florence, M.Sc.For. (Q'ld.), Ph.D. (Syd.). 1 July
1968; Lecturer, 18 August 1965.
William Aloysius Heather, B.Sc.For., M.Sc. (Syd.), Ph.D. 1
July 1968; Lecturer, 1 January 1965. (On leave in 1973.)
Eric Peter Bachelard, B.Sc.F. (Melb.), M.F., Ph.D. (Yale). 1
July 1969; Lecturer, 3 September 1965.
Michael Thomas Tanton, B.Sc., Ph.D., D.I.C. (Lond.), A.R.C.S.
1 February 1970; Lecturer, 26 August 1965.
Ian Stewart Ferguson, B.Sc.F. (Melb.), M.F., D.For. (Yale). 1
March 1971.
Kenneth William Groves, B.Sc. (Wales), M.Sc. 1 July 1971;
Lecturer, 17 April 1967.
Kenneth Ronald Shepherd, B.Sc.For. (Syd.), Ph.D. (Melb.). 1
July 1971; Lecturer, 1 December 1967. (On leave in 1973.)
Donald McLean Stodart, B.E. (Adel.), M.S. (Texas). 1 July 1971;
Lecturer, 17 April 1967.

Lecturers:

- Edwin Dodds Parkes, B.Agr.Sc. (N.Z.), M.Agr.Sc. (Cant.). 26
July 1968; Senior Demonstrator, 22 November 1966.
Geoffrey Burke Wood, B.Sc.For. (Q'ld.), Dip.For. (Oxon.), Ph.D.
19 February 1970; Temporary Lecturer, 27 May 1968; Scholar,
15 March 1965 to 24 May 1968.
Peter Raglan Stevens, M.Agr.Sc. (N.Z.), Ph.D. (Cant.). 1 Decem-
ber 1970; Senior Demonstrator, 14 March 1967.

Part-time Lecturer:

- David Michael Griffin, M.A., Ph.D., Sc.D. (Cantab.). 15 Janu-
ary 1971.

Research Fellow:

- James John Reilly, B.Sc.For., B.Com. (Q'ld.). 4 May 1972.

Western Australian Forest Service Postdoctoral Fellow:

Bryan Harry Pratt, B.Sc. (Syd.), B.Ag.Sc., Ph.D. (Adel.). 11 March 1968.

Senior Demonstrators:

Michael Urquhart Slee, M.A. (Oxon.), M.Sc. 11 August 1968; Research Assistant, 8 March 1968.

John Charles Gripper Banks, B.Sc.(Forestry). 6 November 1969.
Roger Graham Buick, B.Sc. (Cant.), B.Sc.(Forestry). 27 January 1971.

Terence John Blake, B.Sc.(For.) (Syd.), M.F. (Yale). 15 March 1971.

GEOLOGY

Professor:

David Alexander Brown, M.Sc. (N.Z.), Ph.D., D.I.C. (Lond.). 2 February 1959.

Readers:

Kenton Stewart Wall Campbell, M.Sc., Ph.D. (Q'ld.). 1 July 1964; Senior Lecturer, 1 March 1962.

Keith Alan Waterhouse Crook, M.Sc. (Syd.), Ph.D. (N.E.), B.A. 1 July 1970; Senior Lecturer, 1 July 1964; Lecturer, 1 May 1961.

Charles Eric Bruce Conybeare, M.Sc. (Alta.), Ph.D. (Washington State). 1 July 1972; Senior Lecturer, 1 January 1964.

Senior Lecturers:

Michael John Rickard, B.Sc., Ph.D., D.I.C. (Lond.). 1 July 1965; Lecturer, 18 January 1963.

Bruce William Chappell, M.Sc. (N.E.), Ph.D. 1 July 1968; Lecturer, 1 February 1960.

Richard Anthony Eggleton, B.Sc. (Adel.), Ph.D. (Wis.). 1 July 1970; Lecturer, 1 February 1966.

John Angus McDonald, M.Sc. (Manit.), Ph.D. (Wis.). 28 June 1971.

Senior Demonstrators:

John Leon Funk, B.S., M.A. (Missouri), D.I.C. (Lond.). 21 September 1969.

Graham Murray Taylor, M.Sc. (N.S.W.). 1 December 1970; Demonstrator, 14 March 1969.

Ian Ernest Smith, B.Sc. (Well.). 15 March 1971.

MATHEMATICS

(See Faculty of Arts)

PHYSICS

Professor and Head of Department:

Stanley Hinds, B.Sc., Ph.D. (Liv.). 23 December 1969.

Professor:

David Noel Ferguson Dunbar, M.Sc. (N.Z.), Ph.D. (Melb.).
1 February 1959.

Readers:

Allan John Mortlock, M.Sc. (Syd.), Ph.D. (R'dg.), F.A.I.P. 1
July 1968; Senior Lecturer, 15 February 1961.

Raymond John Stalker, B.Sc., M.Eng.Sc., Ph.D. (Syd.). 1 July
1968; Senior Lecturer, 1 July 1964; Lecturer, 18 April 1962.

Senior Lecturers:

Laurie Oakley Brown, M.Sc. (N.Z.), Ph.D. (Edin.). 20 January
1960. (On leave in 1973.)

Carl Eugene Dahlstrom, M.A. (Sask.), Ph.D. (McG.). 1 July
1965; Lecturer, 6 June 1962.

Ronald John Sandeman, B.Sc. (Adel.), M.Sc. (Melb.), Ph.D.
(Cantab.). 1 July 1967; Lecturer, 14 March 1966.

Michael Miles Gore, B.Sc., Ph.D. (Leeds). 1 July 1968; Lecturer,
31 May 1962.

Hans Georg Hornung, B.E., M.Eng.Sc. (Melb.), Ph.D. (Lond.).
1 July 1971; Lecturer, 7 August 1967.

Lecturers:

Ronald James MacDonald, B.Sc., Ph.D. (N.S.W.). 1 December
1965.

Allan Malcolm Baxter, M.Sc., Ph.D. (Melb.). 16 March 1970.

Senior Demonstrator:

William Eugene Tiller, M.S. (Clemson). 26 April 1971.

Demonstrator:

David Richard Llewellyn Davies, B.Sc. 24 February 1972.

PSYCHOLOGY

Professor and Head of Department:

Cecil Austin Gibb, O.B.E., B.Ec., M.A. (Syd.), Ph.D. (Ill.),
F.A.Ps.S., F.A.S.S.A. 21 October 1955.

Professor:

Kenneth Alfred Provins, M.A. (Oxon.), Ph.D. (R'dg.). 1 Feb-
ruary 1968.

Associate Professors:

- Patrick Pentony, M.A. (W. Aust.). 17 August 1959; Senior Lecturer, 1 January 1951.
 Gavin Nott Seagram, B.A. (Lond.), M.Sc. (Melb.). 1 July 1963; Senior Lecturer, 1 January 1957; Lecturer, 15 January 1953.

Senior Lecturers:

- Margaret Rendall Middleton, M.A. (Melb.), Ph.D. (W. Aust.). 1 January 1962; Lecturer, 1 February 1959.
 John Raymond Trotter, B.A. (R'dg.), D.Phil. (Oxon.). 1 September 1962.
 William Harold Gladstones, M.A. (W. Aust.), Ph.D. (Tufts). 1 July 1968; Lecturer, 3 February 1963.
 Michael Lewis Cook, B.Sc. (Manc.), M.Sc., Ph.D. 1 July 1971; Lecturer, 1 January 1965; Senior Demonstrator, 17 October 1961.

Lecturers:

- William Paul Bellingham, B.A. (Calif.), Ph.D. (New Mexico). 17 January 1969.
 Russell Kent Darroch, B.A. (Carleton Coll.), M.A., Ph.D. (Ill.). 8 October 1971.

Temporary Lecturer:

- May Jane Chen, M.Sc. (National Taiwan). 1 September 1971.

Senior Demonstrators:

- Bridget Farrer, B.A. (Syd.), M.Phil. (Lond.). 10 November 1969.
 Leonard Henry Storlien, B.Sc. (Leth.). 24 August 1970.
 Michael Ion Bossley, M.Sc. (Auck.). 28 February 1972.

Demonstrators:

- Kevin Paul Chamberlain, M.A. (Cant.). 3 February 1971.
 Jennifer Jessie Small, B.A. (N.S.W.). 21 February 1972.

Professor:

THEORETICAL PHYSICS

- Hans Adolph Buchdahl, D.Sc. (Lond.), A.R.C.S., F.A.A. 5 February 1963.

Reader:

- Donald Blair Melrose, B.Sc. (Tas.), D.Phil. (Oxon.). 1 July 1972; Senior Lecturer, 27 June 1969.

Lecturer:

- Mark Andrews, M.Sc. (Q'ld.), Ph.D. (Birm.). 1 January 1965.

Postdoctoral Fellow:

- Peter John Sands, B.Sc., Ph.D. 17 August 1970; Scholar, 2 March 1964 to 5 April 1967.

Professor: ZOOLOGY

Samuel Anthony Barnett, M.A. (Oxon.). 7 July 1971.

Readers:

Warwick Llewellyn Nicholas, B.Sc., Ph.D. (Liv.). 1 July 1964;
Senior Lecturer, 1 January 1960. (On leave in 1973.)

Cecil Hugh Tyndale-Biscoe, M.Sc. (N.Z.), Ph.D. (W. Aust.).
1 July 1970; Senior Lecturer, 1 July 1965; Lecturer, 4 January
1962.

Alan Harold Weatherley, B.Sc. (Syd.), M.Sc. (Tas.), Ph.D. (Glas.).
1 July 1971; Senior Lecturer, 1 July 1962; Lecturer, 11
October 1960.

Senior Lecturers:

John Robert Thomas Short, B.Sc. (W. Aust.), D.Phil. (Oxon.),
D.Sc. (Aberd.). 22 September 1965.

Richard Essex Barwick, M.Sc. (N.Z.), Ph.D. 1 July 1966;
Lecturer, 29 February 1960.

Christopher Bryant, M.Sc., Ph.D. (Lond.). 1 July 1967; Lecturer,
21 August 1963.

Vernon Arthur Peperell Harris, B.Sc., Ph.D. (Lond.). 1 July
1967; Lecturer, 29 January 1965.

Peter Anthony Janssens, B.Sc., Ph.D. (Sheff.). 1 July 1970;
Lecturer, 27 September 1967.

Lecturers:

Timothy George Marples, M.Sc. (N.Z.), Ph.D. (Georgia). 1 July
1966.

Michael John Howell, B.Sc. (N.Z.), M.Sc. (Well.), Ph.D. 1 Janu-
ary 1969; Temporary Lecturer, 25 November 1968; Scholar,
1 February 1966.

Australian Meat Research Committee Research Fellow:

David Duncan Heath, M.Rur.Sc. (N.E.), Ph.D. 12 March 1970;
Scholar, 13 March 1967. (Until June 1973.)

Senior Demonstrator:

James Leslie Carstairs, B.A. (Dub.). 8 February 1971.

Demonstrator:

Ruth Huntley Prowse, B.Sc. 1 June 1970.

COMPUTER CENTRE

Head of Centre:

Michael Robert Osborne, B.A. (Melb.), Ph.D. (Lond.). 8
December 1965.

Fellow:

Robert Scott Anderssen, M.Sc. (Q'ld.), Ph.D. (Adel.). 17 August
1970; Research Fellow, 2 January 1968.

Research Fellows:

- Colin Leonard Jarvis, M.Sc., Ph.D., Dip.N.A.A.C. (W.Aust.).
7 January 1972.
Richard Peirce Brent, B.Sc. (Monash), M.S., Ph.D. (Stan.). 3
August 1972.

CENTRE FOR CONTINUING EDUCATION*Director:*

Christopher Duke, M.A. (Cantab.), Ph.D. (Lond.). 1 April 1969.

Reader:

Nicolas Frederick Haines, B.A., Ph.D., Dip.Ed. (Lond.). (To
arrive.); Senior Lecturer, 24 October 1969.

Senior Lecturer:

Bernard Henry Crew, B.A., Dip.Ed. (Q'ld.), M.A. 14 November
1969; Resident Staff Tutor, 1 January 1959.

Lecturer:

Alan Thomas Davies, B.Sc., Ph.D., Dip.Ed. (Melb.). 1 January
1970.

AUSTRALIAN NATIONAL UNIVERSITY PRESS*Director:*

William Arnold Wood, A.B. (Prin.). 20 October 1967.

Editor:

Patricia Croft, B.A. (Syd.). 5 July 1968; Publications Officer, 1
March 1963; Graduate Assistant, 3 May 1956; Publications
Assistant, 16 May 1955.

Assistant Editor:

Shirley Davies, M.A. (Melb.). 14 March 1966; Editorial Assis-
tant, 6 October 1964.

Promotion Manager:

Harold Rudolph Field, B.A. (Melb.). 11 August 1969.

Production Manager:

John Iremonger, B.A. (Syd.). 29 March 1971.

UNIVERSITY WELFARE SERVICES

Dean of Students: Professor D. P. Scales, B.A., D.U.

*Director:***UNIVERSITY HEALTH SERVICE**

Stanley Bryan Furnass, B.M., B.Ch., M.A. (Oxon.), M.R.C.P.,
F.R.A.C.P. 1 August 1966.

Physician:

Robin Frances Jenkins, M.B., B.S. (Syd.). 14 February 1972.

Part-time Physician:

Margaret Wallner, M.B., B.S. (Syd.). 10 March 1969.

UNIVERSITY COUNSELLING SERVICE

Director:

Kenneth Neal Robinson, M.Psych. (W. Aust.). 1 August 1972.

Counsellor:

Margaret Honor Evans, B.A. (N.Z.), Dip.Psych. (Lond.). 15 February 1965.

Assistant Counsellor:

Desmond Harold Judge, B.A. (Q'ld.), M.A.Ps.S. 21 April 1969.

Careers and Appointments Officer:

Steven John Rawling, B.A., Dip.Ed. (Syd.). 3 April 1967.

Lecturers:

Lyndon Margaret Rose, B.A. (Q'ld.). 12 February 1968 (Efficient Reading).

Brian George Palfrey, B.A. (Wales). 4 May 1970 (Efficient English).

Instructor in Mathematical Methods:

To be appointed.

Secretary:

UNIVERSITY UNION

Eugene Charles de Totth, M.A. (W.Aust.). 1 February 1965.

SENIOR ADMINISTRATIVE STAFF

OFFICE OF THE REGISTRAR

Assistant Registrars:

Helen Cumpston, B.A., LL.B. (Tas.). 13 December 1963; Acting Assistant Registrar, 21 November 1962; Graduate Assistant, 2 December 1957.

Robert John Cymbert Horan, B.A. (Syd.), M.A. (Oxon.). 14 February 1964; Senior Graduate Assistant, 2 January 1962. (On leave until October 1973.)

Alan Alexander Burnett, B.A. (N.Z.), M.A. (Oxon.). 12 October 1970; Senior Graduate Assistant, 13 October 1969.

Business Manager:

Percival William Brett*, A.C.I.S. 15 March 1968; Business Manager, School of General Studies, 1 September 1961; Accounting Officer, 21 May 1951.

* Dates prior to 30 September 1960, refer to appointments in the Canberra University College.

Staff Officer:

John Dalziel Brocklehurst*. 27 February 1964; Administrative Assistant, 13 July 1959.

Assistant to the Registrar (Information):

John Glynne Peat Jones*. 3 July 1961; Administrative Assistant, 4 February 1957.

Senior Graduate Assistant:

Edward Ole Rice Helgeby, Cand.jur. (Oslo). 9 October 1972; Graduate Assistant, 24 November 1969.

Statistical Officer:

Trevor Roy Rodgers, B.A. (N'cle. (N.S.W.)). 12 January 1972.

Accountant:

OFFICE OF THE BURSAR

Lois Amalie Bellingham, B.Com. (Q'ld.), F.A.S.A., A.C.A.A. 1 July 1967; Acting Accountant, 1 April 1966; Assistant Accountant, 8 April 1947.

Assistant Accountants:

John Tyler, B.A., A.A.S.A. 8 March 1968; Sub-Accountant, 10 February 1965.

Tadas Grincelis, A.A.S.A.(Senior), A.S.T.C. 21 August 1969; Sub-Accountant, 3 August 1964.

Budget Officer:

William Charles Fairbanks, B.A., A.A.S.A.(Senior). 28 August 1969; Systems Officer, 4 January 1968; Assistant to the Business Manager, John Curtin School of Medical Research, 18 November 1963.

Internal Auditor:

Neil Graeme MacDonald, A.C.A. 30 October 1967; Sub-Accountant, 4 January 1966.

Housing Officer:

Dorothy Elma Harvey, B.E.M., B.A. (Melb.). 1 July 1967; Senior Graduate Assistant, 1 January 1964; Housing Officer (Graduate Assistant), 23 June 1955; Housing Officer, 1 June 1954; Clerk Grade II, 4 February 1952.

Officer-in-Charge, Management Services Group:

William Henry Goddard, A.A.S.A. 10 June 1965. (Also Business Manager, John Curtin School of Medical Research.)

* Dates prior to 30 September 1960, refer to appointments in the Canberra University College.

OFFICE OF THE REGISTRAR (PROPERTY AND PLANS)

Assistant Registrar (Development):

Allison Alexander Robertson, B.E. (Adel.). 28 July 1969; Planning Officer, 28 March 1966; Laboratory Manager, 11 November 1957.

Architect-Designer:

Derek Fuller Wrigley, A.R.A.B.I., A.R.A.I.A., A.I.D.I.A. 28 July 1969; University Designer, 8 June 1962; Acting Designer, 3 July 1961; Assistant Designer, 21 January 1957.

Chief Engineer:

Edwin William Simmonds. 1 July 1970; Acting Chief Engineer, 28 July 1969; Senior Engineering Assistant, 12 December 1966.

Business Manager:

John Cilentto Mitchell, B.A. 20 September 1965.

OFFICE OF THE ACADEMIC REGISTRAR

Deputy Academic Registrar:

George Edgar Dicker, B.A., Dip.Ed. (Syd.). 1 August 1971; Assistant Registrar, 15 November 1965.

Assistant Registrars:

Mary Grace Cummings Bouquet*, B.A., Dip.Ed. (Syd.). 6 September 1965; Senior Graduate Assistant, 1 January 1963; Graduate Assistant, 1 January 1959; Administrative Assistant, 12 December 1956.

John Kenneth Sharp, B.Ec. (Syd.), A.S.A. 11 October 1971; Senior Graduate Assistant, 1 July 1969; Graduate Assistant, 13 November 1967; Administrative Officer (Temporary), 12 September 1967.

Senior Graduate Assistants:

Patricia Marie White, B.A. (Melb.). 30 September 1965; Graduate Assistant, 10 December 1962.

Graham Leslie Hutchens, B.Econ. (Q'ld.). 1 July 1969; Graduate Assistant, 19 August 1968.

Barry Raymond Davis, B.A. (Syd.). 1 January 1971; Graduate Assistant Grade II, 1 July 1969; Graduate Assistant, 27 January 1967.

Warwick Raymond Williams, B.Sc. (N.S.W.). 11 October 1971.

* Dates prior to 30 September 1960, refer to appointments in the Canberra University College.

SENIOR LIBRARY STAFF

Associate Librarian (Collection Building and Reader Services):

Jean Mary Waller, M.A. (Melb.), A.L.A., A.L.A.A. 5 December 1966.

Associate Librarian (Administration and Technical Services):

Kitchener Nicholas Joffe Bernie*, B.A. (Syd.), A.L.A.A. 20 December 1971; Senior Librarian, 1 April 1961; Deputy Librarian, 7 December 1959.

Divisional Librarian (Asian Studies):

Enid Bishop*, B.A. (Melb.), M.S. (Col.). 1 July 1968; Assistant Librarian in Charge of Oriental Collection, 1 April 1961; Library Assistant, 2 January 1958.

Senior Librarians (Principal Cataloguers):

Maude Joan Woolcock, B.A. (Q'ld.), A.L.A.A. 1 April 1961; Library Assistant, 22 November 1948.

Erika Vélins, mag.oec. (Latvia), A.L.A.A. 1 July 1964; Library Assistant, 12 March 1951.

Marjorie Ethel Dabrowski, B.A. (Tas.), A.L.A.A. 1 July 1968; Library Assistant, 3 January 1968.

Senior Librarian (Reference, School of General Studies):

Dorothy May Enderby*, B.A. (Melb.), A.L.A., A.L.A.A. 1 April 1961; Library Assistant, 16 January 1950.

Senior Librarian (Science):

Cynthia Margaret James*, B.A. (Melb.), A.L.A.A. 1 April 1961; Library Assistant, 9 February 1959.

Senior Librarian (Reference, Institute of Advanced Studies):

Marjory Ivy Day, B.A. (Syd.), A.L.A.A. 1 February 1967; Library Assistant, 14 March 1960.

Senior Librarian (Humanities):

Kay Britcliffe, B.A. (Tas.), A.L.A.A. 17 January 1972; Library Assistant, 22 April 1963.

Senior Librarian (Acquisitions):

Minna Rebecca Dawes, B.A. (N.E.), A.L.A.A. 3 February 1972; Library Assistant, 5 February 1968.

Senior Librarian (Law):

Ethelwyn Rhoda O'Shea, B.A., LL.B., Cert.Soc.Studies (Auck.). 27 March 1972.

* Dates prior to 30 September 1960, refer to appointments in the Canberra University College.

LIBRARY FELLOW

Alec Derwent Hope, O.B.E., B.A. (Syd. and Oxon.), Hon.D.Litt.,
F.A.H.A. 1 January 1969.

FORMER CHANCELLORS

Lord Bruce of Melbourne*, 10 August 1951 to 12 May 1961.
Sir John (Douglas) Cockcroft*, 12 May 1961 to 31 July 1965.
Lord Florey of Adelaide and Marston*, 1 August 1965 to 21
February 1968.

FORMER VICE-CHANCELLORS

Sir Douglas (Berry) Copland*, K.B.E., 1 May 1948 to 30 April
1953.
Sir Leslie (Galfreid) Melville, K.B.E., 1 November 1953 to 29
September 1960.
Sir Leonard (George Holden) Huxley, K.B.E., 30 September
1960 to 31 December 1967.

FORMER UNIVERSITY FELLOWS

Sir (William) Keith Hancock, K.B.E., 1 January 1966 to 31
December 1967.
Sir Mark (Laurence Elwin) Oliphant, K.B.E., 1 January 1967
to 31 December 1968.

EMERITUS PROFESSORS

Herbert Burton, C.B.E. (Economic History, School of General
Studies), 1966.
Sir (William) Keith Hancock, K.B.E. (History, Institute of Ad-
vanced Studies), 1966.
Sir John (Carew) Eccles (Physiology, Institute of Advanced
Studies), 1966.
Sir Mark (Laurence Elwin) Oliphant, K.B.E. (Particle Physics,
Institute of Advanced Studies), 1967.
Sir Hugh (Arnold Hughes) Ennor, C.B.E. (Biochemistry, Insti-
tute of Advanced Studies), 1967.
Sir John (Grenfell) Crawford, C.B.E. (Economics, Research
School of Pacific Studies, Institute of Advanced Studies), 1968.
Charles Patrick FitzGerald (Far Eastern History, Institute of
Advanced Studies), 1968.
Alec Derwent Hope, O.B.E. (English, School of General
Studies), 1969.
Gordon Henry Newstead (Engineering Physics, Institute of
Advanced Studies), 1970.

* Deceased

Alexander George Ogston (Physical Biochemistry, Institute of Advanced Studies), 1970.

William Edward Hanley Stanner, C.M.G. (Anthropology and Sociology, Institute of Advanced Studies), 1971.

Alban William Housego Phillips, M.B.E. (Economics, Research School of Social Sciences, Institute of Advanced Studies), 1971.

LIBRARIAN EMERITUS

Arthur Leopold Gladstone McDonald, 1960.

A GENERAL DESCRIPTION OF THE UNIVERSITY

The city of Canberra, which has since 1927 been the capital of the Commonwealth of Australia, is situated in the Australian Capital Territory, an area of 911 square miles, formerly part of New South Wales, transferred to the Commonwealth in 1911. Canberra is about 200 miles by road south-west of Sydney, and 400 miles north-east of Melbourne, and is connected to those cities by good air and road services and by rail. Canberra, which is now developing rapidly as the national capital, is the headquarters of most of the Departments of the Commonwealth Government, and has a population of some 156,100. The city is 1,800-2,000 feet above sea level and has a pleasant and healthy climate. It has been laid out in accordance with a comprehensive plan, and an imaginative program of tree-planting has made the city and growing suburbs very attractive. When the plan of the city of Canberra was decided upon in 1916, a site close by the main city area was set aside 'for university purposes'.

An authoritative statement on the history and development of Canberra and the Capital Territory is included in each issue of the *Official Year Book of the Commonwealth of Australia*, which may be consulted in most libraries and in the offices of Australian diplomatic and consular representatives abroad. Reference may also be made to *Canberra—A Nation's Capital*, edited by H. L. White, Canberra, 1954.

Canberra University College

In 1927 the Commonwealth Government, recognising the great public importance of providing facilities for higher education at the seat of government, appointed a Committee to report on the provision of university facilities for residents of Canberra, with particular reference to the needs of officers of the Federal Public Service and their families. This Committee recommended the establishment of a university with certain facilities.

In January 1929 the University Association of Canberra was formed with the main object of promoting the establishment of a university in Canberra. Proposals put forward by the Council of the University Association were accepted by the Commonwealth Government and in December 1929 the Canberra University College Ordinance was passed, providing for the creation of a University College pending the establishment of a teaching university in Canberra. Arrangements were made with the University of Melbourne which amounted to recognition of the College by that University on terms permitting of its full development in the faculties of arts, science, commerce and law. Lectures were arranged in fourteen subjects of the arts, science and commerce courses and

the first lectures were given on 31 March 1930. There were thirty-two students enrolled.

Early development of the College was slow, being hampered by the depression of the early thirties and the war, but enrolments rose sharply in the immediate post-war years. The first professors were appointed in 1948, and by 1960 the full-time teaching staff had increased to ninety, with a student enrolment of more than 800, of whom 240 were full-time students.

The Decision to Establish the University

While the College was still some way from its full establishment, at the end of the 1939-45 war, a group of people with academic interests who were concerned in other connections with shaping the post-war development of Australia, came together to consider future university development in Canberra. It was from these deliberations that there emerged the Bill which, on its enactment by the Commonwealth Parliament in August 1946, became the Australian National University Act.

The University envisaged in the Act was to differ in two main ways from the universities already established by the Australian States. In the first place, although the Act stated that 'the University may provide for the incorporation in the University of the Canberra University College', the University was to be *primarily* concerned with research and research training. In the second place it was envisaged that the University would select certain defined fields in which to begin its work, those first contemplated being the medical sciences, the physical sciences, the social sciences and Pacific studies.

Early Activities of the University

The University Act placed complete power of management in the hands of a Council and, to provide for the development of the University before the Council could be formed, the Act established an Interim Council. The Interim Council included substantial representation of the professorial staffs of the other Australian universities, and conducted the University's affairs from its appointment in August 1946 until the permanent Council took office in July 1951.

Very early in its operations the Interim Council established an Academic Advisory Committee of four members, all of whom held senior academic appointments in the United Kingdom and were either themselves Australian or were well acquainted with academic matters in Australia. The Committee took a leading part from 1947-51 in advising the Interim Council on the basic plans and early development of the University.

The Interim Council, as soon as it had decided to establish the four original research schools, set about recruiting senior staff members for them.

The first appointments were made in 1948 and, until premises were available in Canberra, the Librarian and heads of departments concerned worked in other centres. By the end of 1952 all but two departments had been moved to Canberra, though even then most were housed in temporary quarters. Simultaneously, the Interim Council sought to advance the interests of other Australian universities by means of the award of scholarships and research fellowships for study abroad and the arranging of seminars in Canberra to which leading overseas scholars were invited.

Association with Canberra University College

Development of the University continued steadily, both in regard to the building up of staff and in the provision of permanent buildings, but the Government was obliged to come to a decision on the future of Canberra University College which was rapidly approaching the stage when it could either become an independent university, which meant the development of postgraduate studies as well as undergraduate teaching, or when, as envisaged in the Australian National University Act of 1946, it should be incorporated in the University.

The Government decided that the College's future lay with the University and asked the two Councils to submit proposals for a desirable form of association. In March 1960 an Act was passed giving effect to this decision and on 30 September 1960 the Canberra University College became associated with the Australian National University as its School of General Studies, while the four research schools continued their work in the Institute of Advanced Studies.

Government of the University and the Act of 1960

The Act of 1960 provided for the dissolution of the governing body of the College and for an enlarged Council of the University. The Council includes members of Parliament, of the University staff, of the student body and of Convocation, and persons appointed by the Governor-General. The Chancellor, or in his absence the Pro-Chancellor, presides at meetings of the Council. The present holders of these offices are Dr H. C. Coombs, F.A.H.A., F.A.S.S.A., F.A.A., and the Honourable Sir Anthony Mason, K.B.E., respectively.

Convocation will eventually be a body composed primarily of graduates of the University, but in order to bring Convocation into existence at an early stage, and to foster the interest of Australian academic leaders in the University, special steps were taken. The University invited to membership of Convocation its academic and certain non-academic officers, the members of the Academic Advisory Committee, the Chancellors and Vice-Chancellors (or equivalent officers) of the other Australian university institutions and other research organisations and five other members nominated by each of those bodies. In 1960 Convocation was enlarged to include members and past members of the former Council of the

College, members of the College staff, and graduates of the University of Melbourne who took their degrees through the College: in addition 200 other persons were invited, together with those members of Parliament who were graduates. Though at present the only function of Convocation is to elect members of the Council, it is hoped that, as the University develops, ways will be found to give Convocation opportunities to exercise an influence in university affairs commensurate with the wisdom and experience of its members. Occasional meetings of local members are now held in centres such as Melbourne and Sydney.

The University's senior academic bodies are the Boards of the Institute and of the School. The Vice-Chancellor is the Chairman of both Boards, which comprise, in the Institute, the heads of research schools, the heads of departments within those schools, the Deputy Vice-Chancellor and three members of the Board of the School; in the School the Board consists of all professors of the School, the Deputy Vice-Chancellor and three members of the Board of the Institute. A Deputy Chairman of each Board is appointed by the Council. There is also a Professorial Board, comprising all professors of the University, but its role is purely advisory. While the Council is the governing body of the University, it looks mainly to the Boards of the Institute and of the School for guidance and advice in all matters of academic policy and practice.

Administrative Structure

The administrative staff is led by the Vice-Chancellor, who is the principal executive officer of the University. He is assisted by the Deputy Vice-Chancellor in matters of academic policy and by the Secretary to the University in the conduct of financial policy and in the supervision of the University's academic and general administration.

The Registrar is the secretary of the Council and of the Professorial Board and is responsible, under the Vice-Chancellor, for correspondence with public bodies and for communicating the general policy of the University.

The Bursar is responsible for the financial implications of new policies and developments, budgets, accounting services, business management and for residential housing.

The Registrar (Property and Plans) is responsible for the co-ordination of planning, including the relating of academic plans to the provision of buildings and site development to suit the requirements of teaching and research.

The Academic Registrar is secretary of the Boards of the Institute of Advanced Studies and of the School of General Studies and is responsible for the administrative services arising from the work of the Boards, including matters related to academic staff appointments and student matters.

Administrative services within the research schools are provided by business or laboratory managers, who are responsible to the directors or deans concerned, and by graduate assistants who work with the directors and deans but are responsible to the Academic Registrar.

In the School of General Studies faculty secretaries work with the deans but are responsible to the Academic Registrar. The Business Manager in the Registrar's office provides special services to the deans.

The Institute of Advanced Studies

The Institute comprises six research schools, which are led by directors or deans: the John Curtin School of Medical Research (Director: Professor F. J. Fenner, F.A.A., F.R.S.), the Research School of Physical Sciences (Director: Professor Sir Ernest Titterton, C.M.G., F.A.A.), the Research School of Social Sciences (Director: Professor W. D. Borrie, O.B.E., F.A.S.S.A.), the Research School of Pacific Studies (Director: Professor D. A. Low), the Research School of Chemistry (Dean: Professor D. P. Craig, F.A.A., F.R.S.) and the Research School of Biological Sciences (Director: Professor Sir Rutherford Robertson, C.M.G., F.A.A., F.R.S.). Besides the directors and deans, the permanent academic staff of the Institute comprises professors, readers, professorial fellows, senior fellows and fellows. Each professor who is a head of department is responsible for the research conducted and the research training given in his department. In addition to the permanent staff, senior research fellows and research fellows are appointed for periods of from two to five years. Postdoctoral fellows are appointed for periods of from one to two years. There are also a number of visiting fellows who are appointed for periods of up to one year. At 30 September 1972, there were 437 members of the academic staff and 275 full-time research students.

From the beginning it was recognised that if the best standards in research were to be maintained, generous provision for study leave should be made to facilitate contact with research workers overseas. Professors are entitled to one year's leave in four with a maximum allowance for expenses of \$3,200; other permanent members of staff also benefit from liberal provisions. Shorter leave can be taken before the full leave is due.

The conditions on which all members of the academic staff of the Institute are appointed lay down that the member's principal responsibility is to devote himself to research and the advancement of knowledge in his subject, and the University's policy is to make every effort to ensure that the member's time will be unencumbered by other duties. There is, however, a responsibility on members of the staff to assist in the training of graduate students and to make such contributions as they can to the work being done by the other Australian universities.

The School of General Studies

The School consists of five faculties, each of which is responsible under the general oversight of the Board of the School of General Studies for academic matters falling within its special field. There are Faculties of Arts, Asian Studies, Economics and Science, each comprising groups of kindred departments, and a Faculty of Law.

The continuing academic staff of the School comprises professors, associate professors, readers, senior lecturers and lecturers. Study leave provisions for these categories are comparable with those in other Australian universities. From 1973 there will be a number of limited term lectureships, to be known as lecturing fellowships. Appointment as lecturing fellow may be at any point within the lecturing range but will be for three to five years only. The School also has a small number of research fellows and post-doctoral fellows. Senior tutors, tutors, senior demonstrators and demonstrators are appointed annually to a normal maximum of five years. Visiting fellows may be appointed for periods varying between three months and one year. Assistance in teaching is also provided by part-time lecturers, tutors and demonstrators. At 30 September 1972, there were 347 full-time members of the academic staff (including tutors and demonstrators but excluding research fellows and postdoctoral fellows) and approximately 4,713 students.

Members of the academic staff of the School are responsible for undergraduate teaching and for the supervision of students undertaking postgraduate work leading to the degree of master and the degree of Doctor of Philosophy. The research requirements of the staff are that they will devote a reasonable proportion of their time to research or other original work in their subjects.

The University Library

The University Library comprises four main collections with several branch libraries.

The Advanced Studies collection of some 310,000 volumes is closely related to the special interests of the six research schools in the Institute. It has a wide range of periodical literature and is strong in the fields of anthropology and linguistics, mathematics, mathematical statistics, physics, chemistry and the non-clinical medical sciences, and has sought to acquire a good working collection of secondary material of high standard in the social sciences.

The General Studies collection (approximately 200,000 volumes) is designed to further teaching at all levels in the Faculties of Arts, Economics and Science, and to provide research facilities in the humanities.

The Asian Studies Division (mainly Chinese, Japanese and Indonesian) is primarily a research collection and at present contains approximately 100,000 volumes.

The Law library contains about 40,000 volumes.

The resources of the National Library of Australia are available to members of the University, who also have the advantage of access to many specialised collections of material held by government instrumentalities in Canberra.

Site and Buildings

The main University site occupies about 320 acres of land in the Canberra districts of Acton and Turner and a further 200 acres at Mount Stromlo, ten miles from Canberra.

At the present time, thirty-one major buildings have been erected on the main site in an attractive parkland setting on the shores of Lake Burley Griffin.

Sullivans Creek which passes through the site to empty into Lake Burley Griffin, includes ponds, cascades and landscaping. Three road bridges and a pedestrian bridge span the Creek and link the two halves of the site.

The growing demand for sporting facilities on the site can no longer be met adequately by the existing sports oval and pavilion. A second sports field has been developed which is expected to become the University's major sporting area. A pavilion to serve this sports field was completed during 1968.

The first stage of the Chancelry, a permanent building to house the University's administrative staff, was completed in 1964 and further stages were completed in 1965 and 1968. Elements of the University administration are still housed in temporary buildings. When University Union activities are transferred to a new building in 1972 the present Union building will be converted for use by administrative staff.

University House, the University's first collegiate building, was completed in 1954 and provides accommodation for single research students reading for the degree of Doctor of Philosophy, and for academic staff without children. The house also serves as a faculty club for non-resident members of the University.

A second residence for graduate students was completed in 1971. Called Graduate House and erected on University land in Northbourne Avenue, it accommodates 100 single students and has eight double rooms for married students or short-term visitors.

The Staff Centre provides dining facilities and other amenities for members of staff and their guests but residential accommodation is no longer available.

The original University Union Building was occupied in 1965 and provides service and amenities primarily for students but also for other members of the University community. However, the University Union has been re-sited closer to the centre of undergraduate activities and near the junction of University Avenue and Sullivans Creek. A Sports Centre was constructed alongside the new University Union Building.

Melville Hall in Ellery Circuit was completed in May 1971.

The Institute of Advanced Studies

The John Curtin School of Medical Research building was occupied in March 1957. An isotope laboratory was recently completed. In October 1967, the Department of Clinical Science occupied a laboratory and clinical facilities in a new wing of the Canberra Hospital. Animal breeding facilities have been established at the School and extensions were completed in 1972.

The main building of the Research School of Physical Sciences, Cockroft Building, was opened in September 1952. In 1963 the Department of Mathematics moved into a permanent building and the Geophysics Building and extensions to the Cockroft Building were completed in 1965 and 1971. A new Geophysics Building was completed in 1969. Further extensions to Mathematical Sciences were completed in December 1971. Stage 1 of a new tandem accelerator building was completed in September 1972.

The Department of Astronomy, situated at Mount Stromlo Observatory, operates a major observatory at Siding Spring near Coonabarabran, northern New South Wales, where three telescopes, houses and a residential lodge have been built. A 150-inch telescope is to be established at Siding Spring Observatory as a joint Anglo-Australian venture. With the addition of this telescope Siding Spring Observatory will be one of the major observatories in the world. The University has made a site available at Siding Spring Observatory for the construction of a 48-inch Schmidt telescope for the Science Research Council of the United Kingdom. The building was completed in 1972 and the telescope will be installed in 1973.

The H. C. Coombs Building which was opened in 1964 houses the Research Schools of Social Sciences and Pacific Studies. The H. C. Coombs Lecture Theatre was completed during 1968. Additions to the complex consisting of completion of the third or eastern hexagon and construction of a new laboratory wing were recently completed.

A building for the Research School of Chemistry was completed during 1967.

The Research School of Biological Sciences was established during 1968 and the permanent building for this school was completed in November 1972.

The School of General Studies

The first permanent building, the Haydon-Allen Building, was occupied in July 1960 and extensions were completed in 1962 and 1968. A further stage in the expansion of this complex was completed early in 1972.

The Physics Building was occupied in 1961, the Chemistry Building in 1962, the Geology Building in 1963 and the Zoology Building in 1964. A laboratory and animal house for the Department of

Zoology was completed in 1967. Extensions to the Zoology and Geology Buildings were completed in 1969. The first stage of the Psychology Building was also completed. Extensions to the Chemistry Building were completed in 1970 and the Biochemistry Building in June 1971.

During 1968 buildings were completed for the Departments of Botany and Forestry. A controlled environment house had been completed earlier for Botany in that Department's experimental area on the site. A further stage of the Forestry Building has been completed.

The first stage of the Law Building has also been completed and occupied.

The Faculty of Asian Studies occupied in 1965 a new building which it shared with the Department of Far Eastern History in the Institute of Advanced Studies. However, the Department of Far Eastern History has now moved into the H. C. Coombs Building. The Copland Building for the Faculty of Economics was completed in 1966 and its lecture theatre in 1969.

There are now three halls of residence on the site each of which provides accommodation for both men and women students. Bruce Hall, named after the first Chancellor, Lord Bruce of Melbourne, was occupied early in 1961. With the 1963 extension it provides 210 study-bedrooms. Two new halls provide for an additional 500 students; Burton Hall and Garran Hall were completed in 1965 and 1966, respectively.

Accommodation is also available in the three affiliated colleges established on the site—John XXIII College, Ursula College, and Burgmann College.

Housing

Houses and flats have been built, or their tenancies otherwise acquired in numbers sufficient to make it possible to house staff with families coming to Canberra, at least for an initial period. Research students with children are also eligible for housing assistance. In addition fifty flats have been provided for married research students without children.

Finance

The University's expenditure in 1971 was \$28,094,408, for running expenses and \$7,794,273 for capital and other non-recurrent expenditure. Apart from relatively small amounts received from gifts, rents and fees, income was provided by the Commonwealth Parliament.

DESCRIPTIONS OF THE WORK OF THE DEPARTMENTS

The research being carried out in the various departments and the equipment and other facilities available are as follows:

THE INSTITUTE OF ADVANCED STUDIES

THE JOHN CURTIN SCHOOL OF MEDICAL RESEARCH

Biochemistry

A number of problems of fundamental biochemistry are being investigated by three research groups within the Department. The techniques of biological chemistry and bacterial genetics are being used together to study the biosynthesis of ubiquinone, an important component of cellular respiratory systems. The problem of oxidative phosphorylation is also being studied using bacterial cells and the techniques of biochemical genetics. A second group is undertaking kinetic investigations for the purpose of elucidating the mechanisms of the reactions catalysed by inosine 5'-phosphate dehydrogenase and the allosteric multifunctional enzyme, chorismate mutase-prephenate dehydrogenase. Kinetic approaches are also being used to determine the amino acid residues involved in the catalytic function of creatine kinase and the effects of rare earth metal ions on the activity of this enzyme. Another research group is concerned with the chemistry and function of membranes. The work includes a study of several transport systems in micro-organisms, the chemistry of membrane proteins and lipids and their interaction, and the use of artificial membrane systems. Studies on protein chemistry are also in progress to relate enzyme structure and function.

Clinical Science

The Department of Clinical Science is housed in the Canberra Hospital where it has both laboratory and clinical facilities. Its activities are orientated towards the pathogenesis of coronary heart disease and are concerned with such aspects as lipid and carbohydrate metabolism, obesity, nutrition, blood pressure, catecholamine metabolism, and blood platelet, coagulation and fibrinolytic behaviour. Some of these studies are linked to an epidemiological project in New Guinea.

Experimental Pathology

Research in the Department of Experimental Pathology is concerned with the structural and biochemical aspects of arterial disease, lipid transport and metabolism, the transport of hormones, the microcirculation including tissue transplants, the function and

structure of the lymphatic system, inflammation and the mechanisms and effects of cell injury.

Human Biology

This department comprises two subgroups. The Human Genetics Group studies serum protein and enzyme polymorphism in a variety of human populations; the Urban Biology Group is concerned with the biological consequences of the processes of civilization, particularly of urbanisation, and the implications for society.

Immunology

The experimental work of the Department concerns tissue and organ transplantation, the interaction between lymphocytes and allogeneic cells, experimental autoimmunity, mechanisms underlying the induction of immunological tolerance and the chemistry and biochemistry of those cells involved in immune reactions. Other interests of the Department include ultrastructural studies of cells and tissues concerned in immune reactions, foetal immunology and tumour biology.

The experimental animal models being used for these studies include sheep, small rodents and the chicken embryo.

Throughout the work of the Department emphasis is placed on the way in which various cells and physiological systems of the body interact to produce immunological phenomena.

Medical Chemistry

Detailed chemical studies of biologically-active substances, and their close relatives, are the main activity of this Department. This takes the form of correlating physical properties with chemical structure. Such correlations supply biochemists and biologists with fundamental data for understanding the more complex systems with which they work, and constantly shed new light on the physicochemical basis of drug action. These aims are implemented as follows:

- (a) Organic chemical studies which include the synthesis of relevant heterocyclic substances such as pteridines, purines, pyrimidines, pyridazines, and their *azalogues*, followed by exploration of their reactions, rearrangements, and behaviour under biological conditions (namely, in neutral aqueous media); in addition the stereochemistry of biologically-active *reduced* heterocycles is being investigated. Many compounds are forwarded to colleagues in Australia and various parts of the world for inclusion in pharmacological and other medical research projects.
- (b) Physical chemical studies, e.g. computer calculation of equilibria in solutions containing metal ions and several complexing agents, as models for biological systems. Stability constants of metal complexes and effects on oxidation-reduction

potentials. The kinetics of nucleophilic displacements. Preferred structures of tautomeric substances and other systems of biological interest from ultra-violet, infra-red and Raman spectroscopic techniques. Ionisation constants are determined as a service to other scientists in Australia.

Microbiology

The Department is concerned with aspects of virology and immunology. The study of viruses concerns their structure, genetic analysis, nucleic acid metabolism, epidemiology, adaptation and the mechanism of recovery from viral infections. Aspects of interest in immunology are the properties of antigens and their reactions with lymphocytes resulting in a humoral or cell mediated immune response and the development of immune competence.

Pharmacology

This newly formed Department currently comprises a group concerned with neuropharmacology, which operates two fully equipped neurophysiological laboratories using micro-electrophoretic techniques, chemical and neurochemical laboratories and apparatus for the identification of synaptic transmitter substances in the brain and spinal cord, and the mode of action of drugs on nerve cells.

Physical Biochemistry

The Department has a general interest in experimental and theoretical investigations of physicochemical aspects of biochemistry and the light that these may throw on structure, function and methodology. Work is in progress on the properties of macromolecules in solution, especially binding studies and the behaviour of interacting protein systems; on the chemical evolution of proteins and enzymes, and on the mechanism of protein denaturation; on the structure of glycoproteins in micelle systems; and on enzymes and enzyme systems concerned with sulphate metabolism. The Department is equipped with the more important instruments required for this type of work. N.m.r. studies are conducted on the structures and formations of nucleosides, amino acids, and other physiologically active compounds.

Physiology

The Department is concerned with neurophysiology, predominantly the neurology of vision and the biophysics of muscular contraction. There are five laboratories fully equipped for studies on the visual system. The work on vision includes studies on the properties of single-unit receptive fields at various levels in the visual pathway, the functional properties of retinal ganglion cells, lateral geniculate cells and cortical neurons together with the neural connections underlying the receptive field properties and

the neural mechanisms underlying binocular vision and form perception. Four vision laboratories are equipped for on-line computer processing of data and the computer control of stimulus presentation. One laboratory is equipped for biophysical investigations into aspects of muscular contraction, including the mechanism of activation of the contractile material and factors that determine the speed of contraction.

THE RESEARCH SCHOOL OF PHYSICAL SCIENCES

Applied Mathematics

Generally, mathematical physics in biology. Application of new theories of interatomic and intermolecular forces to problems in colloid chemistry, biological cell-cell interactions and specificity of macromolecular forces. Investigation into the electromagnetic properties of visual receptors (vertebrate and invertebrate). Mathematics of surface mode propagation including optic wave propagation and fibre optics. Statistical mechanics, phase transitions and theory of liquids, polymers and electrolyte theory.

Astronomy

The Observatory at Mount Stromlo, ten miles west of Canberra, is one of the major observatories in the southern hemisphere. It is equipped with a wide range of telescopes, the largest being the 74-inch reflector, together with a full range of auxiliary equipment. The program of research is extensive, with special emphasis on problems of stellar and galactic evolution. Observations are made of the characteristics of stellar and nebular radiation by photoelectric and spectroscopic techniques. Theoretical investigations aimed at interpreting these observations are an essential part of the work. Active lines of research include the physics of pulsating stars, the chemical composition of stars, evolutionary studies of stars in Globular Clusters and the Magellanic Clouds and optical studies of radiogalaxies. While the Observatory employs optical techniques exclusively, it works in close collaboration with the radio-astronomy section of the Radiophysics Laboratory of the Commonwealth Scientific and Industrial Research Organization, Sydney, and with other Australian universities.

The University also operates an observatory on Siding Spring Mountain near Coonabarabran, New South Wales. The Siding Spring Observatory has a 40-inch reflector as its major telescope but a joint Anglo-Australian 150-inch telescope is now being constructed there and will be in operation in 1974.

Diffusion Research Unit

The Unit is concerned with experimental and theoretical studies which come largely within the broad field of physics of the liquid state. The experimental and theoretical studies are closely related.

The experimental studies are concerned mainly with the development and application of equipment and techniques to obtain fundamental data on the transport of ions and molecules in liquids. Non-electrolyte and electrolyte solutions are able to be studied over a wide range of temperatures and pressures. Liquified inert gases are being studied at low temperatures. Experimental studies of the characteristics of liquids at solid-liquid interfaces are also being made.

The theoretical work largely involves the development and testing of theories of dense fluids. To this end computer simulation studies are being made on solids, liquids and gases and methods are being developed for examining approximate theories of those states of matter.

Electron and Ion Diffusion Unit

The Unit is investigating collision processes of both low energy electrons and positive ions in monatomic and polyatomic gases. The basis of the work is the precise determination of a number of transport coefficients for electron or ion swarms drifting and diffusing through the gas under investigation. In some instances electron attachment and ionisation are significant processes. The data obtained from these measurements are analysed to determine the energy dependence of the cross-sections for the relevant collision processes.

Engineering Physics

Much of the research in the Department arises from the high current and power capabilities of its 576 megajoule homopolar generator. It also has other moderately large power sources, capacitor banks and a computer with novel functional capabilities.

Current activities include—(a) operation of water-cooled high field magnets for experiments in solid state physics up to 300 kilogauss and down to liquid helium temperatures. The Department co-operates with other groups in the conduct of such experiments and also provides on-line computer facilities; (b) acceleration of macroparticles in an electro-magnetic rail gun for hypervelocity impact studies, and of gas by arc heating and magnetic propulsion for hypervelocity wind tunnel and other experiments; (c) development and use of high power mode-locked pulse lasers for fundamental studies in non-linear optics, photon-photon interactions, lunar ranging and possible confirmation of current hypotheses concerning gravitation and for studies with laser produced plasmas; (d) studies on high current stabilised arcs; (e) spectroscopic, stability, magnetic field and other studies of the high temperature plasma in a Tokamak-like device; (f) development of theories and technologies associated with the foregoing, including design, constructional and testing techniques for high field magnets, high current handling, control and fast switching, intermediate induc-

tive storage, computerised control, measurement and recording and the enhancement of experimental capabilities through the provision of new functional operations and features; (g) studies in Information Science, particularly Artificial Intelligence, involving man-computer interaction, pattern recognition, picture processing, automated cartography, speech recognition, and computer-assisted teaching and learning. The use of the Department's own PDP 15 and a wide range of peripherals is central to the elucidation of philosophies and strategies and the solution of significant problems in these fields.

Geophysics and Geochemistry

The main lines of work of the Department are—

- (a) Experimental deformation of rocks, minerals and ceramics. Equipment for deforming specimens of various sizes at confining pressures of up to 10,000 atmospheres and temperatures of up to 1000°C is available together with X-ray, electron microscope deformation studies and optical facilities for deformation studies.
- (b) Palaeomagnetism. The Department possesses both astatic and spinner type magnetometers capable of measuring susceptibility and remanent magnetisation of rocks, including weakly magnetised sediments. Equipment is available for alternating field and thermal demagnetisation experiments. An automatic recording Curie balance, high and low field torque meters for anisotropy studies and equipment for investigations at elevated temperatures are available for studying the magnetic properties of rocks and minerals.
- (c) Geomagnetism. Observations are made of the natural variations in the earth's magnetic field, and the telluric potentials which accompany them, as a means of studying the electrical conductivity structure of the crust and upper mantle. An interest is taken in the cause of the main part of the earth's magnetic field.
- (d) Seismology. The Department operates a 15-station telemetered seismograph network in south-eastern Australia and (in co-operation with the United Kingdom Atomic Energy Authority) a 20-element array at Tennant Creek, Northern Territory. High-gain long-period instruments are also maintained in Canberra and Tennant Creek. In addition, ten portable long-playing tape recorder systems are available for field studies.
- (e) Mineral physics. Apparatus is available for measuring ultrasonic wave velocities and elastic properties of mineral specimens and high pressure phases relevant to mantle studies.
- (f) Major and trace element geochemistry. Analytical equipment is available for the determination of most chemical elements

down to trace levels (less than one part per million). The apparatus includes a spark source mass spectrograph, X-ray fluorescence equipment, λ -ray spectrometer and emission spectrograph. The electron microprobe laboratory is equipped with an ARL instrument, and a second instrument incorporating a lithium-drifted silicon X-ray spectrometer has recently been installed.

- (g) Phase equilibria at high temperatures and pressures. Apparatus capable of attaining pressures up to 200,000 atmospheres and temperatures up to 1800°C for sustained periods is in operation. The apparatus is currently used for studying phase equilibria in the mantle and the origin of magmas in the earth and moon.
- (h) Isotope geology and age determinations. The Department possesses three thermal-ionisation and four gas-source mass-spectrometers several of which are connected on-line for computer reduction of data. They are being used for age determination by potassium-argon and rubidium-strontium methods, and in the study of isotope ratios in ore leads. Facilities for mineral separation are available. The Department also operates a radiocarbon-dating laboratory in conjunction with the Department of Prehistory.

Mathematics

Research in pure mathematics is currently in foundations, group theory, abstract algebra, theory of numbers, functional analysis, classical analysis, constructive analysis, and non-linear differential equations.

Nuclear Physics

The work of the Department lies within the field of nuclear structure physics. Present studies are concerned with reaction mechanisms, nuclear astrophysics, heavy-ion induced reactions, isobaric analogue states, general nuclear spectroscopy and beam-foil spectroscopy.

The Department is well provided with accelerators and supporting equipment. The main facility at present is a 6 MV tandem electrostatic-generator which is provided with a 26 MeV cyclotron-injector and a polarised ion-source. This system produces beams of protons up to 38 MeV, deuterons up to 26 MeV, oxygen ions up to 48 MeV and polarised protons and deuterons up to 12 MeV. A 2.5 MeV electrostatic generator is also available. A new 14 MV tandem generator is at present under construction and is expected to operate early in 1973. This machine, which will be the most advanced of its type in the world, will provide a variety of beams of heavy-ions, e.g. 200 MeV ^{79}Br . When completed it will enable the Department to take a major part in the study of the relatively unexplored field of interactions between heavy-nuclei.

The laboratory possesses an IBM 1800 data acquisition system on line to an IBM 360/50 computer; both single and multiparameter analysis is possible. Other major supporting facilities are pulse height analysers, one double focussing and one broad range magnetic spectrometer, a 10-inch NaI (Tl) detection system, Ge(Li) detectors and large scattering chambers.

Solid State Physics

The main line of research concerns the spectroscopic properties of non-metallic crystalline solids, usually cooled to liquid helium temperature. Spectrophotometers and a grating spectrograph are used to cover the ultra-violet, visible and infra-red regions of the spectrum. Special emphasis is placed on magneto-optical studies, using a Cary Model 61 spectropolarimeter, two superconducting magnets and two magnets in the magnet laboratory belonging to the Department of Engineering Physics. Other activities include Mössbauer research, again with emphasis on magnetic field effects.

Theoretical Physics

Research is being carried out in theoretical problems of nuclear physics, on the physics of elementary particles, on statistical mechanics of lattices, kinetic theory, plasmas and solid state physics. About half the work is in fields related to the experimental activities of the School and the remainder on questions of a more general nature.

THE RESEARCH SCHOOL OF SOCIAL SCIENCES

Demography

In addition to formal demography, the Department's interests include historical studies of population trends and movements and the interrelations of demographic, social, economic and cultural factors, with particular reference to three regions—Australia and New Zealand; the Pacific Islands, including New Guinea; and southern and eastern Asia. Past and current research interests include studies in the fields of population growth; marriage and the family; mortality; fertility; the history and structure of ethnic minorities; economic, social and cultural impact of immigrants; immigration policies; economic demography with particular reference to labour force analysis; demographic aspects of urbanisation and internal migration; population policies and population control; simulation of population structures and trends by computer analysis.

Economic History

The main research interests of the Department are in empirical experience of recent economic development. Research programs include industry studies, investigation of specialised occupations,

business institutions, problems of the development of human capital, and economic policy. Special attention is given to the quantification of growth and the application of theoretical and econometric techniques in the study of data.

Economics

The work of the Department has three main branches—economic statistics, applied economics and economic theory. The central interest is in processes and problems of economic growth and fluctuation. Research fields include the capital market and monetary institutions; econometrics, theoretical and applied; demographic statistics, with a view to their economic and other implications; the principles and practice of social accounting; capital accumulation and technical progress; theoretical and statistical analyses of international trade, productivity and investment in relation to the Australian work force; national and international policies for development and stability.

Education Research Unit

The Unit was established in 1968. Initially most work was in higher education but in projects begun recently about equal emphasis is being given to secondary education.

The broad focus of the Unit's work is education and society. The main projects are on professional socialisation, intrinsic motivation, adolescence and the structure of secondary education, allocation of resources and cost benefit analysis of higher education, pressure groups and education policy, education bureaucracies, Commonwealth involvement in education, the training and adaptation of overseas students, and advanced colleges in relation to their local communities.

Other work recently completed or nearing completion concerns the characteristics of students entering colleges of advanced education, a survey of part-time education at this University, the social origins of students in higher education, a bibliography on the politics of education, earnings differentials for various Canadian social groups and a study of some outcomes of Catholic secondary education.

The academic disciplines represented in the Unit are social psychology, sociology, economics and political science. It is intended that the Unit will become a focus for multidisciplinary studies and that close collaboration be maintained with social scientists in other departments and elsewhere in the University.

History

The major emphasis has been on the growth of Australian society. Special themes are British history and ideas in the nineteenth and twentieth centuries and their influence on Australia, other aspects of 'imperial' history, Australian labour history, and the foundation

and early years of the Australian federation. Close collaboration exists with other departments in the Institute of Advanced Studies and with the Department of History in the School of General Studies.

In Canberra there is a great amount of material for the study of Australian history, and in other fields, particularly modern British and Commonwealth history and aspects of American and European diplomatic history, material is considerable and growing. While the Department is not at present prepared to accept scholars in all these fields, the material is useful for comparative study. The principal collections, printed and manuscript, are contained in the National Library of Australia, the Commonwealth Official Archives and the University Library.

Provision has been made for field-work in Australian history.

History of Ideas Unit

The Unit's general interests lie in the study, in historical and social context, of intellectually significant and relatively complex ideas and intellectual systems related to man and society as these appear in the eighteenth, nineteenth and twentieth centuries. There has been some special emphasis on Continental intellectual history and ideology and on intellectual developments in Communist countries. Continuing research in the Unit takes in the development of sociological, Marxist and revolutionary thought from the eighteenth century to the present day, nineteenth and twentieth-century German and Russian social and philosophical thought, the rise and development of radical theology, studies in the development of jurisprudential and sociological systems and the dialectic of progress evinced in the relationship between politics and society.

Law

The Department exists to carry out research in depth into the operation of legal systems, generally, and in relation to particular branches of law. It is at present concentrating on six main topics: public law (especially the constitutional and administrative law of Australia); international law; common law (in particular, the law of contract, personal property, and aspects of torts); criminology and the general theory of law (in particular, techniques of judicial reasoning). The Department does not train persons for the active practice of law. A good working law library is available at the University, and free use is also made of the law collections in the National Library of Australia and in the Attorney-General's Department.

Philosophy

The Department places special emphasis on five areas of investigation—social, moral and political philosophy, including the philosophy of education; the philosophy of mind, in its relation both to theories of human action and to theories of knowledge; the logic and

methodology of social science and history; the history of post-medieval western philosophy; formal logic. These special studies are pursued in the context of more general problems of philosophical logic and metaphysics, in which members of the Department take a continuing interest.

Political Science

The Department is working in selected areas: Australian politics, comparative politics and world politics.

Structural studies of the Australian party system and political attitudes are supported by regional and national survey research; the compilation and analysis of comprehensive election statistics; case studies of party and pressure group organisation and strategy; and research on Australian political history and thought since 1890.

In comparative politics, the Department's main present interests are in power structures and personal leadership in the USSR All-Union Government and selected republics. Comparative research is also done on political and administrative development in New Guinea.

In world politics the Department's work is complementary to that of the Department of International Relations. It is concerned with the political theory of the subject specifically, with the structural development and future of the nation-state system; with the peace-keeping and other political roles of international organisations (e.g. UN and EEC) within the system; with strategic theory as that is related to political theory; with the nature of the nation-state and its relationships to international organisations; and with the connection between states' foreign and domestic politics.

Sociology

The research interests of the Department are currently concentrated in two general fields—social differentiation, stratification, and mobility, and systems analysis and the study of organisations. While the Department's main focus is contemporary Australian society, emphasis is placed on comparative research and on placing Australian findings in the broader context of other industrial societies. Current changing pattern of occupational achievement, occupational prestige, social and cultural change among immigrants in new countries, family structure and achievement motivation among Aboriginal Australians, experimental field-studies of sociotechnical systems, and organisational communication processes.

Statistics

The Department is engaged in developing the theory of probability and the mathematical theory of statistics in order (a) to devise methods of analysing statistical data in the biological, physical and economic sciences, and (b) to study processes and phenomena in those subjects in which some random element enters in an essential

way. Most of the work of the Department is being devoted to developing new theoretical tools for this purpose and applying them in economics, geophysics, genetics and other sciences.

Urban Research Unit

The main work of the Unit is the study of the roles of private groups and public authorities in urban development in Australia. Most of the work relates to Sydney and Melbourne though some extension has been made to the other mainland capitals. Detailed studies have been made of the post-war changes in four study areas in each of Sydney and Melbourne. The objectives are to increase understanding of the process of urban development and to provide a framework for policy decisions in the area.

Related work of the Unit includes studies of the centralisation of activities and development within large metropolitan areas, of determinants of housing and land costs in urban areas and of the case for diversion of growth to new cities. All of these studies are related to policy.

Two studies are related to local government in Sydney. One is a study of aspects of the politics of selected local governments, and the other an economic study of the provision of local services in different parts of the metropolitan area. Another study focusses on the history of city planning ideas in Australia. The Unit takes responsibility under the direction of a steering committee, for organising urbanisation seminars, attended by people from government, private enterprise and universities.

Archives

The archives section was formally established in 1956 when the records of the Australian Agricultural Company were acquired, and in 1959 the scope of its collecting activities was expanded to include records of employee organisations. The section now holds a valuable collection of the records of businesses (approximately 135 deposits on 6,000 shelf-feet having been received) and of trades unions (approximately 190 deposits on 2,000 shelf-feet having been received). The aim is to gather together primary source material to support advanced research work within the University, especially in such fields as history, economic history and political science. Detailed arrangement and description projects are undertaken by a staff of specialists, and close liaison is maintained with scholars in the Research School of Social Sciences to enable collecting policy to keep abreast of present interests in scholarly research. Scholars from other schools in the University, and from other universities, are also helped, and reference work is carried out to answer inquiries by correspondence. The archives section includes some deposits which have been microfilmed, and pamphlet collections of considerable interest to research workers in political history.

THE RESEARCH SCHOOL OF PACIFIC STUDIES

Anthropology and Sociology

Since 1950 the Department has undertaken an extensive program of field research in New Guinea, Australia, Indonesia, India, Borneo and the islands of the Pacific. At present work is concentrated in Australia, Oceania, and South and South-East Asia. Each inquiry by a research scholar usually requires from twelve to twenty-one months of field research, sometimes divided into two periods, together with a similar length of time spent at the University in preparation, library research and the writing of reports. The subjects of inquiry have varied widely but may be described broadly as the traditional social organisation, culture and language of non-European peoples within the Pacific region, their contemporary state and the changes taking place under modern conditions. Inquiries have also been made into matters of colonial administration and into sociological problems within European Australia. The Department is well equipped with library, seminar and other research facilities. A small collection of specimens of material culture, films and sound recordings is being added to as research proceeds.

Biogeography and Geomorphology

The work of the Department is almost equally divided between studies of contemporary geomorphological and plant ecological processes on the one hand and historical (Quaternary) geomorphology and vegetation studies. There is emphasis on karst, coastal and lacustrine problems in geomorphology. In biogeography most work is presently concentrated in Australia and montane New Guinea.

The Department has good laboratory facilities for palynology, plant ecology and sediment analysis. Field studies are an integral part of all its work.

Economics

The Department is concerned with theoretical and applied problems of economic growth and trade. Its primary interest is in the economic development of the countries of South-East Asia (especially Indonesia), the Pacific Islands (especially New Guinea) and Mainland China, and in Australia's economic relations with these countries and with Japan.

Far Eastern History

The Department conducts research in Chinese and Japanese history from earliest times to the twentieth century. It is particularly concerned with the following fields: modern Chinese history and politics including various aspects of China's relations with neighbouring countries; modern Japanese history and politics, including the impact of Japan on the history of Asia during the twentieth century; the history of traditional Chinese science, especially in

terms of the spread of ideas and technical inventions; Han and pre-Han history with special attention to archaeological evidence and scientific data; history of the Yuan dynasty and the Mongols in eastern Asia; history of T'ang and Sung political history and institutions in China; and Japanese and Chinese historiography.

The Department depends mainly on the two complementary collections of Chinese and Japanese books, journals, newspapers and microfilms in two libraries—the University Library (over 80,000 volumes) and the Oriental Section of the National Library of Australia (over 100,000 volumes). There are also representative collections of works in European languages on East Asia in both libraries.

The Department normally requires that candidates for the degree of Doctor of Philosophy have had prior training in Chinese and/or Japanese before enrolment.

Human Geography

The larger part of the work of the Department is concentrated on spatial aspects of modernisation in Melanesia and New Guinea and on industrial, urban and transportation geography in Australia. Research in Indonesia is planned and studies of subsistence agriculture systems in New Guinea are continuing. The adaptation of theoretical approaches to geographical research in developing societies is an important aspect of the Department's work.

The Department has a regional map collection and cartographical facilities which are used by the Research Schools of Pacific Studies and Social Sciences, and by the University Press.

International Relations

The Department is concerned with the general study of international politics, especially as this concerns Australia. Its empirical work emphasises the international politics of the Asian and Pacific regions with special reference, at present, to the foreign policies of Malaysia, Indonesia, Japan, India, and the Chinese Peoples' Republic, and the international behaviour of the smaller states of South-East Asia, and to Australia's relations with them. Work is being carried out on aspects of Australian defence policy, on the background of Australian foreign policy and on Australia's past diplomatic and military experience. The Department is closely connected with the Strategic and Defence Studies Centre. Members of the Department also pursue theoretical studies of basic questions in international relations. Theories of world politics, past and present, are studied critically. Research facilities include a press library containing a collection of the main Asian English-language newspapers, together with newspaper clippings arranged in accordance with the Department's general and regional interests.

Linguistics

In previous years, linguistic research in the Research School of Pacific Studies was carried out by staff and scholars constituting a

section of the Department of Anthropology and Sociology but in March 1968, an independent Department of Linguistics was established.

The Department is primarily concerned with the analysis, description, and classification of the indigenous languages of Australia, New Guinea, and the Pacific Islands. Research has been carried out in other geographical areas, principally South-East Asia, and some of this will continue, though the main focus in the future will be on Oceanic languages in general. In addition to work in descriptive linguistics, in which a major contribution has been made to our knowledge of the taxonomy of Papuan languages, the Department is also interested in such socio-linguistic questions as the place of vernacular languages in education, the emergence of contact languages (pidgins) and their potential as national languages, the relationship between linguistic and ethnographic data, and the significance of linguistic classification for the interpretation of migrations and the prehistory of the region studied. The Department is also responsible for publishing, under the general title *Pacific Linguistics*, a series of occasional papers, books, and monographs, covering the research interests of the Department; manuscripts are contributed by outside linguists, as well as by members of the Department.

New Guinea Research Unit

The Unit conducts interdisciplinary social science research in Papua New Guinea. It began work in January 1961, and has established permanent housing and other facilities for both resident and transient research personnel in Papua New Guinea. Projects on which research is now proceeding include studies of rural migration and urban resettlement, motivation among cash croppers, political parties, land tenure and use, the spread of agricultural innovations, national economic development, social and economic change in village societies, local government, and the role of interpreters. Other recent research themes have included indigenous business, allocation of time and resources in village societies, inter-ethnic and intertribal relations, non-traditional forms of social and political organisation, and transport.

The Unit edits and publishes the *New Guinea Research Bulletin*, which presents the results of research carried out in Papua New Guinea and *Luksave*, which is a shortened version in simple English and pidgin of selected New Guinea Research Bulletins intended to make research findings available to the people of Papua New Guinea.

Co-operation with the Departments of the School is maintained through informal contact and through an interdisciplinary governing committee under the chairmanship of the Director. (Address in New Guinea: P. O. Box 1238, Boroko. Cables: Natuniv Port

Moresby. Telephone: Port Moresby 53200. Contact may also be made through the Unit's office in Canberra.)

Pacific History

The Department studies problems relating to sustained contact between western and indigenous cultures in the Pacific Islands and in South-East Asia, principally Indonesia and Malaysia. The standpoint is that of the indigenous society; its character, reaction to foreign influence, development under colonial rule, and advancement toward self-rule and national independence. The Department is also interested in the structure and functioning of colonial society itself. Fields of inquiry include political development and operation of commercial, industrial, and plantation enterprises, the traffic in island labourers, and missionary activity. Much of the Department's research requires the use of records held by governments, mission societies, business firms, libraries and private persons in the Pacific Islands and South-East Asia. Field trips are regarded as essential; and living persons, as well as documents, are consulted wherever possible. The Department also offers a program of seminars based upon its current research.

The Journal of Pacific History is edited in the Department. The Pacific Manuscripts Bureau, which is concerned with the location and photocopying of manuscripts relating to the Pacific Islands, is attached to the Department.

Prehistory

The focus of interest of the Department of Prehistory is the history and human ecology of hunter-gatherer societies in Australia, New Guinea and Indonesia, and of horticultural societies in New Guinea and the Pacific. Its research brings it into close association with the Departments of Biogeography and Geomorphology, Anthropology and Sociology, and Linguistics in the Research School of Pacific Studies.

In support of its research activities it maintains type collections of artifacts and animal bones, a small conservation laboratory, photographic and draughting facilities and equipment for mineralogical and petrological examination. It shares in the operation of the radiocarbon-dating laboratory in the Department of Geophysics and Geochemistry, Research School of Physical Sciences.

*Strategic and Defence Studies Centre**

This Centre was established during 1966 by the Director, Research School of Pacific Studies. An Advisory Committee includes members of the Research Schools of Pacific Studies, Physical Sciences

* Staff working in the Strategic and Defence Studies Centre are associated with the Department of International Relations.

and Social Sciences, and the School of General Studies. A small, full-time research staff has been recruited.

The Centre holds regular and special seminars throughout the year, and occasional larger conferences. These have been attended by members of other Australian universities and officials from appropriate government departments.

In 1971 the Centre conducted a seminar series on 'The Changing Pattern of Strategic Interests in the South Pacific' and another on 'Developments in Strategic Thinking Since 1945'. In 1972 the Centre conducted a seminar series on 'The Options for Australian Defence Policy in the 1970s' and 'The Changing Pattern of Great Power Interaction'. Arising out of the work of the Centre fourteen monographs have been published in the series *Canberra Papers on Strategy and Defence*.

A working collection of documentary material from public sources has been established. This collection is the most comprehensive coverage of material on defence matters publicly available in Australia. Most scholars working in this field in Australia make use of the Centre's facilities.

THE RESEARCH SCHOOL OF CHEMISTRY

The School spans the fields of inorganic, organic, physical and theoretical chemistry.

Work is being carried out in the following fields: development of new organic synthetic methods; biosynthesis of mould metabolites and antibiotics; use of modern physical methods, including mass-spectroscopy, in the examination of natural products; organic reaction mechanisms; general studies of the transition metals with special reference to their organometallic and co-ordination chemistry; mechanism of inorganic reactions and the role of metal ions in biological processes; magnetism, spectroscopy and electronic structure of inorganic substances; X-ray crystallography; solid state physics and physical chemistry of organic and inorganic crystals; ultra-violet and spin-resonance spectroscopy, particularly of solids; electronic theory of polyatomic molecules and crystals.

THE RESEARCH SCHOOL OF BIOLOGICAL SCIENCES

Developmental Biology

The current research of the Department comprises mitochondrial structure and development in micro-organisms, especially in primitive eucaryotes, and with particular emphasis on mitochondrial DNA and mitochondrial RNA. Aspects of plant virology especially comparative studies of their biology, taxonomy and ultrastructure. The mode of action of plant hormones. Photomorphogenesis in plants. Evolutionary taxonomy and biology of eucalypts.

Environmental Biology

The Department is concerned with a wide variety of phenomena associated with the structure and function of ecological systems in different environments. Areas of interest include ecosystem and population dynamics, ecological energetics, and trophic interactions between producers, consumers and decomposers. Specific interactions such as plant-herbivore, prey-predator and substrate-decomposer are under active study, particularly in regard to their effect on whole ecosystem characteristics. Natural and modified, aquatic and terrestrial, ecosystems are being utilised in field and laboratory-created ecological units. There is considerable interest in the theoretical basis of the processes under study.

Genetics

The Department is equipped for research on molecular and biochemical genetics. Its main work is directed towards understanding the processes of population change and organic evolution in terms of molecular genetics. Research in progress includes the experimental evolution of new functions in micro-organisms, enzymatic aspects of adaptation, the functional evolution of biosynthetic pathways and comparative studies of protein homology.

Molecular Biology Unit

This Unit studies the mechanisms of biosynthesis of ribonucleic acids and proteins. This includes the control of their synthesis and the transfer of genetic information, the formation of ribosomes, their individuality and the recognition of informational macromolecules by ribosomes.

Neurobiology

The Department is concerned with structure and function of nerve cells in lower animals in relatively simple situations which permit an analysis of mechanisms. Animals worked on are mainly insects and crustaceans.

Population Biology

The work of the Department will be concerned with the dynamics of numbers and the evolution of populations of living organisms and it will include consideration of all factors, e.g. genetical, environmental, behavioural, affecting plant and animal populations and the changes they show.

Taxonomy Unit

This Unit is concerned with investigating taxonomic principles in general and with the study of selected groups of Australian plants.

THE SCHOOL OF GENERAL STUDIES

THE FACULTY OF ARTS

Classics

The Department offers full pass and honours courses in Latin and Greek, and one-year pass courses (which can be combined to form a major or sub-major) in Greek civilization, Roman civilization, and in the Classical Tradition in European civilization. Supervision for the degrees of Master of Arts and Doctor of Philosophy is also given.

In *Greek* two first-year courses are available: Greek Ia assumes no knowledge of Greek and is devoted mainly to mastering the elements of the language, while Greek Ib covers a wide area of Greek civilization with concentrated reading in the original of works related to the close of the fifth century B.C. Either course can, subject to certain conditions, be followed by Greek II and III, which cover aspects, with extensive reading in the original, of the history, literature, thought, art and language of Greece. Practice in translation from English into Greek is also given. For honours students, the fourth year concentrates on a period of Greek civilization and studies in detail its history, literature, art, thought and language.

In *Latin* two first-year courses are available, one for students wishing to learn the language and the other covering a wide area of Roman civilization with concentrated reading in the original. Latin II and III cover aspects of the history, literature, thought, art and language of Rome, with extensive reading in the original. Practice in translating from Latin into English is also given. For honours students, the fourth year concentrates on a period of Roman civilization, and studies in detail its history, literature, art, thought and language.

The Department also offers courses in Greco-Roman civilization and its influence. No knowledge of Greek or Latin is required for the one-year courses in civilization, which cover the most important features of the art, history, thought and literature (studied in translation) of Greece and Rome. These courses may be taken singly or in either order. The third-year unit, Classical Tradition, studies three topics from the Greco-Roman civilization, tracing their influence to the present day.

English

The Department of English offers a range of undergraduate courses in English Literature from medieval times to the present day, as well as separate courses in Australian and American Literature. Students who wish to specialise in English may concentrate, if they wish, upon either the medieval or the post-medieval courses, or combine work from both courses. In the medieval courses, philological training is considered as a means to the full enjoy-

ment and understanding of the literature, rather than as an end in itself. In all courses it is the Department's policy to study a number of texts in depth, rather than to attempt rapid and wide-ranging survey courses. Students are encouraged, nevertheless, to read widely, and not confine themselves merely to the prescribed texts. Supervision is also offered to candidates for the degrees of Master of Arts and Doctor of Philosophy.

French

The Department provides a three-year course, French Language and Literature I, II and III, which is the basic major for all students. Its objectives are proficiency in spoken and written French, a knowledge of literary history, a training in the methods of literary criticism, and an appreciation of works by important writers from the seventeenth century onwards. The Department provides an additional sub-major, French Studies A and B—literature of the Middle Ages and sixteenth century. Candidates for the Degree of Bachelor of Arts with Honours in French are required to take all five units in their first three years. A further unit, French Studies C—aspects of nineteenth-century literature, will be discontinued after 1973. The fourth-year (final honours) syllabus consists of literature of the twentieth century, further studies in the literature of earlier periods, and advanced language work.

The research interests of the present staff lie in the following fields: medieval romances and chronicles, the novel and theatre in the nineteenth and twentieth centuries, and the cinema.

Geography

The Department offers a balanced coverage of teaching and research in physical and human geography. Opportunities are provided for the student wishing to specialise in fields of systematic geography and to study aspects of development in South Asia, South-East Asia and Australia. Students may obtain training in appropriate quantitative techniques and in modern research methods.

All students are regarded as potential honours students. Formal admission to the honours course takes place at the beginning of fourth year which is devoted exclusively to geographical studies. Students who aim to take half-units in Economic Geography, Social Geography, Climatology or Geomorphology or the unit Applied Geography should include either first-year Statistics or a unit of Mathematics (General, Pure or Applied) among their first-year units.

Research work being carried on in the Department ranges widely, including aspects of geomorphology, climatology and hydrology, economic, social and political geography of areas in Australia, South-East and South Asia.

Close relations are maintained with the Department of Human Geography and with the Department of Biogeography and Geomorphology.

Germanic Languages

For the Pass Degree of Bachelor of Arts the Department offers a three-year course in German language and literature, a two-year course in German studies, a two-year course in Swedish language and literature, and a one-year course in Dutch. The three-year course is designed to give students a good command of spoken and written German, an acquaintance with German civilization, a knowledge of literary history, a training in the methods of literary criticism, and an appreciation of works by major writers from the eighteenth century onwards. German studies consists of the history of the language together with literature of the Middle Ages and of the sixteenth and seventeenth centuries. Candidates for the degree with honours take all five of these units with some extra work in their second and third years. The fourth-year syllabus consists of a deepened study of selected aspects of German or Germanic languages and literatures. A course in Elementary German is specially designed to provide, in one year, a practical knowledge of German for those who have not previously studied the language. Students who undertake further work during the holidays may qualify for German I by means of an entrance test. German I (S) caters for the needs of social science students; literary texts are replaced by reading material on German history and politics.

The research work of the staff has extended to both linguistics (present-day German usage, bilingualism, translation) and literature (medieval textual criticism, literary theory, modern German authors). Research work currently undertaken by postgraduate students concerns the work of Grass and the figure of the outlaw in pioneer literature, particularly the Icelandic sagas. There has been continuous interest in the field of Scandinavian languages and literatures, mainly modern Swedish and Danish.

History

The four courses available in history for first-year students proceeding to pass degrees in arts, economics, prehistory or law, are History IA (Australian), History IB (Expansion of Europe), History IC (British), and History ID (Rise of Christendom). In later years the choice is from History IIA (Australian 1831-1858), History IIB (American), History IIC (African), History IID (Modern Revolutions), History IIE (Merrie Englande 1154-1399 [not taught in 1973]), History IIF (Renaissance and Reformation), History IIG (The Early Mediterranean), History IIIA (Australian 1919-1973), History IIIB (American 1892-1972), History IIIC (Revolts and Insurgencies), History IIID (The English Revolution), History IIIE (Pacific), History IIIF (Hellenistic World). Honours courses consist

in more extensive explorations of phases and aspects of the periods listed above, together with an introduction to the masters of historical writing, for the light they throw both on these topics, and on the fundamental questions of method and understanding in the study of the human past (Historiography). The fourth-year honours students pursue a course of special study. Successful honours students at present proceed direct to the degree of Master of Arts by writing a thesis, pass students who wish to take the degree of master must first study Historiography, together with one of the honours degree subjects, attend classes on the techniques of historical research, write a thesis of approximately 15,000 words, and pass a qualifying examination.

Linguistics

Linguistics, a social science, seeks to investigate the general nature of human language. The Department provides a three-year course for the pass degree, open to students in the Faculties of Arts and of Asian Studies. It aims to provide a balanced coverage of all aspects of linguistics. Thorough training in theoretical methods, including those of transformational grammar, is supplemented by a field methods course in which students apply their theoretical knowledge to the description of some aspect of a little known language. Instruction is also given in historical linguistics, semantics, and phonetics, with lectures supplemented by performance classes. Courses are also offered in Australian Aboriginal Linguistics, Austronesian Linguistics and Romance Linguistics. The honours degree involves extra work in the second and third years and a fourth year of study, which includes a short thesis.

Supervision can be provided for theses on Australian Aboriginal linguistics, generative syntax, semantics and some other areas of linguistic theory, for the degrees of Master of Arts and Doctor of Philosophy. A one-year qualifying course is available for students who have a first degree in some other subject, and wish to go on to a higher degree in linguistics.

Mathematics

The Departments of Pure Mathematics and Applied Mathematics each offer full courses for pass and honours degrees. These courses may be taken concurrently by a student specialising in mathematics as part of a degree of bachelor in arts or science, while sections of these courses may also be taken by students specialising in other subjects.

The courses for the pass degree extend over three years giving an introduction to the basic mathematical disciplines and their applications. The honours degree requires additional work in mathematics including a fourth year of study. It may be taken either as an honours degree in pure and applied mathematics, or in each separately, or as a degree in either of these combined with some other

subject, such as statistics or theoretical physics. A combined honours course in pure mathematics and philosophy is also provided. Beyond this the Departments offer postgraduate courses leading to the degrees of master and Doctor of Philosophy. The major research interests of the Departments are at present in group theory, abstract analysis, algebraic topology, differential equations, numerical analysis, theoretical astronomy and hydrodynamics.

Medieval Studies

Courses in Medieval Studies are conducted by one full-time member of staff who is attached to the Department of English. There may possibly be contributions from time to time by other lecturers.

There are at present two pass courses, Medieval Studies A, which is concerned with twelfth and thirteenth-century Europe, and Medieval Studies B, which is devoted to Dante. The aim is to approach medieval civilization as a whole, without stressing divisions such as history, literature, law or sociology.

Medieval Studies A may not be taken until the completion of one year of university studies, and is a prerequisite for Medieval Studies B, with which it may constitute a sub-major.

The courses may be taken in various combinations with other subjects in the Faculty of Arts so as to create mixed majors or sub-majors. The courses may thus provide a continuation of or complement to medieval work in other departments.

Philosophy

The Department engages in teaching and research work in all the main fields of philosophical inquiry. Its teaching program comprises six unit courses for arts students, designed also, in some cases, to be of value to students in other faculties, and special honours courses to which students reading for the pure honours degree in philosophy devote their whole time in their third and fourth years. Combined honours courses are provided for, and the Department, in conjunction with the Department of Pure Mathematics, currently teaches a combined honours course in philosophy and pure mathematics. Research work at present is concerned mainly with problems in metaphysics, philosophical logic, and the history of logic, problems of time, philosophy of language, philosophy of law, ancient philosophy, the philosophy of action and of the social sciences, ethics and the philosophical study of ideologies. Facilities are available for students doing postgraduate work in arts on these and other philosophical problems.

Political Science

The Department offers courses at both pass and honours levels in political theory, comparative political studies, public policy and administration, political sociology and international relations for the degree of bachelor in either arts or economics. For

the arts degree, political science units may be combined with a wide range of units offered by other departments in the Faculties of Arts, Asian Studies and Economics. For the economics degree, a margin of choice is available but there is a core of prescribed units in economics and statistics. Particular units offered by the Department may also be approved for inclusion in courses for the degrees of Bachelor of Arts (Asian Studies) and also in the combined arts/law and economics/law courses. An honours degree course in political science requires, besides the special (fourth) honours year, additional work at the higher standard in four of the ten units undertaken in the first three years of the course.

Prehistory and Anthropology

The Department is being established in 1973. While teaching began in Prehistory in 1972, Anthropology will be taught only from 1974. The Department will engage in teaching and research work with an emphasis on Pacific and Australian peoples. Undergraduate courses will be offered at both pass and honours levels, but the full details will not be available until after the appointment of the Professor of Anthropology. Advanced courses will include laboratory and field instruction and will be fully operative by 1975.

The Department maintains close relations with the Departments of Anthropology, Biogeography and Geomorphology and Prehistory in the Research School of Pacific Studies. During 1972, a first-year course in Old World Prehistory and a second-year course in Pacific and Australian Prehistory are available.

Psychology

See the Faculty of Science.

Russian

For the Pass Degree of Bachelor of Arts a three-year course in Russian is offered. This is designed to provide facility in reading, writing and speaking Russian, and a critical appreciation of representative works of Russian literature. No previous knowledge of the language is assumed. Candidates for the degree with honours in their second year take additional courses in Russian literature and language including Old Church Slavonic and in their third and fourth years take additional courses in language and either in the comparative philology of the Slavonic languages or in Russian literature, society and thought.

The chief areas of research interest of the present staff are the comparative philology of the Slavonic languages, phonetics, modern Russian syntax and morphology, and modern Russian and Soviet literature.

Supervision is available for candidates for the degrees of Master of Arts and Doctor of Philosophy.

Sociology

The Department was established in 1970 with the appointment of the foundation professor. Sociology was taught to undergraduate students for the first time in 1971.

While the Department must be wholly committed to the teaching of sociological perspective, its major orientation is a professional commitment to sociology. This takes two forms. First, all students majoring in sociology (except those taking an option in anthropology) are required to take at least one unit in statistics together with intermediate units in theory and research methods or in selected substantive areas which include—sociology of education, deviance and social control, sociology of minority groups, sociology of religion, social stratification, anthropology, sociology of Aboriginal Australians, demographic analysis, population trends and policies.

The second, more professionally oriented program, consists of a sequence of courses designed to bring students face to face with the theoretical and methodological problems of sociological research and also to bring them to the interface of such research with computer technology in the most meaningful way. This program leads to admission to the Honours School of Sociology.

The degree of master may be taken in either of two ways, depending on the student's first degree. If the first degree is in sociology, the degree of master is by thesis. If the first degree has been taken in another subject, the student will proceed by course work and thesis, the course work consisting of eight semester courses which include philosophy of social science, sociological theory, methods and statistics and several topics in research methodology or selected substantive areas of sociology.

Admission to the graduate program is highly competitive and will be restricted to candidates who can show evidence that they intend to pursue research activity, or use their sociological perspective beyond what is required to fulfil their degree requirements.

THE FACULTY OF ASIAN STUDIES

Asian Civilizations

In order to acquaint the student with Asian culture, seven special courses are presented. The introductory course in Asian civilizations gives a general survey of the social forces which moulded the peoples of Asia. It integrates their civilizations into the wider picture of Asian history and world history itself. In the second and third-year courses the student is offered a choice between a Far Eastern, a South-Eastern Asian and a South Asian specialisation. The Far Eastern courses deal in some detail with the history, institutions and thought of China and Japan. The South-Eastern

courses cover the continental countries of the area, together with Indonesia and the Philippines. The South Asian courses cover the area of the present-day India, Pakistan and Ceylon. In all three regions, apart from political history, emphasis is also given to archaeology, literature, philosophy, art, religion and anthropology. Courses are also given on two of the major religions of Asia, in the form of one-year units in Buddhist Civilization and Islamic Civilization (the latter taught jointly with the Department of Indonesian Languages and Literatures). These may be combined with the first-year unit Introduction to Asian Civilizations to form a major.

Special second and third-year courses are provided for honours students, and intensive training in special aspects of Asian civilization is given in fourth-year honours courses. Research supervision for the degrees of Master of Arts and Doctor of Philosophy is provided in all the regions covered by the Department.

Chinese

The full three-year course includes both modern and classical Chinese. The course in modern Mandarin aims to develop a practical skill and an active command of the Chinese language as spoken and written today. The first year is wholly devoted to basic language study. The more advanced second and third-year courses include readings of a representative selection of contemporary literature, newspaper texts and documentary prose.

Classical Chinese is taught from the first year as a separate major. In the second and third years the students read an extensive selection of classical and medieval texts composed by China's great philosophers, historians, essayists and poets.

A fourth-year honours program provides intensive courses in either classical or modern literature.

The Department also offers a single unit in symbolism in Chinese calligraphy and painting.

Indonesian Languages and Literatures

The courses offered are Bahasa Indonesia and Malay I, II and III, and Javanese A and B. Instruction in certain other West Austro-nesian languages (Minangkabau, Sundanese, Balinese) can be arranged as required.

Bahasa Indonesia and Malay I is devoted to Bahasa Indonesia, the national language of Indonesia, as a modern language, and is designed to give the student competence in the basic skills of speech, reading and composition.

Bahasa Indonesia and Malay II is likewise modern in orientation, and aims to develop a more active command of the language. During this year, emphasis is laid on the cultural and documentary aspects of the texts studied.

Bahasa Indonesia and Malay III extends the work done in the second-year course, and is directed towards an understanding of Bahasa Indonesia/Malay as a linguistic system, to the development of practical skills and to an encounter, through their writings, with significant literary personalities.

Javanese A is a course in the literary language, accepted as standard since the seventeenth century. Prescribed texts include selections from local chronicles and Javanese religious and ethical works. Javanese B is a course devoted to the forms of the language extant between the tenth and the sixteenth centuries. Prescribed texts include selections from Old Javanese historical works, court poems and renderings of the great Indian epics.

The Department also offers a unit in Elementary Literary Arabic for the benefit of students with a special interest in the Islamic period of Indonesian-Malaysian civilization. It is available for students not enrolled in any of the other units offered by the Department.

Since many of the standard works for studies in the Indonesian field (dictionaries and grammars for linguistic work, monographs and articles for historical studies) are in Dutch, a two-hour per week tutorial class in Dutch is provided within the Faculty. This is currently the honours component of Bahasa Indonesia and Malay II. Separate enrolment is not necessary.

Japanese

The Department offers two types of courses. The three-year course in Japanese language at either pass or honours standard is designed to provide competence in the modern language for those who require it as a means of communication or as a tool of research, for example in social sciences. A student who has completed this course will be reasonably fluent in speaking and in reading modern materials, although a short period of practice in the country would be desirable for full control of the language. Since the course requires no previous knowledge, it calls for a considerable effort of study. A survey course on Japanese literature in translation is available as a second-year unit.

For students who plan to specialise in Japanese language or literature the Department provides in addition to the basic language courses, a third-year unit in literary Japanese. Students in this category normally plan to take courses in the Honours School of Japanese.

In the fourth (honours) year work is selected from further study of Japanese linguistics, literature (modern or pre-modern), historical background and teaching methodology, taking into account the needs and interests of the student.

The research interests of the Department are at present primarily in the field of Japanese linguistics and language teaching.

South Asian and Buddhist Studies

The Department is mainly concerned with the Old and Middle Indo-Aryan languages, i.e. Sanskrit, Prakrit and Pali.

The three-year course offered by this Department concentrates on classical Sanskrit, the main cultural language of South Asia. Sanskrit is a prerequisite for the study of the history and the cultural background of ancient India and her neighbours. It is of interest to students of historical and comparative linguistics and also provides a basis for the study of modern Indian languages. The first year is devoted to the study of grammar and the reading of selections from the Epics and easy prose texts. Works studied in the second and third years represent a diversity of styles and subject matter.

The additional work prescribed for the four-year honours course includes the study of Pali, Prakrit, Vedic and more difficult Sanskrit texts. While Pali and Prakrit are necessary for understanding Buddhist and Jain texts written in these Indic languages, Vedic is indispensable for the study of Vedic culture, the basis of Brahmanical tradition. Seminars on Chinese and Tibetan Buddhist texts are held for postgraduate students.

A three-year course in Hindi Language and Literature is being offered. For the time being, Hindi is included in the Department of South Asian and Buddhist Studies.

A one-year course in Literary Persian is also available.

THE FACULTY OF ECONOMICS

Accounting and Public Finance

The Department undertakes research and offers courses in accounting and public finance in the Faculty of Economics. Accounting is studied as an academic discipline among the social sciences. Emphasis is therefore placed on theoretical aspects of accounting and on its role in relation to business management, public administration and the formulation of national economic policy.

Accounting I considers accounting as an information system concerned with recording, measuring and interpreting economic transactions and activities. Accounting II is a course in managerial accounting and business organisation. There are five third-year semester units in accounting as follows: public authority accounting; national economic accounting; financial accounting theory; company finance; accounting control. The course in public authority accounting is concerned with accountability and planning-programming-budgeting systems, while the course in national economic accounting considers different kinds of national accounting systems. Financial accounting theory is an advanced course in income measurement and valuation theory, while company finance is especially concerned with the theory of financial management.

Accounting control deals with auditing and accounting information systems.

A fourth (honours) year is available to students wishing to specialise in accounting.

The two semester units in public finance are normally taken in the third year of the pass degree. They are Welfare and Taxation, and Expenditure and Fiscal Institutions. A fourth-year honours course is also available in public finance.

A graduate who has obtained a degree of bachelor in economics or commerce at a recognised university may enrol for the degree of Master of Economics in accounting or public finance. Suitably qualified graduates may also undertake studies and research in accounting or public finance leading to the degree of Doctor of Philosophy.

The Department's research activity is concerned mainly with problems of financial accounting theory, managerial accounting, behavioural aspects of accounting information, planning-programming-budgeting systems, national accounting systems, taxation policy, public expenditure theory, federal financial relations and resource allocation in the public sector.

Administrative Studies

A Chair of Administrative Studies is in the process of being established in the Faculty of Economics for the purpose of developing a degree of master by course work in administrative studies. Courses for the degree, which will be oriented towards the needs of the public sector, are not expected to be fully operative before 1974, but preliminary units may be available in 1973.

Economic History

The Department conducts teaching and research in economic history and history of economic thought, its courses being available both in the Faculty of Economics and the Faculty of Arts. The units offered deal chiefly with modern periods. Economic History I is intended as an introductory survey; it is concerned primarily with British development from the late eighteenth century to the Second World War and American economic experience in the twentieth century. Economic History II offers an intensive course on the economic development of Australia. There are four third-year semester units. Three of these cover the economic development of modern Japan since c. 1867, problems of underdevelopment in India since 1947, and economic experience in selected European and North American economies since 1945. The fourth seeks to illustrate applications of economic analysis to selected historical problems. History of Economic Thought discusses the development of economic theory in relation to economic problems and policies since the seventeenth century.

A fourth (honours) year is available to students wishing to specialise in Economic History.

The Department's research interests lie mainly in Australian economic history, population economics and the history of economic thought. For the latter, materials are available in the Kashnor Collection in the National Library of Australia, as well as the University Library.

Economics

Economics can be studied in the Faculty of Economics or as part of courses in four other faculties. Thus the study of economics can be combined with many other disciplines. Increasing attention is given to treating economics as a quantitative discipline which draws concepts from statistics, accounting and mathematics.

The economics major consists of three one-year courses, in which the student studies economic theory and the main problems of economic policy. Throughout, the course is closely related to Australian conditions, but much attention is given to international economics and the economic affairs of nations with whom Australia has important trade relations. In addition to the three central courses, there are courses in public finance, mathematical economics, labour economics, agricultural economics, history of economic thought and economic geography.

Honours students are required to take the pass course with some additional honours work in the first three years and a fourth honours year in which they do advanced work in economics. The Department offers postgraduate courses in economics for the degrees of Master of Arts and Master of Economics and supervises students for the degree of Doctor of Philosophy.

Political Science

See the Faculty of Arts.

Statistics

Statistics is concerned with the process of drawing inferences from data which have been generated by some mechanism in which chance elements play a part. As such its study is closely associated with that of the Theory of Probability. The Department provides a course in statistical methods for economists and for other social and biological scientists. In addition a series of courses is given dealing with the theory of the statistical methods as well as their practice. These courses, which are mathematical in content, also deal with various applications of the Theory of Probability so that a considerable part of that range of subjects which is often called 'Operational Research' is covered.

Research in the Department at present consists of work in mathematical statistics and pure and applied probability, and in the applications of statistical methods. Fields of special interest are time

series analysis, multivariate analysis, econometrics, queuing and renewal theory, limit theorems of probability, Markov chains and theories of traffic flow.

Centre for Research on Federal Financial Relations

The Centre was established in 1972 for the purpose of undertaking and sponsoring research on all aspects of Australian federal financial relationships. It will also provide opportunities for postgraduate study and publish the results of its research. The work of the Centre will be especially concerned with intergovernmental financial relations (including the problems of local government), with special reference to the following main areas: (a) expenditure functions; (b) intergovernmental co-operation; (c) taxation; (d) grants; and (e) constitutional issues affecting financial relationships. The Centre is attached to the Department of Accounting and Public Finance and is being financed by means of a special research grant from the Commonwealth Government.

THE FACULTY OF LAW

The Faculty of Law offers courses for the degree of Bachelor of Laws, the Degree of Bachelor of Laws with Honours and the degree of Master of Laws. Supervision is also offered to candidates for the degree of Doctor of Philosophy. A full-time student can complete the undergraduate course for the degree of Bachelor of Laws in four years. The course may also be taken part-time.

It is possible to complete a combined arts/law, Asian studies/law or economics/law course leading to qualification for the two degrees in five years of complete full-time study.

The Faculty also introduced in 1972 a degree of Bachelor of Laws for graduates in other disciplines with a good academic record in their first degree. A full-time student may complete the course in three years and a part-time student in five years.

A student taking the Bachelor of Laws degree course receives basic training in New South Wales, Victorian and Commonwealth law. In addition to the inclusion of legal subjects of direct practical value, the course includes subjects which have a more general perspective making possible an appreciation of the totality and function of law in modern society. A student may take a general course or may specialise in his third and fourth years in either the commercial law or public law fields.

The degree of Bachelor of Laws is recognised in Victoria, New South Wales and the Australian Capital Territory as a professional qualification. Australian National University graduates may, subject to completing certain postgraduate requirements prescribed in the two States and the Australian Capital Territory, practise in Victoria and the Australian Capital Territory, as a barrister and solicitor, or in New South Wales as a barrister or solicitor.

LEGAL WORKSHOP

A Legal Workshop course of six months duration was offered for the first time in 1972 by the Faculty of Law. The concept is a novel one in Australia but there have been overseas experiments, particularly in Canada.

The chief aim of the Legal Workshop course is to introduce the graduate student to an understanding of the professional skills and techniques which are required for the practice of law. It is designed to teach the student how to apply and adapt the legal knowledge and the intellectual skills which he has acquired during his academic course to the problems which arise in legal practice.

The course provides common training for all practitioners, whether they ultimately propose to practise as barristers or solicitors, or both. It consists mainly of practical instruction and exercises in professional problems and procedures, but also includes instruction in office management and procedures, accounting and professional conduct. Some instruction is given in additional subjects which are not part of academic training, but the amount of substantive law to be studied is kept to a minimum. In all areas of instruction, the emphasis is not on telling or showing these students what to do, but making them do it themselves under supervision and subject to correction.

The course is available to a limited number of graduates with the degree of Bachelor of Laws or those qualified to graduate with the degree of Bachelor of Laws from any Australian university.

Completion of the Legal Workshop course is recognised as a qualification for admission to practice in the Australian Capital Territory and in New South Wales subject to limitations before a solicitor may obtain a full practising certificate. A person who has by virtue of a workshop qualification been admitted to practice in the Australian Capital Territory is eligible for immediate admission in Victoria. Barristers and solicitors of the Supreme Court of the Australian Capital Territory may also be admitted as barristers or conditionally as solicitors in New South Wales subject to the condition that they were not at the time of their admission in the Australian Capital Territory admitted to practice in the Supreme Court of any State.

THE FACULTY OF SCIENCE

Biochemistry

Biochemistry is concerned with studying living things by using chemical procedures and concepts. The undergraduate course provides a general introduction to modern biochemistry with the possibility of some specialisation, particularly in molecular genetics and the biochemistry of development and metabolic regulation; the honours year is designed primarily as an introduction to independent laboratory work. The Department has facilities for postgradu-

ate work leading to the degrees of Master of Science and Doctor of Philosophy. The research interests of the Department are centred around the biochemistry of development and differentiation and the control of metabolic processes. Topics under investigation include—RNA metabolism in *Drosophila* mutants in relation to development; the comparative biochemistry of arbovirus replication in insect and mammalian cells in tissue culture; sequence studies on RNA; the biogenesis of mitochondrial membranes and the relation of calcium movements in mitochondria to the mechanism of oxidative phosphorylation; the regulation of metabolism in various mammalian tissues with special emphasis on the role of membranes; the biochemistry of proteins, phospholipids and nucleic acids during insect metamorphosis and the biochemistry of early amphibian development.

Botany

Instruction is given in botany leading to the pass and honours degree of Bachelor of Science. Facilities are available for research leading to the degrees of Master of Science and Doctor of Philosophy. The main research interests of the Department at present are studies in genetics, experimental taxonomy, plant physiology particularly relating to development, photosynthesis and biophysics; also studies in mycorrhizae, ecology and environmental analysis.

The Department transferred to the permanent Botany Building in 1968. This building is conveniently located between the Zoology Building and the Forestry Building. A group of eight glasshouses for raising plants for experimental use has been provided on the campus on a site immediately adjoining that of the building. Several phytotron cabinets are available for controlled environment studies, both in the Department and in the Ceres phytotron itself. A building housing eight of these, forms part of the glass-house-field plot complex. Facilities are available for work in the field.

Chemistry

The Department presents three-year courses in chemistry for the Pass Degree of Bachelor of Science and four-year courses for the Degree of Bachelor of Science with Honours. While the fields of inorganic, organic and physical chemistry are developed simultaneously in the first year, there are separate strands in the following years which the student may take together or in part. In the fourth year of the honours course some specialisation is encouraged and the student obtains an introduction to research.

Students enrolled for the degrees of Master of Science and Doctor of Philosophy can work in the usual fields of pure chemistry, or in certain aspects of applied chemistry. The research program at present includes investigations in—X-ray crystallography, co-

ordination chemistry, geochemistry, photochemistry, high temperature reactions, organic natural products, heterocyclic synthesis, thermochemistry, molecular spectroscopy, Mössbauer spectroscopy, macromolecular systems, gas phase reaction kinetics, aspects of quantum chemistry. There is also an active group investigating the chemistry of wool fibres.

Forestry

The Department was established in 1965 as the national centre for higher forestry education. The first year of the four-year forestry course leading to the degree of Bachelor of Science (Forestry) is taken in other science departments of this University or in science departments of other universities by arrangement. Normally the second year is taken partly in the Department of Forestry and partly in other science departments of this University, whilst the last two years of the course are taken wholly within the Department and lead to pass or honours degrees.

Research facilities are available for students taking the degrees of Master of Science and Doctor of Philosophy. The major research interests of the Department are silviculture, tree physiology, wood science, resource and recreation management, and forest mensuration, biology, ecology, pathology, pedology, soil fungi, operations research, economics and utilisation.

The Department also provides a course leading to a degree of Master of Science in Forest Management. The course is a one-year residential course involving attendance at nine specified units and the submission of a substantial essay.

Geology

The Department offers the normal course of instruction in geology for the three-year pass degree, and for a four-year degree with specialisation, as well as for the Degree of Bachelor of Science with Honours. In addition, facilities are provided for research towards the degrees of Master of Science and Doctor of Philosophy. The principal research interests in the Department are in the fields of invertebrate palaeontology and micropalaeontology, igneous and sedimentary petrology; stratigraphy; structural, economic and petroleum geology; and crystallography.

Mathematics

See the Faculty of Arts.

Physics

In addition to the regular pass and honours courses of instruction in physics towards the degree of Bachelor of Science, facilities are provided for research towards the degrees of Master of Science and Doctor of Philosophy. The major research interests in the Department are in the fields of atomic collision processes in solids, solid

state physics and thermoluminescence dating, structure of atomic nuclei, laser physics, and high-temperature gas dynamics using shock tunnels.

The Department is housed in a well-equipped building which is provided with adequate workshop and service facilities to support both the teaching and research programs.

Psychology

Courses in psychology are planned to contribute to the general educational background of students rather than to give specific professional training. Their concentration is upon core psychological theory and technique upon which any of a variety of applications in research, teaching, vocational guidance, counselling or industrial personnel administration may be built.

The emphasis is upon the understanding of behaviour, personality and interpersonal interaction as both biological and social phenomena. Courses are designed to provide a sound basis of psychological method and findings for advanced research in psychology or for the practice of psychology as a profession.

From the courses offered, a variety of study programs may be constructed from a single unit general survey to an intensive honours program. A student may read psychology for a pass degree or an honours degree in arts or in science, and in either case for a single major in association with other relevant units or for greater specialisation in psychology itself.

The Department pursues no co-ordinated research program but has research interests and facilities for postgraduate students in the areas of group behaviour, the counselling relationship, personality theory, the development of thought processes and perception, learning, general experimental and physiological psychology.

Theoretical Physics

The Department, which is housed in the Physics Building, offers courses in theoretical physics at third and fourth-year levels for the pass and honours degree of Bachelor of Science. Facilities are provided for research leading to the degrees of Master of Science and Doctor of Philosophy. At present the principal research interests in the Department are in the fields of quantum mechanics, scattering theory, plasma-physics, astrophysics, general relativity theory and optical aberration theory.

Zoology

Zoologists study all aspects of animal life. Courses for undergraduates extend over four years for an honours degree, three years for a pass degree. The work of the fourth year consists mainly of research projects. There are extensive facilities for graduates working for the degrees of Master of Science or Doctor of Philosophy in the laboratory or in the field. Research interests of members of

the Department include—(a) cell physiology and ultrastructure; (b) comparative physiology and biochemistry; (c) ecological energetics; (d) ecology of vertebrates; (e) endocrinology and developmental biology; (f) entomology; (g) ethology (behaviour), especially of mammals; (h) parasitology; (i) reproductive physiology of marsupials. The Department is in a new, well-equipped building, with a highly skilled technical staff.

COMPUTER CENTRE

The Computer Centre provides the computing service to the University, undertakes research into Computer Science, and directs scholars enrolled for the degree of Doctor of Philosophy. Members of the staff of the Centre are available to advise and assist in the planning and execution of computing projects. They provide introductory courses in computer programming and related topics, and more advanced courses and seminars in appropriate problem areas.

The Computer Centre is equipped with a Univac 1108 with 196K words of core store, drum, disc and tape backing store, line printer, card reader, and sixteen interactive terminals; an IBM 360/50 with 256K bytes of core store, disc and tape backing store, card reader and line printer; and a PDP-11/45 with 24K words of core, segmentation hardware, disc, tape and DEC tape backing store, card reader, line printer, paper tape reader, and graph plotter.

Academic staff of the Centre undertake research in two main areas—computer systems and scientific data processing. The main computer systems activity is currently directed to the implementation of a campus computer network, and to this end a DGC NOVA computer has been used to multiplex terminals on the 360/50, a general purpose link for communicating between sixteen bit computers has been designed and tested, and an interface between the U1108 and PDP-11/45 is under construction. The major line of research in scientific data processing is in numerical analysis and its applications. Numerical procedures for fitting mathematical models to data are being investigated, and important contributions have been made to least squares fitting problems, optimisation, numerical differentiation, and several improperly posed problems. Several projects are being undertaken in the numerical solution of differential and integral equations.

An important consideration in the research work of the Centre is the development of interdisciplinary contacts, and staff are encouraged to participate in joint projects with members of other departments, and to seek applications of their research by consultation and the provision of computer programs.

Undergraduate training in Computer Science is undertaken by a group in the Department of Statistics in the School of General Studies.

CENTRE FOR CONTINUING EDUCATION

The role of the Centre is to make the resources of the University available to the Australian community at large. In so doing, it also helps bring the concrete problems and concerns of Australian society to the specific attention of scholars.

The Centre fulfils its task in five general ways—

(a) *Refresher and Diversification Courses.* These are generally intensive courses of a few weeks' duration which enable people already qualified in particular professions or engaged in administration and managerial work to refresh their understanding of their own discipline, to catch up on recent developments, or to undertake the study of a new discipline necessary to their occupation.

(b) *National Seminars.* Many questions of public interest and national importance require discussion and analysis in the light of the latest knowledge and of practical experience. The Centre continues to provide a forum for such discussion by bringing together both academic and practical expertise not only from within this University but also from universities, institutions, government departments and business organisations throughout Australia and beyond.

(c) *Encounters.* The Centre finds that some questions of public and national importance may best be dealt with by bringing together in an informal and confidential encounter the representatives of various interests. Encounters of this kind, being on 'neutral' ground and assisted both by academic input and the Centre's own expertise in educational structure, enable the participants to thrash out their common problems in a fruitful and constructive way. In both the encounters and the national seminars the Centre seeks, wherever practicable, to employ an interdisciplinary approach and so promote the essential exchange of knowledge and experience between experts in different fields.

(d) *The Class Program.* This consists of a wide range of teaching given by means of evening classes which draw on the staff of a large number of University departments. The class program represents a service to the people of Canberra and district by which adults can continue their education in many diverse fields.

(e) *Research and Training.* The growing importance of continuing education as a dimension both of educational institutions and of society at large requires the Centre to engage constantly in research into the philosophy and methods of continuing education, to evaluate its own operations, and to provide training in this field for practitioners in Australia and neighbouring countries. The Centre also provides consultative services to other bodies.

GENERAL INFORMATION

ADMISSION AND TRAINING OF RESEARCH STUDENTS

The University undertakes the training of research students, most of whom become candidates for the degree of Doctor of Philosophy or for a degree of master.

Graduates with an honours degree, or its equivalent, from a recognised university and with a capacity for research may apply at any time of the year for admission. Inquiries should be directed to the Academic Registrar.

Degree of Doctor of Philosophy

The course for the degree of Doctor of Philosophy normally extends over three years during which time the student carries out research under the supervision of a member of the academic staff of the Institute of Advanced Studies or of the School of General Studies, in accordance with a prescription approved by the appropriate Board. Those whose area of study makes field-work important are given opportunities of undertaking such field-work and may receive contributions towards any additional expenses. Periods on field-work are counted towards the 'attendance' requirements.

The student is also given training in the techniques required for the pursuit of his research and opportunity to consider the relationship of his specialised work with a more general background. In most cases a student is required to attend some seminar classes and to present interim papers.

The principal objective of a candidate for the degree of Doctor of Philosophy is the submission of a thesis based upon his research. He is normally required to defend his thesis at an oral examination.

A candidate for the degree of Doctor of Philosophy, or a student on a similar but non-degree course, who does not hold a scholarship or award providing exemption is required to pay fees totalling \$141 per annum including a general service fee of \$21.

Several scholarships and awards are offered each year to enable students from Australia and elsewhere to come to the University and study for the degree of Doctor of Philosophy. Medical scholarships may be awarded to those legally qualified to practise medicine. Applications for the award of a scholarship may be made at any time, but the main selection of scholars is made in March, June and November-December each year.

Degree of Master

Students may proceed by research and thesis to the degree of Master of Arts, Master of Arts (Asian Studies), Master of Economics, Master of Laws or Master of Science. A course for the

degree of master by full-time research is normally between one and two years, but in certain cases a student may proceed by part-time study for a longer period of up to four years.

The degrees of Master of Economics and of Master of Agricultural Development Economics are available by course work and examination, as is the appropriate master degree by a combination of course work and research in the Departments of English, Forestry, Linguistics, Psychology and Sociology.

Candidates for a degree of master who do not hold a scholarship or award providing exemption are required to pay a first admission fee of \$8, a course fee of \$216 and an annual general service fee of \$26.

Approximately thirty-five scholarships are offered each year to students wishing to study for a degree of master. Applications for these awards close on 31 October each year.

ADMISSION AND DEGREE COURSES IN THE SCHOOL OF GENERAL STUDIES

Descriptions of the degree courses in arts, Asian studies, economics, law and science which are available in the School of General Studies are given in the *Faculty Handbook*; the Handbook contains details of syllabuses and book lists, admission and enrolment procedure, fees, examinations, student organisation and student residence.

UNIVERSITY HOUSE

University House is under the control of a governing body consisting of the Master and eight Fellows. It was formally opened on 16 February 1954 by H.R.H. The Duke of Edinburgh and provides accommodation for approximately 150 resident members and visitors to the University.

Membership

The following persons are eligible for membership:

- (a) members of the Council of the University;
- (b) members of the staff of the University (academic and non-academic) who are graduates of a university;
- (c) members of Convocation;
- (d) students enrolled for degrees of master or for the degree of Doctor of Philosophy;
- (e) such other persons as are invited by the Master and Fellows.

The governing body may from time to time invite to membership of the House, in addition to those in the above categories, persons of distinction. The annual subscriptions (due at the beginning of March and current for one year from that date) are \$6 for those enrolled for degrees, or receiving salaries or stipends up to the

minimum salary of a lecturer, and \$12 for all others. Visitor membership may also be granted by the governing body to any person attached to the University as a visiting research worker or a visiting student. Dues for visitor members are fixed according to their length of stay, with a minimum rate of \$2. Members (except for visitor members) who leave Canberra may keep their name on the books by a single payment of \$5. This entitles them to all the privileges of membership whenever they return to Canberra for short visits.

Residence

All members are eligible to reside in University House, subject to rooms being available and to the approval of the Master. Preference is given to research students and to non-permanent members of the academic staff of the University. Rooms are also reserved for short-term visitors to the University, and there are a few double sets available for married couples without children.

The weekly charges for rooms, including all meals, for graduate students are as follows:

Small single room in Eastern Annexe	\$26.60
Small flat (bed-sitting-room and bathroom)	\$32.20

These charges do not include the charges for individual telephone calls, for which a separate account will be rendered.

The charges for permanent residents, other than graduate students, are—

Small flat (single room with bathroom)	\$37.80
Large flat in East or West Wing (sitting-room, bedroom, bathroom)	\$45.15
Large flat in North Wing (sitting-room and large verandah, bedroom and bathroom)	\$49.00
Two-room suite for married couple	\$67.55

Bed and breakfast rates may be introduced in 1973; full particulars can be obtained from University House.

Meals in Hall

Breakfast	—Monday to Saturday	
	inclusive	8.00–8.45 a.m.
	Sunday	8.00–9.00 a.m.
Lunch		12.30–1.15 p.m.
Dinner	—Monday to Friday	
	inclusive	6.00–6.25 p.m. (self service)
	—Saturday	6.35–7.00 p.m. (waitress service)
	—Sunday	6.00–7.00 p.m. (self-service)
Tea	—Sunday	6.00–7.00 p.m. (waitress service)

Drinks are available before lunch and dinner in the bar to members or residents for cash or chits. Wines or beer are available at lunch and dinner on a similar basis, and may also be obtained for private consumption.

Guests

Members are entitled to bring guests into the common-rooms and into Hall. The charge for their meals is \$1.20 for breakfast, lunch or high tea and \$1.80 for dinner (in cash or coupons; 15 cents extra on account).

Guest-rooms are sometimes available for casual visitors for short periods and requests for their use should be made to the Front Office.

Private Functions

Rooms are available as follows:

Private Dining-rooms

May be booked by members and residents for six to sixty guests for cocktail, dinner or supper parties.

Drawing-room

The drawing-room is principally for the use of women members and wives of members of University House.

Use of the drawing-room for functions (approved by the Master, in consultation with the Convener of the drawing-room) is obtained by booking in advance at the University House Manager's Office (telephone 49 3313).

Meetings-room (in the Eastern Annexe basement)

Approval for the use of this room, which may be booked by members and residents for meetings, social functions, etc., must be obtained from the Manager.

Bookings for these rooms should be made through the Manager's Office. The kitchenette in the Eastern Annexe may be used in conjunction with functions held in the drawing-room.

Members may not, without the special permission of the Master, Deputy Master, or senior Fellow in residence, have exclusive use of any of the other public rooms for private entertainment.

Common-rooms

Three common-rooms are available to members—the main room which contains a wide selection of newspapers and periodicals, the library-room and the music-room. The television-room is located over the archway in the P.A.B.X. building in Garran Road.

Games-rooms are provided in the basement and include a billiards-room (two tables), a table-tennis-room, and two music practice-rooms. The games-rooms and meetings-room are available for parties by arrangement.

Laundry facilities are available.

Library

University House contains a small library designed to provide suitable facilities for general reading and reference purposes, with particular regard to literature, the fine arts, Australiana and fiction.

Members are entitled to borrow books, other than works of reference, from this library. Not more than three works may be borrowed at any one time and no book should be kept for longer than three weeks. All books borrowed must be entered in the register provided.

The House also possesses a record library. Records may be borrowed by members in accordance with the rules prescribed by the Gramophone Committee.

Brochure

An illustrated brochure containing full particulars of University House is available on request at the Front Office.

STUDENT RESIDENCE

Students, where possible, are assisted to find suitable residential accommodation in Canberra.

Accommodation is available in:

- (a) University controlled halls of residence—Bruce Hall, Burton Hall, Garran Hall and Graduate House;
- (b) Affiliated Colleges—John XXIII College, Ursula College and Burgmann College;
- (c) University approved private lodgings.

Bruce Hall, Burton Hall and Garran Hall

These halls of residence are situated on the University site at the western end of University Avenue and along Daley Road. They are specially designed to meet the needs of students and are equipped with single study-bedrooms providing accommodation for both men and women students as follows:

Bruce Hall:	218 students
Burton Hall:	240 students
Garran Hall:	230 students

Each of the three halls is in the charge of a warden and governing body assisted by deputy wardens and subwardens. The halls also accommodate a number of teaching staff of the University.

Residence fees, exclusive of vacations, payable at Bruce Hall, Burton Hall and Garran Hall, for 1973 will be as follows:

Bruce Hall—

First Term:	\$240
Second Term:	\$220
Third Term:	\$240

Burton Hall and Garran Hall—

First Term:	\$250
Second Term:	\$200
Third Term:	\$250

Graduate House

Graduate House is a University hall of residence built on University land in the suburb of Turner, a short walk from the campus. There are 100 self-contained units for single men and women students at a weekly rental of \$12.50 and eight self-contained flats for married students without children for which a weekly rental of \$15.00 is charged. A common-room, squash court and sauna bath are available and there are adequate car parking facilities on the site.

Graduate House is managed by a governing body whose membership is comprised largely of resident students elected by the residents of the House. There is a full-time secretary to the governing body who manages the day-to-day operations.

Affiliated Colleges

Three affiliated colleges have been established on the University site and are located in Daley Road. The recently erected colleges offer single study-bedrooms and all necessary student facilities. A limited amount of accommodation is available for University staff members.

John XXIII College is conducted by the Dominican Fathers and offers places for 300 male students. Residence fees, exclusive of vacations, for 1973 will be as follows:

First Term:	\$256
Second Term:	\$230
Third Term:	\$250

Ursula College is conducted by the Ursuline Nuns and offers places for 192 students. Residence fees, exclusive of vacations, for 1973 will be as follows:

First Term:	\$280
Second Term:	\$265
Third Term:	\$280

Burgmann College, jointly sponsored by six Australian Churches, has places for 250 men and women. Fees for 1973 will be as follows:

First Term:	\$265
Second Term:	\$260
Third Term:	\$265

Further information may be obtained from the Master, John XXIII College, the Principal, Ursula College, and the Master, Burgmann College, respectively.

Admission

Applications for admission to a hall of residence or affiliated college should be made in person to the Accommodation Officer, Student Administration, or by letter to the Academic Registrar by 15 December each year. Application forms are usually available in September each year.

Private Lodgings

Each year the University seeks for students private lodgings which it inspects and approves. Inquiries concerning such accommodation should be made to the Accommodation Officer, Room 24, Student Administration.

UNIVERSITY UNION

The Union is an integral part of the University. Its constitution, staff which aims to provide in the University a common meeting place for its members and to promote their intellectual and social interests, and general welfare.

The University Union is a society of university students and granted by the Council, gives it a substantial degree of freedom in the management of its affairs. It is managed by a Board of Management, the membership of which includes representatives of the University Council, the students (undergraduate and post-graduate) and the staff.

Located on University Avenue opposite the J. B. Chifley Building of the University Library, the Union occupies University premises specially designed for its purposes. The premises provide dining, common and recreation-rooms, rooms for student clubs and societies, a milkbar, coffee-lounge, bar-lounge and service shop. The services provided by the Union cover a wide range, including functions.

Membership is open to students, staff, members of the Council and Convocation, and graduates of the University. All enrolled students are required to be members. A full-time student undertaking an undergraduate course pays an entrance fee of \$11 and an annual fee of \$24; a part-time student pays the entrance fee of \$11 and an annual fee of \$16. Out of the general services fee payable by students enrolled for the degree of Doctor of Philosophy, the amount of \$6 is allocated as the annual Union fee. The amount of \$11 is so allocated from the fee payable by students enrolled for the degrees of master. The annual membership fee for a member of the staff is \$12 with exemption from entrance fee; however, for members of the Staff Centre the total fee is \$7 (with exemption from entrance fee). The fee for life membership is \$50 plus the

entrance fee. Past students of the University, however, may obtain a concession rate at \$16 if they were members of the Union for three years as full-time or for five years as part-time students. A staff member may be admitted to life membership without additional payment after eight consecutive years of membership at the annual rate of \$12 (with exemption from entrance fee). Life membership is not normally available to undergraduates.

UNIVERSITY FELLOWSHIPS

Council has established the office of University Fellow as a means of honouring, after his retirement, a distinguished scholar engaged in major scholarly work which could be completed within the University in a reasonable period. A small committee of Council considers nominations. Maximum tenure is three years and no more than three fellowships can be current at one time.

ASIAN FELLOWSHIPS

The Council of the University has established an Asian Fellowship to which it will invite distinguished scholars from the staffs of Asian universities who during their stay at the Australian National University will undertake research or teaching in their chosen academic disciplines. The University hopes that the establishment of this Fellowship will help to bring Australia more immediately into contact with the civilization, the knowledge and the philosophy of Asian peoples. Appointment is made on the advice of a selection committee.

An Asian Fellowship is normally held for no less than six or more than twelve months and no more than one fellowship may be held at any one time.

The following Asian Fellows have been appointed:

- 1965—Prince Subhadradis Diskul
—Professor Wang Gungwu
- 1967—Dr Li Chi
- 1968—Professor Shigeru Hayashi
- 1969—Professor Ahmed Hasan Dani
- 1971—Professor M. S. Rajan
- 1972—Professor Ho Peng Yoke
- 1973—Professor Syed Hussein Alatas

CREATIVE ARTS FELLOWSHIPS

Fellowships in the Creative Arts were established by the University to encourage creative work in the arts in Australia. There are two classes of Fellowship. One—and this is awarded only rarely—is for promising or established people to enable them to spend a substantial period of their work free from economic anxiety; the

second category is for distinguished artists, usually from abroad, including overseas Australians, to enable them to contribute to artistic life in Australia for shorter periods.

The following Fellows have been appointed:

- 1965 —Mr Sidney Nolan
- 1965-1966—Mr John Perceval
- 1967 —Mr George Dreyfus
- 1968 —Mr Rodney Hall
- 1969 —Miss Christina Stead
- 1969-1970—Mr Arthur Cantrill
- 1971 —Mr Stanislaw Ostoja-Kotkowski
- 1971 —Mr Arthur Boyd
- 1972 —Mr Don Banks
- 1972 —Miss Norma Redpath

SCANDINAVIAN—AUSTRALIAN CULTURAL FUNDS

In 1952, to mark Australia's Jubilee Year, the Danish, Norwegian and Swedish communities in Australia each raised a fund for the encouragement of close and friendly scientific, educational and cultural relations between their countries and Australia, particularly by assistance towards meeting the expenses of visits in either direction. The administration of the funds was vested in the Australian National University.

Applications for grants from the income of the funds are invited in September or October each year from persons who wish, for reasons connected with their work, to visit one of the Scandinavian countries. Grants, which are usually of the order of \$100-\$200, are awarded for visits to one of the three Scandinavian countries in rotation over a three-year period. For example, awards for 1972-73 were for visits to Sweden; in 1973-74 awards will be for visits to Norway and in 1974-75 for visits to Denmark—this cycle to be repeated in subsequent years. Grants are payable on 1 July each year.

The University retains the right to make grants at other times in suitable cases, if funds allow. The availability of the funds is also made known in the Scandinavian countries for the benefit of persons intending to visit Australia.

EMERITUS PROFESSORS

The University has established a Roll of Emeritus Professors of the University. Council may from time to time direct the insertion on the roll of names of professors who have left the University in circumstances such that they are unlikely to take a fresh appointment to a chair. A list of Emeritus Professors is given in Former Officers of the University.

AUSTRALIAN NATIONAL UNIVERSITY PRESS

The Press is the scholarly publishing department of the University. It is under the administrative and financial control of the Vice-Chancellor. The Editorial Committee, which replaced the former Publications Committee, is the academic body responsible for the editorial policy of the Press. The present imprint was established in 1965, and the first Director was appointed late in 1967.

Publications by the Press reflect many of the research and teaching activities of the University. In the last few years the publishing program has expanded considerably and is now as large as any university program in Australia.

UNIVERSITY CO-OPERATIVE BOOKSHOP LTD

At the invitation of the University the University Co-operative Bookshop Ltd established a bookshop on the University site early in 1966. From 1973 the Bookshop will be located in the newly completed concessions area situated between the J. B. Chifley Building of the University Library and the new University Union Building. The Bookshop stocks books which are prescribed or recommended for reference or preliminary reading in connection with courses of study in the School of General Studies and a good range of other books likely to be of interest to staff and students. The Bookshop is willing to order any book not held in stock.

A member of the Co-operative receives an annual dividend which consists of a percentage of the amount spent on books. The membership fee is \$5 payable once (not annually) and is returnable upon termination of membership. Normal discount on book purchases applies to all staff and students who are not members of the Co-operative.

A University Bookshop Committee with membership drawn from the academic boards, students' associations and the University Union has been established to consult with the management of the Bookshop on the needs of the users of the Bookshop.

Hours of operation of the Bookshop are 9.00 a.m. to 5.00 p.m. Monday to Friday. During terms the Bookshop remains open until 6.30 p.m. on Tuesday.

THE JOHN CURTIN MEMORIAL LECTURE

The John Curtin Memorial Lecture, administered by the Research School of Social Sciences and made possible by a gift from the Honourable Dr J. J. Dedman, is to be given in the latter half of each year. The inaugural lecture was held in September 1970.

THE MORRISON LECTURE

The George Ernest Morrison Lecture was founded by Chinese residents in Australia and others in honour of Dr G. E. Morrison,

who was a native of Geelong, Victoria. The lecture was established with the object of improving cultural relations between China and Australia, the intention of the founders being that it should be delivered each year on a subject broadly covered by the title Ethnology. From the time of its inception until 1948 the lecture was associated with the Australian Institute of Anatomy, but in that year the responsibility for the management of the lectureship was accepted by the University.

OTHER UNIVERSITY LECTURES

The University arranges a program of public lectures each year. In 1968 an annual series of University Lectures was introduced: these lectures are intended to develop a theme of wide interest in such a way as to cross boundaries of specialisation and encourage understanding between the natural and the social sciences.

It is also the University's practice to invite newly appointed professors to give Inaugural Lectures.

OFFICIAL PUBLICATIONS

The Australian National University Calendar is published in two parts. *Part 1*, published in March of every other even year, contains general information about the University, descriptions of the work of the departments, lists of staff, graduates and members of Convocation. *Part 2* is to be a loose-leaf edition with amendments and published annually in mid-year containing the Acts and Ordinances, together with the Statutes and Rules of the University. The Calendar can be obtained from the Registrar, price \$1.50 (post free) for each part.

The University furnishes an annual report of its academic financial and other transactions for the calendar year to the Governor-General, and the report is tabled in Parliament, usually in the following August. Copies of the *Annual Report* are available free on request to the Registrar.

The University also publishes a *Faculty Handbook* which contains details of the courses available in the School of General Studies. The *Faculty Handbook* can be obtained from the Academic Registrar, price \$1.50 (post free).

The University Information section of the Registrar's Office produces two news publications—*The Australian National University News* and *ANU Reporter*. The News is published three times each academic year—in April, July and November—and circulates to members of Convocation, staff and students. It contains articles by members of the University, news of Convocation members, and staff appointments. The Reporter appears on the second and fourth Friday of each month throughout the academic year and circulates to staff and students. It contains news of activities and

developments within the University, Council business, a diary of events and classified advertising. Copies of the News and the Reporter are available on request to University Information.

Several other publications containing general information about the University are available free on request to the University Information section of the Registrar's Office.

Staff Association

STAFF ASSOCIATIONS

The objects of the Association include advancing the welfare of members in respect of ethical and professional standards, and salaries and other conditions of service. The Association is a member body of the Federation of Australian University Staff Associations which also undertakes salary negotiations and concerns itself with matters of interest to academic staff generally.

Membership is open to members of the academic staff and some other persons in the full-time service of the University possessing university degrees or equivalent qualifications. Tutors, demonstrators, research assistants and departmental assistants are admitted to associate membership.

General Staff Association Incorporated

From 1953 to 1969 the Association represented non-academic staff in all matters of employment and conditions of service. The Association then voluntarily vacated the industrial field in favour of the several registered unions entitled to represent staff within the University.

The Association now concentrates on the field of welfare and all non-industrial matters of common interest to the support of staff, including transport, traffic and parking, housing, campus facilities and safety, canteen and discount services and actively supports the Pre-School and Child Care Centre.

The Australian National University Administrative and Allied Officers' Association

This Association was formed in August 1965 to advance the welfare of its members, to maintain and improve the conditions of their employment, and to promote the progress of the University.

The Association has established an agreement with the University which enables the interests of its members to be considered in a spirit of co-operation and conciliation. The agreement calls for the appointment of a private negotiator in the event of disagreement. This is a unique situation in University employer and employee relationships.

The Association is registered federally as an organisation under the Conciliation and Arbitration Act 1904-1972.

Staff Council

In 1966 the Staff Association, the General Staff Association Incorporated, and The Australian National University Administrative and Allied Officers' Association joined together to form a Staff Council, having as its main aim the promotion and negotiation of benefits mutual to members of the three groups. In late 1971 the Staff Council was reactivated. The Health and Research Employees Association and the Association of Architects, Engineers, Surveyors and Draftsmen of Australia have elected to participate in the work of the Council.

STUDENTS' ASSOCIATIONS

There are two students' associations in the University—the Australian National University Research Students' Association and the Australian National University Students' Association. Through these Associations the views of students on matters affecting their welfare and the welfare of the University are made known to the academic and administrative staff.

Membership of the Australian National University Students' Association, and of the Sports Union, is compulsory for all students enrolled in undergraduate courses in the School of General Studies.

The Students' Association organises Orientation Week, student clubs and societies, Bush Week, and a student loan fund, which grants loans to students in need of financial assistance. The student newspaper, *Woroni*, is published on a regular basis.

The executive committee of the Sports Union, called the Sports Council, is the controlling body for all student sport in the University.

All students enrolled for the degrees of master, Doctor of Philosophy, in the Legal Workshop Course and for courses of research not leading to a degree, are members of the Australian National University Research Students' Association and through payment of the compulsory general services fee, are also members of the University Union and the Sports Union. They are also eligible to become members of clubs and societies affiliated with the Students' Association. The Research Students' Association has at its disposal a small welfare fund, loans or grants from which may be made to research students at the discretion of the trustees of the fund, who are themselves research students. It also operates thesis typing and group insurance schemes, both in conjunction with the University.

MEMBERSHIP OF INTER-UNIVERSITY BODIES

The University is a member of the Association of Commonwealth Universities, whose headquarters are at 36 Gordon Square, London, WC1H 0PF. The Secretary-General of the Association, Sir Hugh Springer, K.C.M.G., C.B.E., will gladly answer inquiries about the

University, with whose development he has been closely concerned. Details of appointments and awards offered by the University are available from the Association.

The University is also a member of the International Association of Universities, whose offices are at 19 Avenue Kléber, Paris 16, and of the Australian Institute of Nuclear Science and Engineering.

VICE-CHANCELLOR'S DISCRETIONARY FUND

The Vice-Chancellor has at his disposal a Discretionary Fund from which he can make grants, or more usually loans, to staff and students of the University who are suffering particular financial hardship.

Applications may be made to the Vice-Chancellor; inquiries may be made to him or to a senior administrative officer.

UNIVERSITY WELFARE SERVICES

Dean of Students

The Dean of Students is responsible for the co-ordinated functioning and development of the University Health Service and the University Counselling Service. He also maintains liaison with the Chaplains appointed by Churches to work within the University and with student activities not controlled directly by the University. These include the University Union and student associations. The Dean is concerned generally with all matters connected with the welfare of the student body.

University Health Service

The University Health Service is staffed by a Director (a full-time medical practitioner), a full-time woman medical practitioner, a part-time woman medical practitioner and a nursing sister. Any student, part-time or full-time, undergraduate or postgraduate, may seek the Director's advice on health problems. Appointments to see staff of the Health Service can be made at the office of the Health Service located on the ground-floor on the south side of the new Sports Recreation Centre on the corner of North Road and University Avenue.

University Counselling Service

The University Counselling Service is available to both graduate and undergraduate students of the University and members of staff. It is located on the first-floor on the south side of the new Sports Recreation Centre on the corner of North Road and University Avenue and offers the following services:

Counselling: dealing with study problems, adjustment to academic life and research, or personal difficulties.

Graduate Appointments: providing career information, scholarship information and arranging campus interviews.

Part-time and Vacation Employment: helping students to find suitable part-time work and/or employment during University vacations. Students may register for employment by calling in personally or by telephoning 492442.

Efficient Reading: offering reading improvement programs in the reading laboratory housed at present in temporary quarters in Childers Street (Mrs L. M. Rose, telephone 492972).

Efficient English: offering individual and tutorial programs in English expression (Mr B. G. Palfrey, telephone 493661).

There is no charge for these services and strict professional confidence is maintained. Inquiries and appointments may be made at the office or by telephoning 492442.

ENROLMENTS

Total Enrolments at the Australian National University

	<i>Full-time</i>	<i>Part-time</i>	<i>Total Students (Net)</i>
1969	2,331	1,938	4,238
1970	2,519	2,099	4,603

	1971			1972		
	<i>Full-time</i>	<i>Part-time</i>	<i>Total</i>	<i>Full-time</i>	<i>Part-time</i>	<i>Total</i>
Total enrolments (Gross)	2,839	1,965	4,804	3,045	2,027	5,072
Adjustments for students in more than one category	—	18	18	3	25	28
Total number of students (Net)	2,839	1,983	4,822	3,042	2,002	5,044

Enrolments in the Institute of Advanced Studies and University Centres

	<i>Full-time</i>	<i>Part-time</i>	<i>Total Students</i>
1969	293	9	302
1970	357	6	363

	1971			1972		
	<i>Full-time</i>	<i>Part-time</i>	<i>Total</i>	<i>Full-time</i>	<i>Part-time</i>	<i>Total</i>
Higher doctorates	—	—	—	—	—	—
Ph.D.	357	7	364	341	4	345
Degrees of master	—	7	7	—	5	5
Master's qualifying	—	—	—	—	2	2
Non-degree post-graduates*	4	—	4	7	—	7
Total—Institute of Advanced Studies	361	14	375	348	11	359

* Courses of research not leading to a degree.

Enrolments in the School of General Studies

	<i>Full-time</i>	<i>Part-time</i>	<i>Total Students (Net)</i>
1969	2,038	1,929	3,936
1970	2,162	2,093	4,240

	1971			1972		
	<i>Full-time</i>	<i>Part-time</i>	<i>Total</i>	<i>Full-time</i>	<i>Part-time</i>	<i>Total</i>
<i>Postgraduates</i>						
Ph.D.	138	44	182	140	48	188
Degrees of master	77	103	180	92	110	202
Master's qualifying	13	68	81	29	90	119
Legal Workshop	—	—	—	26	—	26
Non-degree post-graduates*	2	—	2	2	—	2
<i>Total postgraduates</i>	230	215	445	289	248	537
<i>Undergraduates</i>						
Degree of bachelor—						
— arts	793	855	1,648	794	820	1,614
— arts/law	168	27	195	207	13	220
— Asian studies	169	50	219	173	63	236
— Asian studies/law	—	—	—	8	—	8
— economics	285	423	708	300	420	720
— economics/law	59	3	62	81	3	84
— law	107	127	234	124	123	247
— science	531	125	656	561	127	688
— science (forestry)	124	13	137	147	11	158
<i>Total bachelors</i>	2,236	1,623	3,859	2,395	1,580	3,975
Non-degree under-graduates**	12	131	143	13	188	201
<i>Total undergraduates</i>	2,248	1,754	4,002	2,408	1,768	4,176
Total—School of General Studies	2,478	1,969	4,447	2,697	2,016	4,713

* Courses of research not leading to a degree.

** Single units—not towards a degree of bachelor.