Research School of Social Sciences
ANNUAL REPORT 1977

The Institute of Advanced Studies
Australian National University
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THE DEVELOPMENT OF THE RESEARCH SCHOOL

The Research School of Social Sciences is one of seven postgraduate Schools of the Institute of Advanced Studies of the Australian National University.* It was formally established by the Australian National University Act of 1946, which stated that one of the functions of the University should be 'to encourage, and provide facilities for, postgraduate research and study, both generally and in relation to subjects of national importance to Australia'. The primary function of the School has been the pursuit of these aims within the social sciences.

The first appointment to the School was made in January 1949, and by December 1952 seven Departments had been established in Canberra. These were Demography, Economics, History, Law, Philosophy, Political Science, and Statistics. In 1962 Economic History was separated from Economics and set up as a separate Department, and in 1961 Sociology was added. In addition to these nine Departments there are now three Units (History of Ideas, Urban Research and Education Research) which are essentially concerned with promoting research of an interdisciplinary character, and a Centre for Foreign Politics (Western Europe). The School has also a Section responsible for the production of an Australian Dictionary of Biography, an Archives Section responsible for the collection of business records which are of direct interest to the research of a number of Departments, and a Computer Services Section run jointly with the Research School of Pacific Studies.

The formal establishment of the Research School in Canberra preceded the appointment of its first Director. For the first seven years the School operated with a Dean, G. Sawer, Professor of Law. In 1956 Sir Keith Hancock accepted appointment as Professor of History and Director of the School. He was succeeded by P.H. Partridge, Professor of Social Philosophy, who held this office from July 1961 until August 1968, and he in turn by W.D. Borrie, Professor of Demography, from August 1968 until August 1973. Professor Sawer became Acting Director in August 1973 and continued in that capacity until August 1974 when A.J. Youngson, Professor of Political Economy at Edinburgh University, took up the Directorship.

The Act of 1946 which founded the Australian National University, besides making provision for an institution primarily concerned with research and research teaching in selected fields, also stipulated that 'the University may provide for the incorporation in the University of the Canberra University College' — a college founded in 1929 in association with the University of Melbourne, pending the establishment of a fully independent teaching university in Canberra. The association of the two institutions was brought about in 1960. At April 1977, the University was an institution with an academic staff of 971, with 528 students enrolled for the Ph.D. degree, 360 for the Master's degree, and 4,999 undergraduates. The work of the Research School of Social Sciences in this structure in 1977 is given in the accompanying Report.

* The foundation Schools were Social Sciences, Pacific Studies, Physical Sciences, and the John Curtin School of Medical Research; subsequently Schools of Chemistry, Biological Sciences and Earth Sciences have been added.
THE RESEARCH SCHOOL OF SOCIAL SCIENCES

Director:

Assistant Registrar and School Secretary:
G.L. Hutchens, BEcon Qld.

Business Manager:
P.J. Grimshaw

Professor and Head of Department:
J.C. Caldwell, BA NE, PhD ANU

Professor:
W.D. Borrie, OBE, MA NZ, Hon DLitt Tas.

Professorial Fellow:
C.A. Price, BA Adel., MA, DPhil Oxon.

Senior Fellows:
L.H. Day, BA Yale, MA, PhD Columbia
L.T. Ruzicka, Ing, CSc Prague
G.W. Jones, BA NE, PhD ANU

Research Fellows:
Christabel Young, BSc Adel., PhD ANU
Helen Ware, BA Durh., PhD Lond.
R.J. Pryor, BA, DipEd, MA Melb., PhD Malaysia
D.W. Lucas, BA(Econ) Man., MSc, PhD Lond.
P.F. McDonald, BCom NSW, PhD ANU
S.K. Jain, BSc Agra, MSc Patna, PhD ANU
T.H. Hull, BA Miami, MA Hawaii, PhD ANU
Valerie J. Hull, BA Mich., MA Hawaii, PhD ANU

Postdoctoral Fellows:
D.T. Rowland, MA Auck., PhD ANU

Visiting Fellows:
Professor S. Goldstein, Brown University, USA
Professor C.J. Mode, Drexel University, USA
Dr F.E. Hawkins, University of Toronto, Canada
Professor S.N. Eisenstadt, Hebrew University of Jerusalem, Israel

ECONOMICS

Professor and Head of Department:
T.W. Swan, BEc Syd.

Professor:
F.H. Gruen, BA, BCom Melb., MS Wisconsin, MA Chicago

Professorial Fellow:
A.R. Hall, BEc Syd., PhD Lond.
Senior Fellows:
  B.D. Haig, MCom Melb.

Senior Research Fellow:
  W. Kasper, Dip Volksw Saarbrucken, PhD Kiel (until March)

Research Fellows:
  J.W. Freebairn, MAgEc NE, PhD Davis
  P.A. Volker, BA, BEcon Qld, MCom NSW, PhD Simon Fraser
  G.A. Withers, BEc Monash, AM, PhD Harvard

Visiting Fellows:
  Professor W.E. Kasper, University of New South Wales, Duntroon (from April)
  Professor D.C. Rowan, The University, Southampton, England
  Dr T.J. Valentine, Department of Statistics, School of General Studies, Australian
  National University, Canberra, ACT

Professor and Head of Department:
  N.G. Butlin, BEc Syd.

Professorial Fellow:
  A. Barnard, BEc Syd., PhD ANU

Senior Fellow:
  N.G. Cain, BCom Melb., PhD ANU

Fellows:
  J.J. Pincus, BEc Qld, MA, PhD Stanford
  K.A. Tucker, BCom, MCom, BA NZ, PhD Lond.

Research Fellows:
  D. Coward, BA Tas., PhD ANU

Programmer:
  W. Naughton, BSc Adel.

Research Officer:
  Kyra L. Suthern, BA Syd.

Honorary Fellow:
  Emeritus Professor Sir Keith Hancock, KBE, MA Oxon., Hon DLitt Rhodes, Birm.,
  Cape T. and Oxon., Hon LittD Cantab., Melb. and ANU, FAHA, FBA

Visiting Fellows:
  Emeritus Professor J.A. La Nauze, Canberra
  Dr C. Forster, Department of Economic History, School of General Studies,
  Australian National University, Canberra, ACT

Professor:
  O.O.G. MacDonagh, MA NUI and Cantab., PhD Cantab., BL King’s Inn

Professor and Acting Head of Department:
  K.S. Inglis, MA Melb., DPhil Oxon.
Professorial Fellow:
  F.B. Smith, MA Melb., PhD Cantab.

Senior Fellows:
  J.J. Eddy, BA Melb., DPhil Oxon.
  A.W. Martin, MA, DipEd Syd., PhD ANU

Fellow:
  Cameron Hazlehurst, BA Melb., DPhil Oxon.

Research Fellows:
  G.W. Martin, MA, PhD Cantab.
  P.G. Edwards, BA WA, DPhil Oxon.
  D.M. Schreuder, BA Rhodes, DPhil Oxon.
  J.E. Cookson, MA Cant., PhD St And.

Visiting Fellow:
  Professor J.F.C. Harrison, University of Sussex, England

Professorial Fellows and Joint General Editors:
  N.B. Nairn, MA Syd.
  A.G. Serle, BA Melb., DPhil Oxon.

Research Fellow:
  C. Cunneen, BA N'cle NSW, MA Lond., PhD ANU

Research Officer:
  H.J. Gibbney, BA WA, MA ANU

Professor and Head of Department:
  S.J. Stoljar, LLB, LLM, PhD, LLD Lond., of Gray’s Inn, Barrister at Law

Fellow:
  P.G. Sack, Assessor Hamburg, PhD ANU

Visiting Fellows:
  Dr P.J. Evans, University of Auckland, New Zealand
  Dr R.D. Lumb, University of Queensland
  Professor R.S. Summers, Cornell University, USA

Professor and Head of Department:
  J.J.C. Smart, MA Glasg., BPhil Oxon., FAHA

Professor:
  J.A. Passmore, MA Syd., FAHA, FASSA, FBA

Professorial Fellow:
  S.I. Benn, BSc(Econ) Lond., FASSA

Senior Fellows:
  E.M. Curley, AB Lafayette Coll., PhD Duke
  F.R. Routley, MA NZ and Prin.

Senior Research Fellows:
  M.K. Rennie, BA Syd., MA NE
  M.A. Stocker, BA Columbia, MA, PhD Harvard
Research Fellows:
M. Tooley, BA Toronto, PhD Prin.
S.H. Voss, AB Wheaton Coll., PhD Stan.

Postdoctoral Fellows:
C.E. Mortensen, BA Qld., PhD Adel.
C. Provis, BA Flin., PhD Syd.

Visiting Fellows:
Professor N.C.A. da Costa, Universidade de Sao Paulo, Brazil
Professor D. Davidson, University of Chicago, USA
Professor A.C. Jackson, Monash University
Dr M.W. Jackson, University of Sydney
Dr G.G. Priest, University of Western Australia

Professor and Head of Department:
R.S. Parker, MBE, MEc Syd., FASSA

Professorial Fellows:
T.H. Rigby, MA Melb., PhD Lond., FASSA
C.A. Hughes, MA Columbia, PhD Lond., FASSA

Senior Fellows:
D.W. Rawson, MA, PhD Melb.
P. Loveday, BA, PhD Syd., FASSA
R.F. Miller, BA Michigan, MA, PhD Harvard

Senior Research Fellow:
J.A. Ballard, BA Dartmouth, JD Harvard, PhD Fletcher School of Law and Diplomacy

Research Fellows:
G.N. Hawker, BA Adel., PhD ANU
R.F.I. Smith, MA Adel., PhD ANU
G.A. Snider, BA Indiana, MA Missouri, PhD Iowa
P.M. Weller, MA Oxon., PhD ANU

Visiting Fellows:
Professor J. Mallory, McGill University, Canada
Professor R. Pethybridge, University College of Swansea, Wales

Professor and Head of Centre:
A.L. Burns, MA Melb.

Professor and Head of Department:
F.L. Jones, BA Syd., PhD ANU, FASSA

Senior Fellow:
Jean I. Martin, PhD ANU, FASSA

Fellow:
J. Higley, PhD Connecticut
Senior Research Fellow:
T.H. Williams, MA, PhD Toronto

Research Fellows:
A. Hopkins, MA ANU, PhD Connecticut
P. McDonnell, AB Columbia, PhD Stanford
W.D. Rubinstein, PhD Johns Hopkins

Postdoctoral Fellows:
T.A. Sheppard, BA, BEc Flin.
D. Smart, DipEd, MA NE, PhD ANU

Visiting Fellows:
Emeritus Professor L. Broom, Canberra
Dr Eva Etzioni-Halevy, University of Tel-Aviv, Israel
Dr P. Glasner, Department of Sociology, School of General Studies, Australian National University, Canberra, ACT
Dr R.A. Hedley, Victoria University, Canada
Professor J.J. Mol, McMaster University, Canada
Dr D. Smart, Murdoch University

Professor and Head of Department:
P.A.P. Moran, MA, ScD Cantab., MA Oxon., DSc Syd., FAA, RFS

Professor:
E.J. Hannan BCom Melb., PhD ANU, FAA

Senior Fellows:
D.J. Daley, MA, MSc Melb., MA, PhD Cantab.
R.E. Miles, MA, PhD Cantab.

Fellow:
Susan R. Wilson, BSc Syd., PhD ANU

Senior Research Fellow:
H. Cohn, DrMath Rumanian Academy of Science

Visiting Fellows:
Professor M. Deistler, University of Bonn, West Germany
Professor D. Vere-Jones, Victoria University of Wellington, New Zealand
Professor M.S. Bartlett, FRS, University of Oxford, England
Professor G. Shorack, University of Washington, USA
Professor F. Eicker, University of Dortmund, West Germany

Fellow and Acting Head of Unit:
G.S. Harman, MA NE, PhD ANU

Professorial Fellow:
D.S. Anderson, MA, PhD Melb.

Research Fellow:
M.R. Pusey, BA Melb., DipEd Tas., MEd, DEd Harvard

Postdoctoral Fellow:
M.D. Baldock, MA Cant., PhD Columbia
Visiting Fellows:
Professor B.J. Biddle, University of Missouri, USA
Professor L.A. Glenny, University of California at Berkeley, USA
Dr M.R. Middleton, Department of Psychology, School of General Studies, Australian National University, Canberra, ACT
Professor N. Wiggins, University of Illinois, USA

Professor and Head of Unit:
E. Kamenka, BA Syd., PhD ANU, FASSA, FAHA

Professorial Fellow:
R.R. Brown, BA New Mexico, PhD Lond., FASSA

Senior Fellow:
S.L. Goldberg, BA Melb., BLitt Oxon., FAHA

Research Fellows:
A.D. Megill, BA Sask., MA Toronto, PhD Columbia
M.A. Rose, BA, PhD Monash

Honorary Fellow:
Emeritus Professor P.H. Partridge, MA Syd.

Visiting Fellow:
Mr C. Arnold, University of Sydney

Professorial Fellow and Head of Unit:
G.M. Neutze, M AgrSc NZ, DPhil Oxon., FASSA

Fellows:
P.N. Troy, BE WA, DipTP Lond., M Tech NSW, MICE
P.F. Harrison, Dip TCP Syd., M Arch NSW, L FRAIA

Research Fellows:
H.L. Kendig, BA California, PhD Southern California
I.G. Manning, B Com Melb., PhD ANU
I.C. Alexander, MA WA, M Phil Lond.

Visiting Fellow:
Mr C.J. Lloyd, Canberra

Chairman of Inquiry and Professor:
W.D. Borrie, OBE, MA NZ, Hon DLitt Tas.

Research Fellow:
L.R. Smith, BA Syd., PhD NSW

Research Officer:
O.B. Di Iulio, B Ec Monash
STUDENTS ENROLLED FOR THE DEGREE OF DOCTOR OF PHILOSOPHY IN 1977 AND TOPICS OF RESEARCH*

ALBERTO, J.M.
'The Economically Active Female Population of Australia, 1947-1971: Trends and Determinants'.

BALASUMBRAMANIAN, K.
'Socio-economic and Cultural Determinants of Indian Fertility'.

BONGOMA, K.B.*** (from September)
'Population Trends in Zaire and their Implications'.

BRACHER, M.D.
'The Determinants of Fertility and Fertility Differentials in Australia'.

DASVARMA, G.L.
'Mortality Differentials in Australia with Special Reference to the Period 1947-1971'.

GARDINER, P.
'Where Does the System Break Down? — A Study of Reasons for non-registration of Vital Events'.

JALALUDDIN, A.K.M.
'The Value of Children in Bangladesh'.

KHUDA, B.
'Labour Utilisation in a Village Economy in Bangladesh'.

KIRKLAND, R.J.
'Armenian Immigration and Settlement in Australia, with Special Reference to the Armenians of Sydney'.

KOTHARI, D.
'Internal Migration in India'.

LAURO, D.J.
'Demographic Response to Social Change: A Community Study in Rural Thailand'.

LOPEZ, A.D.
'Which is the Weaker Sex? A Study of the Differential Mortality of the Sexes in Australia'.

MIKKELSEN, L.B.
'Demographic and Socio-economic Differences between Return, New and Multiple Migration Flows: Australia and Canada'.

RICHARD, J.
'The Beginning of Family Limitation in Three Towns of the Sudan'.

STUER, A.
'The French in Australia'.

TREMBLAY, Louise
'A Mathematical Model of Interregional Growth with Special Reference to Australia, 1966-71'.

YOUNG, Mei Ling
'Internal Migration in Peninsular Malaysia'.

DEMOGRAPHY
| ECONOMICS  | JOHNSTON, B.G.** | 'An Economic Analysis of Resource Allocation in Government Science'. |
| HISTORY    | SIEPER, E.***    | 'A Study of Neo-Classical Invariance Principles'. |
|            | BERRYMAN, Kimberley M. | 'Great Britain and the French Refugees 1789-1802: The Administrative Response'. |
|            | DOCHERTY, J.C.   | 'A Social History of Newcastle'. |
|            | DYER, S.W.**     | 'Rural Society in Crisis: The Eastern Australian Wheat Belt between the Wars'. |
|            | FINNANE, M.J.C.  | 'Insanity and the Insane in the Later Nineteenth Century'. |
|            | HAIG, A.G.L.     | 'The Clergy as a Profession in Mid-Victorian England'. |
|            | JACKSON, H.R.    | 'Aspects of Congregationalism in South Eastern Australia, c. 1880-1930'. |
|            | MAYNE, A.J.C.    | 'Sydney: Environment and Society, 1848-1888'. |
|            | PARNABY, Margaret R. | 'The Upper Clapton Group: a Study in Unitarian Social Reform, 1830-1840'. |
|            | PETERSON, Kamoya | 'The Formation of Policy on Vermin and Noxious Weeds in New South Wales and Victoria, 1870-1930'. |
|            | TRAVERS, P.      | 'A Topic in Anglo-Irish History'. |
|            | WOODMAN, S.J.    | 'The Legal Profession in New South Wales, 1848-1914'. |
| LAW        | JESSEP, O.D.     | 'Land Tenure in a New Ireland Village'. |
|            | POWLES, C.G.     | 'Law and Custom in Central Polynesia'. |
|            | PURI, K.K.       | 'The Legal Nature of Government Contracts'. |
| PHILOSOPHY | ANGUS, G.R.      | 'Theories of Meaning'. |
|            | MARTIN, E.P.**   | 'Combination and Types'. |
McROBBIE, M.A.
'Theory of Inconsistent Systems'.

SHORTER, C.B.
'The Problem of Justification in Constructing Theories of Democracy'.

SLANEY, J.K.
'Modal Logic'.

DICKENSON, Mary
'Membership Participation and Control in Trade Unions'.

EMBURY, B.L.
'The Elector's Choice: A Theory and Its Empirical Application'.

FORTESCU, S.
'The "Primary" (i.e. work-unit) Organisations of the Communist Party of the Soviet Union'.

GERRITSEN, R.
'A Comparative Study of Pressure Groups in Ghana and Papua New Guinea'.

PERKS, M.**
'The Formation of Australian Government Policy on Industrial Relations 1945-1946'.

STANDISH, W.A.
'Local Responses to National Political Change in Chimbu District Papua New Guinea'.

STEPHENS, D.
'Power and Decision-making in the ALP 1955-1970'.

DARROCH, Dorothy**
'The Social Construction of Alternatives: Health Care as Role Allocation and Social Control'.

DAY, Alice T.
'The Changing Roles of Women in Australia'.

HOLBRAAD, Christina
'Immigrants' Perspectives on Political Activity: Study of Political Ideas of Greeks in Australia 1926-1970'.

PAKULSKI, J.
'Elites and Social Structure'.

ANDERSON, Dorothy A.
'Statistical Inference in Bivariate Distribution'.

CAMERON, M.A.
'Measurement of Transient Signals'.

DAVY, Pamela J.
'Stereology - a Statistical Viewpoint'.

HENTSRIDGE, J.D.
'The Measurement of Velocity'.

12
PICKARD, D.K.
'Statistical Inference on Lattices'.

SAUNDERS, I.W.
'Stochastic Processes in Neurobiology'.

SOLO, V.**
'The Parameter Estimation for Time Varying Linear Systems'.

SHEPPARD, T.A.** (until April)
'The High School Experience and Academic Performance'.

FORDHAM, A.
'The Interactive Effect of Student Motivation and Teacher Behaviour upon School Based Learning'.

KRYGIER, M.**
'Marxism and Bureaucracy'.

COWEN, S.
'Technik and Praxis in Contemporary German Social Thought'.

BETHUNE, G.** (until June)
'Urban Home Ownership in Australia'.

DONAND, O.
'Health Care Delivery in Sydney: A Question of Equity'.

FIRESTONE, B.** (from June)
'The Costs of Water and Sewerage Services'.

SEEK, N.
'Reinvestment in Housing'.

* This list excludes students on whom degrees were conferred in 1977 and whose names appear in the section 'Theses'.

** Student representative on Faculty.

*** Staff Candidate.
REPORT OF THE DIRECTOR

Professor A.J. Youngson

In spite of increasing financial pressure and a slight fall in the number of academic staff, research activity in the School was well maintained throughout 1977. Members of the School also helped to organise and participate in several important national and international conferences, most notably the World Congress on Philosophy of Law and Social Philosophy.

Continuing the policy of reviewing Departments/Units, the Department of Political Science was reviewed and the decision taken to seek a successor to Professor Parker, who will retire at the end of 1978. This review brought the number of Departments/Units reviewed to eight. The Vice-Chancellor has now set up a small committee with an international membership to review the School as a whole, with particular reference to new lines of research which might be introduced or old lines which might be phased out during the next few years. It is hoped to receive the report of this committee by September of next year.

A second attempt to fill the vacant Chair of Education Research proved abortive, and no further steps were taken to fill the second Chair of Law. The School decided during the year that the uncertainty created both by the financial situation and by the impending School review required the maintenance of a high degree of flexibility, and therefore all posts falling vacant are in the meantime being filled by non-tenured staff. Economies have been made by reducing the number of Research Assistants in some Departments/Units, but the School will maintain its Visitors Programme, which is of value not only to the School itself but also to other Australian universities.

The interests of the Department of Demography have continued in the following areas: (a) Australian demography with emphasis upon the dynamics of population change; (b) the processes of family building and population control in Africa, Asia and Oceania with special attention to tropical Africa, Indonesia and Thailand; (c) international and internal migration and the settlement of immigrants in Australia; (d) internal migration and urbanization in Southeast Asia, with Malaysia and Indonesia being the main areas of interest; (e) the social and economic supports for high fertility in developing countries.

Work on the Australian Family Formation Project, begun in 1970, continued with a return to Melbourne to re-interview women from the 1971 survey and to include fresh samples. The fifth monograph in this series was published. Two books resulting from the Changing African Family Project were published: *The Persistence of High Fertility*, edited by Professor Caldwell, and *The Economics and Social Supports for High Fertility*, edited by Dr Ruzicka. The immigration section of the Department continued to work on models of migration and to investigate new immigration trends from Asia (particularly of refugees). Several members of the Department were engaged on problems of Indonesian demography, and cooperation continued with the National Population Inquiry, now engaged in the final stages of its work.

For the Department of Economics, the year 1977 was marked by concentration of research upon the links between money, spending and prices in the Australian economy. Projects substantially completed range from a major history and analysis of Australian monetary policy over the last two decades to (for example) an econometric study of
'the predictability of estimated relationships between alternative instruments and monetary aggregates'. At the same time, research continued in many of the other areas mentioned in the 1976 Annual Report. This is to some extent reflected (with a time-lag) in the list of publications by members of the Department. Not yet there shown is the Demographic Data Bank, now nearing completion with information to the latest feasible date. Also, Professor Kasper, in collaboration with the Centre for Applied Economic Research (University of New South Wales), successfully organised a conference on Growth, Trade and Structural Change in an Open Australian Economy at Salamander Bay in November. The edited papers and proceedings will shortly be published.

During 1977, the major activity of the Department of Economic History was building up a computerised data bank on the relationships between the public and private sectors in Australia over the period 1900-1975. The data assembly work that has been completed covers public and private sector employment, public and private sector investment, public and private transport services, other public business undertakings and public loan raisings. Work was begun on a decomposition of State and Commonwealth Budgets to provide highly disaggregated information within such areas as cash transfers and benefits to persons by type of selected interest group, and transfers and benefits to business by industry type. This latter work will continue into 1978 when it is intended to add institutional information on government regulation of business and general economic management.

From this work, preliminary interpretations have begun in order to produce a descriptive volume on public/private sector interconnections. A first article on employment has been published.

Apart from this departmental project, further winding down work on the Botany Bay Project was carried out. Professor Butlin completed the editing of three major working papers, editorial work on a large Report on health and environment was carried out, and Dr Dan Coward continued with his history of environmental policy in Sydney, intended as the sixth and final Report of the Botany Bay Project.

The Department of History is primarily concerned with the study of Australian history, social, political, cultural and intellectual, with similar aspects of British history in the nineteenth and twentieth centuries, and with relevant comparative studies, especially those arising from British 'imperial' developments in the nineteenth and early twentieth centuries. Work in all these fields is proceeding, although emphases change from time to time according to the availability of materials for advanced research and the special interests of staff able to supervise graduate students in particular fields.

As a Department in a 'National' university, History is concerned to encourage mature research in Australia by making available, from time to time, posts on its establishment to historians from other universities for periods of up to two years, so that work already well-advanced may be completed.

In the sphere of Australian history work was done on aspects of social history 1870-1900, on the British background to Australian development 1835-1880, on the making of Australian foreign policy between 1901 and 1949, and on biographies of Sir Henry Parkes and Sir Robert Menzies. In non-Australian history research was carried out on various aspects of Irish, Canadian and South African history; work continued on the regulation of coal-mining in Great Britain 1800-1885; on a biography of Lloyd George; and on health and medical provision in Britain in the nineteenth century.
Work was also continued on Volume 7 of the *Australian Dictionary of Biography*, which will be published in 1979, leaving five volumes to complete the series. The collection of biographical reference cards now numbers about 100,000.

During the year several members of the Department were involved in planning a bicentennial history project, which it is hoped will get under way in 1978.

In the *Department of Law* Professor Stoljar continued work on his book on Moral and Legal Reasoning and began work on another book entitled *Negotiorum Gestio*. He completed editing the Codification conference papers which were published during the year, which also saw the publication of several papers written earlier.

Two very successful two-day workshops, attracting a large number of Australian academic lawyers, were held during the year: one on Property Law, the other on Consumer Protection.

Dr Sack continued work on the traditional and colonial law and history of Papua New Guinea. Visitors to the Department included a number of distinguished academic lawyers who came to Australia for the World Congress on Philosophy of Law and Social Philosophy.

The *Department of Philosophy* continued philosophical research in a number of areas. In moral and political philosophy work was done on utilitarianism, justice, human rights, political participation, abortion and infanticide, environmental problems, protection and limitations of privacy, and on the foundations of ethical argument. In metaphysics work was done on causality and statistical laws and on time. In logic research continued into relevance logic, its semantics and its proof theory, paraconsistent logic, and theories of meaning and reference and applications to the semantics of fiction. A book on relevance logic and its rivals by Mr Routley and Dr Meyer is well on the way to completion. A computer terminal was installed in the Department, by means of which large matrices can be used to test independence of axioms and also to show the plausibility of possible theorems, for which rigorous proofs can then be sought. In the history of philosophy work continued on Descartes and a translation of Descartes' *Passions of the Soul* is under way. Much work has also been done on the philosophy of education. Dr Curley's book on Descartes is now in proof, and Professor Passmore's *Science and its Critics* is in the press.

The broad concerns of the *Department of Political Science* are with the development of Australian political parties and industrial organisations; the changing structures of federal and state governments and of policy-making processes in central government; the relations between the public and private sectors in the Australian economy; the detailed recording and analysis of party voting at federal and State levels; the history of government and party institutions in the Soviet Union and of selected policies in the USSR and other East European countries; and political development in Papua New Guinea.

During the year *The Emergence of the Australian Party System* was published, edited by Professor Parker and Dr Loveday, with Dr A.W. Martin of the History Department, Research School of Social Sciences. Several members of the Department contributed chapters. The third edition of Dr Rawson's *Handbook of Trade Unions and Employees' Associations* also appeared. Members of the Department contributed to books and published articles on numerous aspects of the Australian political system, including the role of lawyers in government and the relation between occupation and voting in the Australian States.
Work continued on the Soviet Government under Lenin, and on the Soviet Communist Party and government leadership. Analysis is proceeding of the published commentary in the Soviet press on the new USSR constitution, and a study of the worker self-management system in Yugoslavia was substantially completed.

Research continues on government services, administrative development and on ethnicity in Papua New Guinea.

In the Centre for Foreign Politics Professor Burns continued reading in the strategic situations of NATO and the Warsaw Pact, and in the prospects of farther nuclear proliferation world-wide. He also studied the prospects and consequences of the policy of detente.

Mrs Crichton produced the Centre’s first occasional paper on prospects of political union in the European Community.

In the Department of Sociology analysis of the 1973 mobility survey continued, and a number of papers were published in overseas and Australian journals. Extended versions of some of these papers were published in a departmental monograph, Investigating Social Mobility, and a second volume is planned. Most of the data analysis for the Australian Leadership Study was completed, and an analysis of national leaders’ opinions was published in 1975. A second survey of these leaders’ opinions was conducted during 1977, and the results published. The final stage of the Vietnamese refugee study was completed, and data analysis for the Migrant Education Project (a joint project with the University of New South Wales) was begun. Two members of the Department collaborated on research into the education of Australians at overseas universities, especially at Cambridge; and further progress was made with an historical investigation into wealth-holding in Australia. Other research in the Department was concerned with status profiles of ethnic minorities, identity development and maintenance among migrant adolescents, and the revival of elitism as a paradigm for social thought and analysis in developed societies.

The aim of the Department of Statistics is to carry out research in mathematical statistics and probability theory, and to use these theories in other subjects such as econometrics, geophysics and genetics. In addition to training research workers in these fields, the Department provides an advisory service for people in the University who need to use statistical methods in their work.

During the year Professor Moran collaborated with Dr E.H. Hare of London, in research on parental age and sib-order in psychiatric patients and the general population. This work has resulted in a number of new discoveries about the influence of family composition on mental disease. Professor Hannan worked on linear rational transfer function systems and their estimation and on the estimation of signal velocity for transient signals. Other members of the Department worked on the mathematical theory of stereology, on stochastic point processes, on branching processes, and on assortative mating diffusion processes in genetics. Evaluation of various statistical packages available at ANU was also carried out.

From its foundation in 1968, the Education Research Unit has been concerned with studies of education and society. The approach adopted has been a multi-disciplinary one in which academic staff work on studies within their own disciplines and, from time to time, form project teams for particular investigations. The multi-disciplinary approach is of great advantage in studies of education systems because of their great complexity and the temptation to over-simplified interpretations by scholars working from the perspective of a single discipline.

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During 1977 work has been carried out in two main areas: tertiary education and the upper secondary school. In the tertiary education area projects have included studies of career development and the transition from secondary school to work and further study; a study of the social composition of entrants to tertiary education, aimed primarily to document changes which may have taken place since the abolition of tuition fees in 1974; a study of North American community college concepts and models; and a study of the governance at national, State and institutional levels of Australian colleges of advanced education.

In the upper secondary school area, there has been a set of inter-connected studies of the education process and the social effects of schooling, and work has continued on the organisation of secondary school systems.

The scholarly work of the tenured staff of the History of Ideas Unit continues to span three central areas in the history of ideas of the post-Renaissance period: the history of social thought and of legal ideas and revolutionary ideologies (Professor Kamenka); the development of concepts and problems in the social sciences (Dr Brown); the relationship between literature and thought as well as the special nature and logic of the 'ideas' embodied in works of literature and literary criticism (Mr Goldberg).

During the year the Unit was much involved in planning and running the World Congress of the International Association for Philosophy of Law and Social Philosophy, held in Sydney and Canberra. The Unit served as the Canberra centre and, with the Department of Jurisprudence in the University of Sydney, as the joint secretariat for the Congress. The Congress attracted some one hundred distinguished overseas participants and another two hundred academics, judges and lawyers from Australia and New Zealand. More than one hundred and ten papers from authors in nearly forty countries were prepared and distributed in connection with the Congress. Two volumes for the Series Ideas and Ideologies, edited by Professor Kamenka, were seen through the galley proof stage and five more volumes are in active preparation.

In October, the Australian Academy of the Humanities resolved to proceed with a major project on the History of Culture — Arts, Literature and Ideas — in Australia and suggested that the Unit cooperate closely with the Project Steering Committee and act as a centre for some of the work and seminars connected with the project. This collaboration is now under way, and the Unit and the Academy Steering Committee, chaired by Mr S.L. Goldberg, are planning a major seminar on the problems of writing a cultural history of Australia, to be held early in 1979.

Research in the Urban Research Unit is primarily concerned with the structure of urban areas, the way that structure is changing, and policy issues which relate to the arrangement of activities within cities. In urban development the private and public sectors of the economy are closely related. Public authorities play important roles as developers, supplying public housing and many important services, as well as planning and regulating private development. Much of the research is on the nature of these relationships and how the different parts fit together. The research of the Unit is policy-oriented in the sense that its results have implications for policy at all three levels of government.

Some of the empirical research of the Unit is summed-up in a book by Dr Neutze, Urban Development in Australia, published in 1977. This provides a factual account of the most significant trends in urban development, concentrating on the post-war period. It fills a gap in the information available to students and policy-makers.
Research has continued on the urban policies of the 1972-75 Labor government, and a book on that government’s land programme will be published next year. A survey of the major areas of urban policy in Australia is under way, research on the inner urban area, with particular reference to housing, has expanded, and other subjects of research include the journey to work and the scope for decentralisation of office employment from city centres.

During 1977 in Archives about 700 shelf feet of records were received, made up of approximately 450 feet of records of employer, employee and professional organisations in ten deposits and approximately 250 feet of records from three companies. A most important deposit was that from the Graziers’ Association of New South Wales of its correspondence and financial records, which documents the formation of the Country Party and covers virtually every topic of interest to the pastoral industry from the turn of the century to the 1950s.

Usage of the collection during 1977 was comparable with recent years, 654 daily visits being recorded as against 566 in 1976.

During the year additional hardware for the DEC System-10 computer was acquired by the Computing Services Section, including new disk drives and additional memory.

A decision was made by the University to develop the computer network using DECNET, and the equipment needed to link the DEC-10 into the network has been ordered.

The number of users and the amount and variety of work they do on the computer has continued to grow rapidly. This is reflected in the use of the computer by departments which had not used the machine previously, and in the continuing acquisition of terminals throughout the building.
BALASUBRAMANIAN, K.

BORRIE, W.D.

Caldwell, J.C. (ed.)

Caldwell, J.C.
'Towards a Restatement of Demographic Transition Theory', in P of HF, 1: 25-119.

Caldwell, J.C. and Caldwell, P.¹

Caldwell, J.C. and Ware, H.R.E.

Dasvarma, G.L.

Day, L.H.
HULL, T.H.

HULL, T.H. and HULL, V.J.

HULL, T.H., HULL, V.J. and SINGARIMBUN, M.

HULL, V.J.

HULL, V.J. and SALADI, R.
'Peranan Status Wanita Terhadap Penurunan Fertilitas (The Role of Status of Women in Fertility Decline)', in *Warta ZPG*, Journal of the Student Movement for Zero Population Growth, Indonesia, 32-3(3): 2-5.

JONES, G.W.

*KIRKLAND, J.R. and JANTZ, R.L.*

LAURO, D.

LOPEZ, A.D. and RUZICKA, L.T.

KOSINSKI, L.A. and PRYOR, R.J.

LUCAS, D.
LUCAS, D. and UKAEGBU, A. 1

LUCAS, D. and WARE, H.R.E.

McDONALD, P.F.

OKORE, A.

ORUBULOYE, I.O.

PRICE, C.A.

PRICE, C.A. and PYNE, P.

PRYOR, R.J.
*Belconnen Social Survey, 1976*: *Basic data for Belconnen (18 suburbs) and Ginninderra sub-sample (4 suburbs)*, Department of Demography, Canberra: 76.

ROWLAND, D.T.

RUZICKA, L.T. (ed.)
FREEBAIRN, J.W.
FREEBAIRN, J.W. and GRUEN, F.H.
GREGORY, R.G.
HALL, A.R.
HAIG, B.D.
HAIG, B.D. and WOOD, M.P.
HAMMOND, P.J.²
HAWKINS, R.G.²
KASPER, W.E.
KASPER, W.E. and McMAHON, P.F.¹
VALENTINE, T.J.

VALENTINE, T.J. and ALBON, R.P. 3


WITHERS, G.A.

WITHERS, G.A. and FREEBAIRN, J.W.

BARNARD, A., BUTLIN, N.G. and PINCUS, J.J.

BUTLIN, N.G.

CAIN, N.G.

HICKSON, J.C. 2 and BUCHANAN, M. 2

LA NAUZE, J.A.
PINCUS, J.J.

RYDER, W.²

TUCKER, K.A. (ed.)
Economics of the Australian Service Sector, Croom Helm, 1977: 443.

TUCKER, K.A.

EDWARDS, P.G.

HAZLEHURST, Cameron

HAZLEHURST, Cameron and HARRIS, J.F.¹

HAZLEHURST, Cameron and NETHERCOTE, J.R.¹

INGLIS, K.S.


MACDONAGH, O.O.G.


MARTIN, A.W.


MARTIN, A.W., LOVEDAY, P.4 and PARKER, R.S.4 (eds.)


MARTIN, G.W.


SMITH, F.B.


SACK, P.G.


STOLJAR, S.J. (ed.)


STOLJAR, S.J.


‘How is Feud-Law Law?’, in *University of Western Australia Law Review*, 1977, 13(2).

WHITE, S.R.G.2 and EDWARDS, Audrey

BENN, S.L

CURLEY, E.M.

CURLEY, E.M.

GODDARD, L.2

GRIFFIN, N.J.2

McROBBIE, M.A.

McROBBIE, M.A. and BELNAP, N.D.1

MEYER, R.K.

MORTENSEN, C.E.

PASSMORE, J.A.

ROUTLEY, F.R.


ROUTLEY, F.R. and LOPARIĆ, A.¹


ROUTLEY, F.R. and MEYER, R.K.


ROUTLEY, F.R. and ROUTLEY, V.¹


SMART, J.J.C.


SNARE, F.E.


TOOLEY, M.


BALLARD, J.A.

'Students and Politics in Papua New Guinea', in *Journal of Commonwealth and Comparative Politics*, 15(2).

HAWKER, G.N.


HUGHES, C.A.


LOVEDAY, P.


LOVEDAY, P. and WOLFERS, E.P.


LOVEDAY, P., MARTIN, A.W.* and PARKER, R.S. (eds.)


LOVEDAY, P. and MARTIN, A.W.*


LOVEDAY, P., MARTIN, A.W.* and WELLER, P.


MARTIN, A.W.* and PARKER, R.S.


MILLER, R.F.

*Tito as Political Leader and External Factors in Yugoslav Political Development*, Department of Political Science, Occasional Paper No. 14, Canberra: vi + 79.


'Political and Administrative Trends in Australian Federalism', in Publius, 7(3): 35-52.


'Soviet Domestic Developments since Khrushchev', in Dyason House Papers, 1977, 3(3): 4-8.


Der Sowjetische Ministerrat unter Kosygin, Monograph No. 21, 1977, of the Bundesinstitut fuer Ostwissenschaftliche und Internationale Studien, Cologne, 60.


SMITH, R.F.I. and WELLER, P.

STANDISH, W.A.

STEPHENS, D.H.


WELLER, P.


The Treasury and the Politics of Advice, Public Policy Paper No. 9, University of Tasmania: 15.

WELLER, P. and SMITH, R.F.I.


WELLER, P., LLOYD, B. and STEVENS, B.1

CRICHTON, Pamela

BIRCH, I6 and SMART, D.
BROOM, L.

BROOM, L. and JONES, Lancaster F.


BROOM, L. and CUSHING, R.G. 7

BROOM, L., DUNCAN-JONES, P., 8 JONES, Lancaster F. and McDONNELL, P.
Investigating Social Mobility, Departmental Monograph No. 1, Department of Sociology, Canberra, 1977: 220.

'The Social Standing of Jobs: Scores for all Australian Occupations', in Social Science Research, 6: 211-224.

'Worker Traits and Worker Functions in DOT', in Journal of Vocational Behavior, 1977, 11.


HIGLEY, J. and CUSHING, R.G. 7


HIGLEY, J., SMART, D., PAKULSKI, J. and DEACON, D.

JONES, F. Lancaster and McDONNELL, P.

JONES, F. Lancaster, McDONNELL, P. and WILLIAMS, T.

McDONNELL, Patrick and BESWICK, D. 6
'School Effects on Educational Intentions in Australia', in Education Research and Perspectives, 1977, 4: 3-12.

RUBINSTEIN, W.D.


SMART, D. and HIGLEY, J.
ANDERSON, Dorothy A.


COHN, H.


DAVY, P.J.


DAVY, P.J. and MILES, R.E.


GANI, J.² and SAUNDERS, I.W.

'Fitting a Model to the Growth of Yeast Colonies', in *Biometrics*, 1977, 33: 113-120.

HANNAN, E.J. and KANTER, M.¹


McARTHUR, N.,¹⁰ SAUNDERS, I.W. and TWEEDIE, R.L.²


MILES, R.E. and DAVY, P.J.


'Particle Number or Density can be Stereologically Estimated by Wedge Sections', in *Journal of Microscopy*, 1977.

MORAN, P.A.P.

'Statistical Epidemiology; Retrospect and Prospect', in *Bulletin of the International Statistical Institute*, 1975, 46(2): 159-162.


THORNE, A.G.⁹ and WILSON, S.R.

WILSON, S.R.


ANDERSON, D.S., BATT, K.J. and ROSENBERG, K.J.


BATT, K.J.


HARMAN, G.S.


HARMAN, G.S. and SELBY SMITH, C.


BANKS, R.J.


BROWN, R.R.

'Physical Illness and Mental Health', in Philosophy and Public Affairs, 1977, 7(1).


CATON, H.


GOLDBERG, S.L.


KAMENKA, E.


LEITH, J.A.


MEGILL, A.D.


SAWER, Marian


BLACK, J.

Public Inconvenience: Access and Travel in Seven Sydney Suburbs, Urban Research Unit, Canberra, 1977.

HARRISON, P.


MANNING, I.


NEUTZE, M.


NEUTZE, M. and POLLOCK, R.


TROY, P.N.

BORRIE, W.D.

DI IULIO, O.B. and CHUNG, Y.C.

RUZICKA, L.T.11

1. Not a member of this University.
2. Former member of the Department/Unit.
3. Member of the Department of Economics, School of General Studies, ANU.
4. Member of the Department of Political Science, Research School of Social Sciences, ANU.
5. Member of the Department of History, Research School of Social Sciences, ANU.
6. Former member of the Education Research Unit, Research School of Social Sciences, ANU.
7. Member of the Department of Sociology, School of General Studies, ANU.
8. Member of the Social Psychiatry Research Unit.
9. Member of the Department of Prehistory, Research School of Pacific Studies, ANU.
10. Member of the Department of Pacific and South-East Asian History, Research School of Pacific Studies, ANU.
11. Member of the Department of Demography, Research School of Social Sciences, ANU.
THESES

Thesis titles of work successfully submitted by research students and staff in the Research School of Social Sciences on whom degrees of Doctor of Philosophy were conferred in 1977:

STANTOW, M.G.
'A Microsimulation Model of Human Fertility: Theory and Application to the Yoruba of Western Nigeria'.

POPE, D.
'The Peopling of Australia: United Kingdom Immigration from Federation to the Great Depression'.

ATKINSON, A.T.
'The Political Life and Ideas of James Macarthur'.

LEWIS, M.J.
'Some Aspects of Infant and Maternal Health in Sydney from 1870s to 1930s'.

BESEMERES, J.
'Socialist Population and Politics: The Political Implications of Demographic Trends in the USSR, Poland and Yugoslavia'.

HEATHCOTE, Nina
'Studies in International Organizations: The United Nations Organization and the European Community'.

KITAOJI, Yuriko
'Matrifocal Family among Contemporary Aboriginal Australians'.

DUNSMUIR, W.T.M.
'Estimation for Vector Linear Time Series Models'.

PICKARD, D.K.
'Statistical Inference on Lattices'.

POLLARD, D.B.
'Topological Measure Theory, with Applications to Probability'.

DEMOGRAPHY

ECONOMIC HISTORY

HISTORY

POLITICAL SCIENCE

CENTRE FOR FOREIGN POLITICS (Western Europe)

SOCIOMETRY

STATISTICS
BARDSLEY, W.N.

‘Student Alienation and Commitment to School: A Multivariate Analysis of the Effects of Home and School Environments’.

WILSON, A.C.

‘Soviet Discussion of Art and Literature 1953-1973’.
EMPLOYMENT AND ADDRESSES OF STUDENTS AND STAFF WHO LEFT THE RESEARCH SCHOOL OF SOCIAL SCIENCES IN 1977

STUDENTS

ALLAN, R.H., Department of Economics, University of Melbourne, Parkville, Victoria, 3052.  
KLJN, N., Industries Assistance Commission, Kings Avenue, Barton, ACT, 2600.  
McMAHON, P., Industries Assistance Commission, Kings Avenue, Barton, ACT, 2600.  
PATERSON, P.R., Bureau of Agricultural Economics, NRMA House, Northbourne Avenue, Canberra, ACT, 2601.

VIRTUE, R., Australian Public Service, Canberra, ACT, 2600.  
PAUSE, G.K.H.H., Australian Public Service, Canberra, ACT, 2600.  
ATKINSON, Dr A.T., Tutor, School of Social Inquiry, Murdoch University, Murdoch, Western Australia, 6153.

JESSEP, O.D., Lecturer, Faculty of Law, University of New South Wales, PO Box 1, Kensington, NSW, 2033.

BESEMERE, Dr J., Department of Business and Consumer Affairs, Canberra, ACT, 2600.

FORTESQUE, Mr S., 50 Elliott Street, Campbell, ACT, 2601.

HENSTRIDGE, J.D., Department of Mathematics, University of Western Australia, Nedlands, Western Australia, 6009.

PICKARD, Dr D.K., Department of Statistics, Harvard University, 1 Science Centre, Cambridge, Mass, USA 02138.

POLLARD, Dr D.B., Mathematisches Institut, Ruhr-Universitat Bochum, 463 Bochum, West Germany.

BETHUNE, G., Department of Housing and Urban Affairs, (South Australia), PO Box 270, Unley, South Australia, 5061.

DONALD, O., Health Commission of New South Wales, Division of Health Services Research, 9-13 Young Street, Sydney, NSW, 2000.
STAFF

ECONOMICS
KASPER, Professor W.E., Department of Economics, Faculty of Military Studies, University of New South Wales, Duntroon, ACT, 2600.
FREEBAIRN, Dr J.W., School of Agriculture, La Trobe University, Bundoora, Victoria, 3083.

ECONOMIC HISTORY
TUCKER, Dr K.A., Bureau of Industry Economics, Department of Industry and Commerce, Canberra, ACT, 2600.

HISTORY
MARTIN, Dr G.W., Lecturer, School of Modern History, University College, Cork, Republic of Ireland.

PHILOSOPHY
CURLEY, Dr E.M., Professor of Philosophy, Northwestern University, Evanston, Illinois, USA 60201.
RENNIE, Mr M.K., c/o Mr R.G. Rennie, 4 Carmen Street, Bankstown, NSW, 2200.
STOCKER, Dr M., Senior Lecturer, Department of Philosophy, La Trobe University, Bundoora, Victoria, 3083.

POLITICAL SCIENCE
SMITH, Dr R.F.I., 47 Main Street, Eastwood, South Australia, 5063.
HAWKER, Dr G.N., 38 Urambi Village, Crozier Circuit, Kambah, ACT, 2902.

SOCIOLOGY
HOPKINS, Dr A., Criminologist, Australian Institute of Criminology, 10 Colbee Court, Phillip, ACT, 2606.
SMART, Dr D., Lecturer, School of Education, Murdoch University, Murdoch, Western Australia, 6153.

EDUCATION RESEARCH
BALDOCK, Dr M.D., Lecturer in Educational Psychology, Graylands Teachers College, Mimosa Avenue, Graylands, Western Australia, 6010.