### List of Staff

**Professor and Head**
Vacant full year

**Professor**
- O.H.K. Spate, M.A., Ph.D. (Cantab)
- H.C. Brookfield, B.A., Ph.D. (London)
- R. Ho, M.A. (London)
- G.J.R. Linge, B.Sc.Econ. (London), Ph.D. (N.Z.)

**Professorial Fellow in Geography and Acting Head**
- P.J. Rimmer, M.A. (Manc.), Ph.D. (Canterbury). (Research Fellow until 1/4/68)

**Senior Fellow**
- D.W. Harvey, M.A., Ph.D. (Cantab) (1/7/68 - 15/9/68)
- T.R. Weir, M.A. (Syracuse), Ph.D. (Wisconsin) (from 15/9/68)

**Fellow**
- Doreen Hart, B.A. (Birmingham)
- Louise Crossley, B.Sc.Agr. (Syd.) (until 26/4/68)
- Barbara L. Walsh, B.Sc. (New England) (until 30/6/68)
- Elizabeth Tyler (from 19/4/68)
- Meredith Easton, B.A. (Melb.) (from 26/9/68)

**Visiting Fellow**
- Barbara Banks (temporary, part-time)

**Honorary Visiting Fellow**
- H.E. Gunther, M.I.A.C.

**Research Assistants**
- M. Pancino
- J. Heyward
- K.D. Mitchell

**Departmental Assistant**
- Barbara Banks (temporary, part-time)

**Cartographer-in-charge**
- R.P. Craft (from 13/5/68)

**Cartographic draftsmen**
- Susan King (until 8/3/68)
- Jeanette Pendergast (from 26/2/68)

**Laboratory Technician III**
- Jennifer Nunn (4/7/68 - 20/12/68)
Introduction

The new Department of Human Geography, formed on July 13 1968 by division of the former Department of Geography, took over the work in cultural and economic geography of the old Department, and this report describes all the work in these fields carried out during 1968.

Up to now the work of the department has been about equally divided between Australia and tropical regions to the north, principally Melanesia and parts of southeast Asia. Within Australia the department has worked mainly in the fields of industrial, transportation and retailing geography, and a new development in this area has been work on spatial perception in studies on the location and use of retail facilities in metropolitan areas. This work has brought the Department into interdisciplinary contact with psychologists.

In tropical areas outside Australia most work has been in the fields of cultural ecology and economic change, generally adopting the strategy of research in depth within a small type-area that has characterised most of our work in this field in recent years. There has, however, been research of wider ambit, including a regional study of traditional trading in central New Guinea, and a study of wide scope on the geography of the whole Melanesian area.

General activities

The principal event of the year was the decision of Council to divide the old Department of Geography. Dr H.C. Brookfield, who was Acting Head of the old department from January 17, taking over from Mr J.N. Jennings, became Acting Head of the new department, and continued in this role throughout the year. Dr P.J. Rimmer was appointed to the vacant Fellowship, and an appointment was made to a Research Fellowship (Dr W.C. Clarke), but he will not arrive until mid-1969.

A Chair of Human Geography was advertised in August, and in December Dr H.C. Brookfield was elected to fill the vacancy. However, Dr Brookfield has accepted a position in the United States, and the Chair will be re-advertised in 1969.

Pressure on accommodation continued to be severe, and led to the division of a room and enclosure of part of corridor space. This situation is expected to continue until the extensions to the Coombs Building are completed.

The outstanding academic event of the year was a four-week course on Statistical and Mathematical Approaches in Geography offered by Dr David Harvey of Bristol University...
during his tenure of a Visiting Fellowship in the Department. This stimulating course was well attended by members of this department, the Department of Biogeography and Geomorphology, and the New Guinea Research Unit, and by invited members of C.S.I.R.O. and the Department of Geography at Monash University.

Seminar programmes were sustained through the First and Third terms, and several seminars were also held in association with Dr Harvey's course in the July-September period. These seminars did much to integrate the Department in its new identity, and provided the means of seeking common methodological and theoretical ground among the diversity of empirical research conducted.

Staff movements and activities

Professor Spate is now Director of the Research School of Pacific Studies. His activities, other than publications, are not included in this report.

Dr Brookfield has been acting head since January. His principal research activity has been the writing of his geography of Melanesia, which is now divided into two books. The first of these, tentatively entitled "Melanesia: ecology, scale and location in the geography of a developing region", is well advanced, and should be completed during 1969. Mrs Doreen Hart has been assisting him in writing this book. Work on the census of Vila has been completed, and maps and tabulations have been made available to the British and French authorities in the New Hebrides; an accompanying text (jointly with Dr Paula Brown Glick of New York State University) is in draft.

Mr Ho has continued work on agricultural development in Malaya, examining social, institutional and economic factors that affect development in selected areas and sectors. Differences in development between west and east Malaya are also being examined. He is also engaged in a study of Chinese in Kuala Lumpur. Two surveys have been carried out and a third is planned for 1969. The results should provide information on Chinese attitudes to ethnic differences, urban opportunities and government policy. The aim of the whole project is to highlight certain aspects of pluralism in Malaya.

Dr Linge was seconded to the University Administration from March until September to manage the Site Planning Project and write the Site Planner's brief. He is a member of the Buildings and Grounds Committee, the Research School of Biological Sciences Users' Committee and the Site Planner's Advisory Committee. Some of this work has continued since September, and has left him little time for his own research, but he has been able to make limited progress with the first volume of his "Industrial geography of Australia".
Dr Rimmer has completed research begun at Monash University on manufacturing and retailing in Melbourne, and two manuscripts entitled "Manufacturing in Melbourne" and "Changes in Melbourne's retailing structure" (with R.J. Johnston) have been completed for publication. Field work on a study of the Australian freight forwarding industry was completed with a visit to Western Australia, and a draft based on this research is almost complete. Preliminary work has been begun on a projected study of Thailand Railways to be undertaken in 1969. Also during the year he wrote a brief report for the New South Wales State Department of Decentralization and Development on "New South Wales ports".

Student activities

Theses were submitted by Messrs. Lasaga and Waddell, and Mr H.G. Quinlan (former Public Service Fellow) submitted a revision of his thesis.

Mr R.S. Andrew joined the department early in the year and has begun work on the locational behaviour of retailers in response to their spatial environment. An area in eastern Greater Melbourne has been selected, and preliminary work undertaken. Major field work will be done in 1969.

Miss Rosemary Barnard returned from Malaya in February and is now writing up her thesis. Her research, centred in a small rice-farming community in northern Malaya, has as its principal object the assessment of likely consequences of the coming advent of irrigation to permit double-cropping, but involves also an examination of the whole production and consumption system of the community.

Mr R.D. Bedford arrived in July, and has begun preliminary work on a study of internal migration in the New Hebrides Condominium. Work to date has included the testing of gravity models of observed migration, and running of new tabulations from the cards for the 1967 Condominium census held in the Department of Demography.

Mr I.M. Hughes spent almost the whole year in the field in New Guinea, returning in December. His research on indigenous trading systems in and around the central highlands has aroused considerable interdisciplinary interest.

Mr P. Krinks completed field work on internal migration into an area of Mindanao, Philippines, and has since been engaged in analysing his data and writing up his material.

Mr I.O. Lasaga completed his thesis on "Melanesian's Choice: a geographical study of Tasimboko participation in the cash economy, Guadalcanal, British Solomon Islands", and left in July to take up a post at the University of the South Pacific, Suva. His thesis was approved for the degree of Ph.D.
Mr J.K. Johnson completed field work for his study of transport and the 'beef-roads' system in the cattle industry of the Northern Territory, but unfortunately had to return to Britain for five months on compassionate leave following a family bereavement.

Mr E.W. Waddell completed his thesis on "The dynamics of a New Guinea highlands agricultural system", and left in December to take up a post at McGill University, Montreal, Canada.

Mr D.J. Walmsley arrived in October and has started work on some spatial aspects of consumer behaviour in selected areas of Sydney.

Conference and other outside activities

Dr Brookfield's term as President of the Institute of Australian Geographers expired in May, at the Monash meeting of the Institute. He delivered a Presidential Address at the meeting on "The money that grows on trees: the consequences of an innovation within a man-environment system". Papers were also delivered at the meeting by Mr Ho and Dr Rimmer, and Dr Rimmer also led an excursion. Mrs Hart, Mr Johnson, Mr Krinks and Mr Lasaqa also attended the meeting.

Dr Linge's very important commission to write a brief for the University Site Planner and manage the Site Planning Project for some months is mentioned above under Staff Activities. He has also continued work on urban boundaries and other matters in close relationship with the Bureau of Census and Statistics.

Mr Ho was invited to deliver a paper at the International Geographical Union meeting at New Delhi in December, but unfortunately was prevented from attending by a serious illness.

Several members of the department have participated in seminar series of other departments. Dr Brookfield read a paper to a symposium on the Demography of Papua-New Guinea, and also lectured to members of a training course organized by the Department of External Affairs. Dr Rimmer gave lectures in the S.G.S. Department of Geography. While a Visiting Fellow in the Department, Dr Harvey also lectured to the New South Wales Geographical Society, and at Monash University.

Professor T.R. Weir (Honorary Visiting Fellow), who is based in the Department while supported by a grant from the Canada Council, has commenced research on the cattle industry of part of northeastern Australia. He attended the Symposium on Land Evaluation held by the CSIRO Division of Land Research in August.
Visitors

Apart from its two long-term visitors (Dr Harvey and Professor Weir), the Department had an unusually large number of short-term visitors during the year. Six of these gave seminars in the Department: Dr P. Perry (University of Canterbury, New Zealand); Dr Joel Bonnemaison (Office de la Recherche Scientifique et Technique Outre-mer, Nouméa); Dr C. Kissling (University of Canterbury, New Zealand); Professor D. Hooson (University of California, Berkeley); Professor R.H.T. Smith (University of Wisconsin, Madison); Dr Marion Ward (New Guinea Research Unit, Port Moresby). The visit of Dr S. Otok (Warsaw) continued into the present year until February.

Other short-term visitors included Dr M. Chisholm (Bristol); Mr W.L. Conroy (Agriculture, T.P.N.G.); Professor R.H. Greenwood (Brisbane); M. H. Lavondès (O.R.S.T.O.M., Papeete); Professor G. Lawton (Adelaide); Mr D. Parkes (Newcastle); Professor D.S. Simonett (Kansas); Professor U. Schweinfurth (Heidelberg); Professor P. Scott (Tasmania); Dr R.J. Solomon (Tasmania); Mrs Janet D. Thomsen (Inter-American Institute for Agricultural Sciences, Costa Rica); Mr W. Tomasetti (U.P.N.G.); Professor R.G. Ward (U.P.N.G.); Dr E. Woolmington (New England).

Acknowledgments

Professor A.T.A. Learmonth has shared in the supervision of Departmental scholars, and he, together with Mr J.H.A. Chappell, Mr P. Laut and Dr H.J. Webber of the S.G.S. Department of Geography have contributed to the Department's seminar series to our great benefit. The Department has also had valuable co-operation from the Joint Schools Programming Section, and from Mr K. Barnes of the CSIRO Computer Centre.

In the research of the department, valuable aid has been given both by public bodies and by private companies, particularly those concerned with the Australian freight-forwarding industry, and with trade and industry in the Melanesian territories: while these must remain anonymous, their help is most gratefully acknowledged.
List of Publications

BROOKFIELD, H.C.


'The money that grows on trees: the consequences of an innovation within a man-environment system'. Australian Geographical Studies, VI, 97-119, 1968.


BROOKFIELD, H.C. and BROWN, Paul


BROOKFIELD, H.C. and WHITE, J.P.


HO, R.


JOHNSTON, R.J. and RIMMER, P.J.


LINGE, G.J.R.


'Australian economy' and 'Australian transport and communications'. In Encyclopaedia Britannica, 1968.
LINGE, G.J.R. and FRAZER, R.H.


RIMMER, P.J.


**'The Boot and Shoe Industry in Melbourne', Australian Geographer, X, 370-81, 1968

**'The Transportation Method of Linear Programming with a New Zealand Example', New Zealand Geographer, XXIV.


SPATE, O.H.K.


WADDELL, E.W. and KRINKS, P.A.


¥ Not a member of this University
Ø Based on work done while a member of the Dept. of Anthropology
** Based on work done prior to joining this University
Ø Based on work done while members of the New Guinea Research Unit