



# MONASH REPORTER

An unofficial bulletin prepared for the information of members of staff of Monash University under the direction of the following Editorial Committee: Dr. G.C. Bolton, Dr. D. Davison, Dr. D.A. Lowther, Mr. J.A. Phillips, and Dr. A.G. Serle.

No. 9 NOVEMBER, 1965

## HONOURS AND DISTINCTIONS

Professor K.H. Hunt (Applied Mechanics) and Associate Professor J.D.C. Crisp (Applied Mechanics) have been appointed Chairman and Deputy Chairman respectively of a newly formed national Technical Committee of Applied Mechanics of the Institution of Engineers, Australia.

Professor O.E. Potter (Chemical Engineering) and Mr. J.B. Agnew (Chemical Engineering) have been elected Chairman and Honorary Secretary/Treasurer respectively of the Institution of Chemical Engineers (Victorian Group) for the year 1965-66.

## THIRD CHAIR OF ECONOMICS

Dr. Maureen Brunt has been appointed to the third Chair of Economics. She is at present lecturer in Economics at Harvard University.

Dr. Brunt will be the first woman appointed to a full Professorship of Economics in Australia and is only the third woman appointed to a Chair - the other two are Professor Judith Robinson, Professor of French in the University of New South Wales; and Professor Mary Lockett, Professor of Pharmacology in the University of Western Australia.

Dr. Brunt is a graduate of the University of Melbourne and Harvard University and has held teaching appointments in those universities and the University of Adelaide.

Her field of interest is in the economics of industry with special reference to the problems of restrictive trade practices. Publications include 'The Structure of the Australian Economy' with P.H. Karmel (Cheshire).

Dr. Brunt is expected to take up her appointment at the beginning of 1967.

## STAFF ARRIVALS

Professor G.R. Manton - has taken up his appointment as Dean of the Faculty of Arts.

STAFF ARRIVALS (cont.)

Mr. G. Dworkin - Visiting Senior Lecturer in Law, graduated LL.B. from the University of Nottingham in 1954. After practising for two years as a solicitor he became an assistant lecturer and later lecturer in law at the London School of Economics. He is now Reader in law at the London School of Economics. Mr. Dworkin is married with one child.

Mr. B.F. Brennan - Senior Lecturer in Civil Engineering - graduated Bachelor of Surveying from the University of Queensland in 1951. He was admitted to Membership of the Institution of Surveyors (Australia) and became Fellow of the Institution of Surveyors (Federation of Malaya) in 1962. Mr. Brennan was full-time lecturer in surveying in the Faculty of Engineering at the University of Queensland from 1951 to 1953. He was then part-time lecturer at the University of Malaya in the Department of Geography from 1954 to 1958. Before taking up his position at Monash he was conducting private practice as a licensed surveyor and appraiser in Federation of Malaya, Singapore and Borneo Territories with offices at Johore Bahru, Singapore and Segamat. Mr. Brennan is married with four children.

Dr. W.A.W. Walters - Senior Lecturer in Obstetrics and Gynaecology - graduated M.B., B.S. from the University of Adelaide in 1956 and gained his Ph.D. from the University of London in 1964. He became a M.R.C.O.G. in 1960. After holding resident medical officer appointments in Adelaide hospitals, Dr. Walters went to the United Kingdom where from 1959 to 1963 he held various appointments at the Hammersmith Hospital. While there he was awarded a Medical Research Council Fellowship for research into cardiac output in pregnancy using a new dye-solution technique. Before taking up his position at Monash, Dr. Walters was a lecturer in the Department of Obstetrics and Gynaecology at the University of Aberdeen. Dr. Walters is single.

Dr. J.McD. Armstrong - Lecturer in Biochemistry - graduated B.Sc. from the University of Sydney in 1954, M.Sc. from the University of New South Wales in 1957, and Ph.D. from the University of Adelaide in 1960. Before taking up his position at Monash, Dr. Armstrong was working with Professor J.T. Edsall at Harvard University on a United States Public Health Service Postdoctoral International Fellowship. His present research interests are in the fields of the chemical modification of proteins and the effect of these modifications on the physical, chemical and biological properties of the modified protein, and the interactions of proteins with small molecules. Dr. Armstrong is married with two children.

MONASH TEA TOWELS

Tea towels are now on sale only at the Union Post Office, ground floor, Union building. Colours available (if you're lucky!) are: tan, olive, brick, green, black, blue. Price is 8/- unhemmed or 4 for 30/-; 10/- hemmed and a special offer of one free towel with every £5 order.

#### UNION VACATION

During the vacation the Union building will be open from 8.30 a.m. to 6.30 p.m. Monday to Friday.

Catering hours until the 3rd December are as follows:

Grill Room: 11.30 a.m. to 6.30 p.m.  
Meal hours - 12 noon to 2 p.m.  
4.45 p.m. to 6 p.m.

Coffee Lounge: 8.35 a.m. to 5.30 p.m.

Faculty Club: Hours as usual

Catering hours from 6th December until further notice are as follows:

Grill Room: 8.35 a.m. to 6.30 p.m.  
Meal hours - 12 noon to 2 p.m.  
4.45 p.m. to 6 p.m.

Coffee Lounge: Closed

Faculty Club: Hours as usual

On December 13th and 14th lunch will be served in the main dining room, first floor, Union.

#### CREDIT SOCIETY

At the request of the Staff Association of Monash University I have been asked to convene a committee to investigate the possibility of forming a Staff Credit Society.

A Credit Society is formed under the Co-operative Act supervised by the Director of Co-operatives. Credit Societies are operating in many establishments including University of New South Wales, C.S.I.R.O., S.E.C. etc. They operate the same way as a bank. Its members deposit moneys (which may be withdrawn at any time) on which they are paid interest. Members may obtain loans for many purposes - for example, purchase of goods for cash thus saving on high H.P. interest rates, medical expenses, school fees, or actually for any purpose which the Directors may approve. The interest charged for these loans is used to pay interest on deposits, and any profits are refunded to the borrowers after provision for statutory reserve and other expenses.

Would any persons willing to assist on this committee please contact Ray Horan, ext. 2622. It is not necessary to have had previous experience with a Credit Society but it would be helpful. I would particularly like at least one person with experience in finance (Accounting).

This is just a summary of the operations of a Credit Society, more details will be available after the formation of the investigating committee.

R.F. Horan.  
Department of Physics.

#### HOUSE TO SHARE

Any staff members or research students interested in sharing a four-bedroom, fully furnished house in North Caulfield, contact Ron Brown, Department of Physics, ext. 2620; or at home, 52-2743.

## EMPLOYMENT IN BRITAIN

The following letter has been received from the office of the British High Commission in Canberra. Mr. J.D. Butchart, Academic Registrar, will act on request but if members of staff prefer to arrange the necessary formalities themselves they may do so by communicating with the Canberra office of the High Commission or the British Government Office, Colonial Mutual Life Building, 330 Collins Street, Melbourne.

Dear Sir,

You will be aware that the British Government found it necessary in 1962 to place certain restrictions on the numbers of Commonwealth citizens seeking settled employment in Britain. The Commonwealth Immigrants Act was therefore passed which required those seeking settled employment to obtain a Ministry of Labour voucher before leaving their own country.

Since 1962 certain modifications have been made and the present position is that Ministry of Labour vouchers are now issued to those who have jobs waiting for them, as well as to those seeking employment provided they have certain qualifications. We consider that the present position may not be fully known to those it affects, including those taking up research fellowships or academic appointments.

We are anxious to avoid inconvenience being caused to Australians going to the United Kingdom, through failure to comply with the necessary formalities in advance, and I therefore write to offer the services of this Office and of our Offices in Brisbane, Sydney, Melbourne, Adelaide and Perth in giving guidance when members of the staff of the University plan to take up Fellowships or appointments in Britain. In particular, we would suggest that you get in touch with us as soon as it seems likely that one of your staff may be considering employment in the United Kingdom.

Yours faithfully,

(Signed) P. Gill

## STAFF DRAMA GROUP

On Monday 6th December, in place of the usual monthly play-reading, the Staff Drama Group will hold its first Annual General Meeting, to be followed by an end-of-term party. The A.G.M., at which elections for the 1966 committee will be held, will be in room 803, Humanities building, and will begin at 8 p.m. Nomination forms, which under the group's constitution must be returned not less than seven days before the date of the meeting, are available from the Secretary, Betty Moore, ext. 2140. All members of staff will be welcome at the end-of-term party, as well as the meeting which is to precede it. Those attending, however, are requested to bring a glass, and the wherewithal to fill it. During the evening there will be a number of dramatic entertainments.

The Council of Adult Education Summer School of Drama, which is to be held for the first time at Monash in January 1966, will be attended by a number of members of the Staff Drama Group. Those interested in joining these members of the group at the School may obtain enrolment forms from the Secretary. The School will run from 5th to 18th January, excluding Sundays.

Recommendations of the Australian Research Grants Committee:

Investigator	Title of Project	Amount
Day R.H. and Webster W.R.	The physiological basis of attentional mechanism	9,740
Laufer R.	Critical editions of C17 and C18 texts	3,000
Wilson M.G.A.	The black coal industry - 1954-65	690
Snape R.H.	An investigation of the Sydney greasy wool futures market	1,000
Gruen F.H.G.	Multi-sectoral analysis of supply and demand	2,300
Shaw A.G.L.	Governors' policies in Australia, 1800-1855	1,476
Sinclair W.A.	The economic growth of Australia 1900-1930	1,660
Roff W.R.	Islam in Malaya	700
Glass Y.	Victorian aborigines health project	3,635
Feith H.	Ideology in Soekarno's Indonesia	1,150
Rankin H.D.	The early cynics	400
Street R.	Spin density waves in metals at low temperatures	11,760
Pilbrow J.R.	Magnetic resonance studies of minerals	1,820
Derbyshire E.	Glaciation and periglaciation	6,470
Brown R.D.	Short lived species - spectroscopy	14,510
West B.O.	Chloro and fluoro substituted compounds	6,500
Dickson R.S.	Organometallic chemistry	500
Gatehouse B.M.K.C.	Crystal chemistry	4,040
Rozvany G.I.N.	Minimum volume synthesis of prestressed plates and other floor systems	4,000
Lampard D.G.	Information coding in the nervous system	2,700
Barden R.G.	Surface effects in boiling liquid heat transfer	3,500

Recommendations of the Australian Research Grants Committee (cont.)

Investigator	Title of Project	Amount £
Brown R.H.	Plastic deformation and residual stress formation in machining	1,300
Dorward D.F.	Breeding biology and behaviour of the Cape Barren Goose <i>Cereopsis novaehollandiae</i>	955
Canny M.J.	Physiological and structural studies of phloem	5,550
McDonald I.R.	Adrenal function in monotremes and marsupials	4,000
Lee A.K.	Survival of frogs in arid regions	1,240
Burgher H.G. and Catt K.J.	Secretion of human pituitary	10,520
Lowther D.A.	Structural aspects of connective tissues	10,760
Linnane A.W.	Biogenesis of mitochondria	17,880
Bornstein J.	Hormonal control of bone	2,800
Marmion B.P.	<i>Mycoplasma pneumoniae</i>	2,500
Marmion B.P.	Survey of respiratory illness and leukaemia	1,745
Nairn R.C.	Immunological studies	3,200

Research Grants from the National Heart Foundation

Investigator	Title of Project	Amount £
Holman Mollie	Studies on the innervation of blood vessels with special reference to veins	2,782.10.-
Holman Mollie	To study the transmission of excitation from conducting to contractile fibres in mammalian heart.	745.
Bentley G.A.	To study the physiology and pharmacology of sympathetic nerves and heart muscle	1,300
Gibbs C.L.	To study heat production in cardiac and skeletal muscle (Dr. Gibbs will take up his appointment at Monash next year)	3,250

Research Grants from the National Heart Foundation (cont.)

Investigator	Title of Project	£ Amount
Lowther D.A.	To study the macromolecular structure of heart valves	1,600
McLean K.H.	To study the aetiology of post-cardiotomy mononucleosis	2,350

GIFTS

A further grant of £1,785/12/- to Professor B.P. Marmion, Department of Microbiology, from the World Health Organization for the continuation of the research of mycoplasma.

£200 to the Department of Chemistry from the C.S.I.R.O. to be used for special purchases for inorganic chemistry research.

£1,445/-/- to Dr. D.F. Dorward, Department of Zoology and Comparative Physiology, from the Ian Potter Foundation, for studies on the biology of the Cape Barren Goose; to be followed by four annual grants of £360.

£25,000 from the Wellcome Trust and £250 from Cyanamid D.H.A. Pty. Ltd. to the Medical School, Alfred Hospital, to build an Animal House extension to facilitate research with animals.

£5,400 to Dr. D. Lowther, Department of Biochemistry, from the Australian Cattle and Beef Research Committee for research into the structure and bio-synthesis of connective tissue.

£4,000 over two years to Dr. G. Ettershank, Department of Zoology and Comparative Physiology, from the Ian Potter Foundation for research into the mechanisms of microclimate stability in desert ants.

A map of the Heidelberg district was presented to the Department of Geography by Professor E.S. Hills, Department of Geology and Mineralogy, University of Melbourne. It is the first area to be mapped on a standard ordnance pattern in Victoria and was produced under the supervision of Sir John Monash.

UNIVERSITY OF MELBOURNE SENIOR RESEARCH FELLOWSHIP

The University of Melbourne is offering vacancies for Research Fellows. These Fellowships are valued between £A2,400 and £A3,150, for a period of one, two or three years; and the Senior Research Fellowships are valued between £3,250 and £A3,800 for a period of one year, renewable for a second.

Applications should be lodged with the Office of the Dean of Graduate Studies, University of Melbourne, Parkville, N.2.

## EDUCATION FORUM TRANSCRIPT

A transcript of the recent teach-in on education at Monash on September 27th is now available. Copies are printed on off-set and are 10/- each. Copies may be obtained from the S.R.C. office.

## FUNDS FOR GREAT HALL APPEAL

The Clerical Staff Association has raised £350 in aid of the Great Hall Appeal by arranging a performance of the Student Prince by the Lyric Light Opera Company on Thursday, 11th November. The President of the Association, Mr. Cyril Stokes, Finance Department, would like to thank the Social Committee - Mrs. B. Langham (Law), Mrs. N. Blizzard (Administration), Mrs. M. Sprigg (Music), and Miss M. Dalton (Administration) - for their grand effort in helping to raise this amount.

Mr. Stokes would also like to thank members of staff for their enthusiastic support in helping to make the evening such a success.

## DEPARTMENTAL NEWS OF GENERAL INTEREST

### ANTHROPOLOGY AND SOCIOLOGY

Dr. H.D. Evers will continue his field study on the social organization of Buddhist monastic orders in Ceylon and Thailand until February next year. Dr. Evers has previously done research in Ceylon and Thailand in 1958-59, 1961, 1963 and 1964-65. Some of the results have recently been published in a book on "Cultural Change in Ceylon" in Baden-Baden/Germany.

### CHEMICAL ENGINEERING

Mr. F. Lawson has been re-elected to the R.A.C.I. Chemical Engineering Group Committee for 1966.

### CIVIL ENGINEERING

A recent visitor to the Department was Dr. R. Weck, Director of the British Welding Research Association.

### EDUCATION

Visitors to the Faculty last month were Dr. D.V. Connor, University of New South Wales, Mrs. D. Thompson, University of Toronto, and Miss H. Cranley, President, V.T.U.

Representatives from the Australian Group for the Scientific Study of Mental Deficiency visited Monash last month, while university lecturers involved with History of Education met here for their final conference session.

Professor R. Selby Smith spoke to the Tasmanian Institute of Educational Research on "Plans for the Education of Teachers at Monash University".

Dr. M. Balson presented a paper on "Classroom Simulation" to the Victorian Institute of Research and has recently addressed the Bendigo Teachers' Regional Group and the Peninsula Grammar Association on "Programmed Learning".



DEPARTMENTAL NEWS (cont.)

ENGLISH

Recent staff seminar papers were given by: Professor David Rankin, 'Medea'; Mr. Peter Naish, " eats and 'The Life of Sensations'; Miss Brenda Niall, 'Edith Wharton and the Jamesian Tradition of American Literature'.

Dr. Harold Love's review of Harbage 'Annals of English Drama' appeared in 'Aumla' on 23rd May 1965.

GEOGRAPHY

Mr. M.G.A. Wilson, Senior Lecturer in the Department and Warden of Farrer Hall has been awarded the first Ph.D. for a thesis presented in the Department of Geography, University of Melbourne. The subject of his thesis was 'Coalfields of Eastern Australia'.

Peter J. Rimmer, Lecturer in the Department has been awarded a Ph.D. in the University of Canterbury, Christchurch, New Zealand, for a thesis on New Zealand sea ports.

The Department is now located on the 7th floor east, of the Menzies Building.

MATHEMATICS

Seminars in the Department have recently been addressed by Professor D.G. Lampard, Department of Electrical Engineering, and by Mr. J.E. McGeachie, Department of Philosophy.

Professor E.J. Hannan, Department of Statistics, School of General Studies, A.N.U., gave a lecture on 'The Concept of a Filter,' and Professor B.V. Gnedenko, Department of Probability, University of Moscow, spoke about mathematical education in Russia. Professor Gnedenko said that some members of his department, well known mathematicians in their own fields, had spent considerable time recently in revising high school syllabuses and in teaching in high schools. He spoke strongly in favour of extending the exchange scheme, under which he is at present visiting A.N.U. and other Australian universities, so that more members of staff, both senior and junior, could participate. Professor Gnedenko was accompanied by Dr. D. Vere-Jones of A.N.U. who acted as translator.

The Department has also been visited by Dr. F. Smithies, Fellow of St. John's College, Cambridge, a functional analyst who is at present a visiting Fellow at A.N.U. for seven months.

Some members of the Department are assisting in the preparation of text-books to be used for the new high school syllabuses in mathematics. This work is being done under the auspices of the Victorian School Mathematics Research Foundation, set up in 1965. The aim of the Foundation is to promote research concerned with the content of school syllabuses and to assist school teachers of mathematics.

MECHANICAL ENGINEERING

The Department was visited by Mr. G.W.K. Ford, Chief, Engineering Research Division, Australian Atomic Energy Commission.

Professor R.G. Barden recently visited Broken Hill where he had been invited to address the Broken Hill Group of the Institution of Engineers, Australia.

#### DEPARTMENTAL NEWS (cont.)

The talk covered aspects of the development of the School of Engineering at Monash, followed by a technical paper on the Principles and current Practice in the field of newly developed methods of Energy Conversion. Active discussion followed both these topics.

Professor Barden and his wife were most appreciative of the interesting programme arranged on their behalf by the Broken Hill Group Committee.

#### PHYSICS

Dr. Joseph Hatton of the Clarendon Laboratory, Oxford, is spending a couple of terms in the Department. Dr. Hatton, who is an expert in high pressure physics has been giving a series of post-graduate lectures on thermodynamics.

The Department, in another of its many efforts to bridge the two cultures (they recently had a non-physicist at their table for lunch) has co-operated with the A.B.C. in producing a new University of the Air Series entitled "Einstein's Theory of Relativity." The six-programme series is being shown on Channel 2 on Thursdays at 10.10 p.m.

Professor R. Street recently gave a series of post-graduate lectures on solid-state physics in the Department of Physics at the University of Queensland.

A recent visitor to the Department was Dr. F. Seitz, doyen of solid-state physicists and president of the U.S. Academy of Sciences.

Dr. H. Morawitz of the I.B.M. Research Laboratories, San Jose has joined the Department for a year on a Department of Supply Post-Doctoral Fellowship. Dr. Morawitz will be continuing his theoretical studies in non-linear optics.

Mr. Trevor Hicks' Ph.D. thesis entitled "Antiferromagnetism in some manganese-palladium alloys" has been received favourably by his examiners. Mr. Hicks is leaving for the U.K. this month to take up a U.K. Atomic Energy Authority Fellowship at Harwell.

#### NOISE AND VIBRATION STUDIES

A six weeks course from 14th February to 25th March 1966 on Noise and Vibration Studies will be held in the Faculty of Engineering.

It is the first of a series of intensive courses for professional staff and has been made possible by the backing of Australian Paper Manufacturers, Ltd.

The object is to provide a series of intensive courses for those in industry and private practice with particular emphasis on topics where new knowledge may be applied to industrial technology.

Close consultation with those actively engaged in industry should produce courses which are of great value to practising technologists.

Further information about the course may be obtained from the Department of Mechanical Engineering, (ext. 2470).

This is the final edition of the Reporter for 1965. The first edition for 1966 will be distributed in February.

THE GREAT HALL APPEAL

Donations to the Great Hall Appeal are now in excess of £217,000 and it is hoped that the sum of approximately £133,000 will be subscribed before Christmas, 1965. Realisation of this amount could enable a start to be made on the building in 1967.

The Appeal has been supported by donations of up to £35,000 from commerce, industry, trusts and foundations, philanthropists, members of the University Council, staff, students, graduates, parents and friends.

The Appeal Committee is hopeful that members of staff who can look forward to participation in the University's future development, will support this project.

DONATIONS TO DATE

<u>COMMITTEE</u>	<u>AMOUNT</u>
Special Donations	£ 121,460
Commerce & Industry	35,439
Trusts & Foundations	31,560
Monash Staff	4,117 (does not include amounts from functions undertaken by staff)
Graduates	80
Students	31.10.0 (does not include amounts from functions undertaken by students)
Parents	24,546

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tear off here

MONASH GREAT HALL APPEAL

NAME..... (BLOCK LETTERS)  
FACULTY OR DEPARTMENT.....

It is my intention to contribute to the MONASH GREAT HALL APPEAL.

I understand that this notice of intention is not binding and may be altered to suit changing circumstances.

DETAILS OF GIFT

YEARLY £..... For ..... years being a  
TOTAL of £.....

Cheque donations should be made out to "Monash University" and addressed to the Honorary Treasurer, Monash Great Hall Appeal, P.O.Box 92, CLAYTON. Victoria.

- \* MY FIRST DONATION OF £..... is enclosed
- \* MY FIRST INSTALMENT WILL BE FORWARDED ON.....
- \* PLEASE SEND ME A REMINDER EACH YEAR IN THE MONTH OF.....  
196.....

Signed.....  
Mailing address.....  
.....  
Date.....

(\* Strike out whichever is not applicable)