

JOURNAL OF THE NEW ZEALAND INSTITUTE OF CHEMISTRY

Vol. 28

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1964

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Vol. 28, No. 6

DECEMBER, 1964

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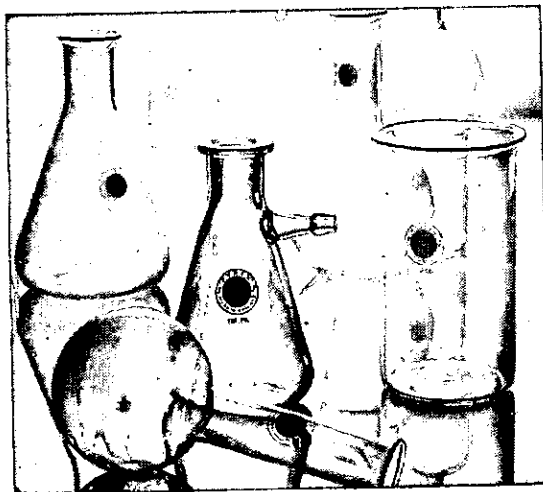
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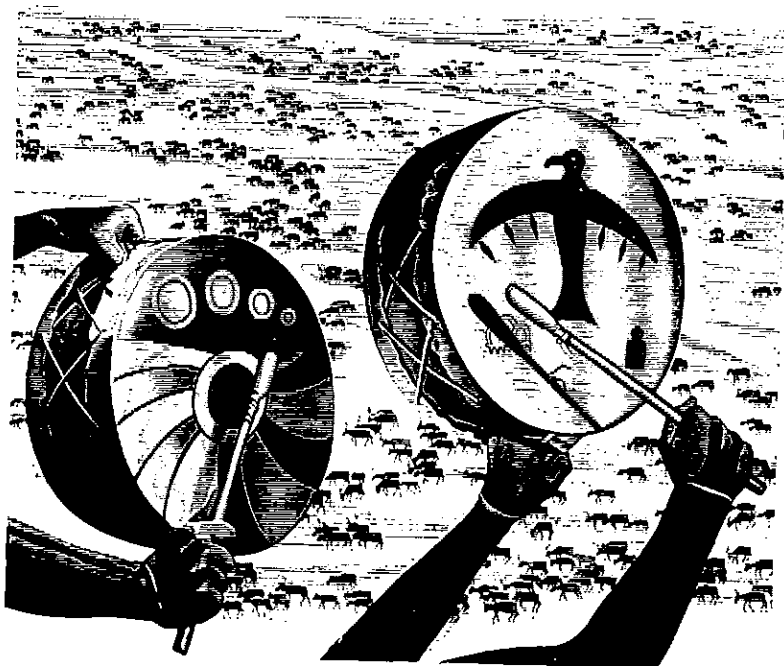
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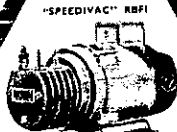
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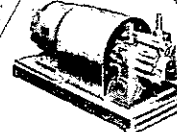
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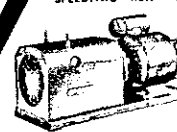
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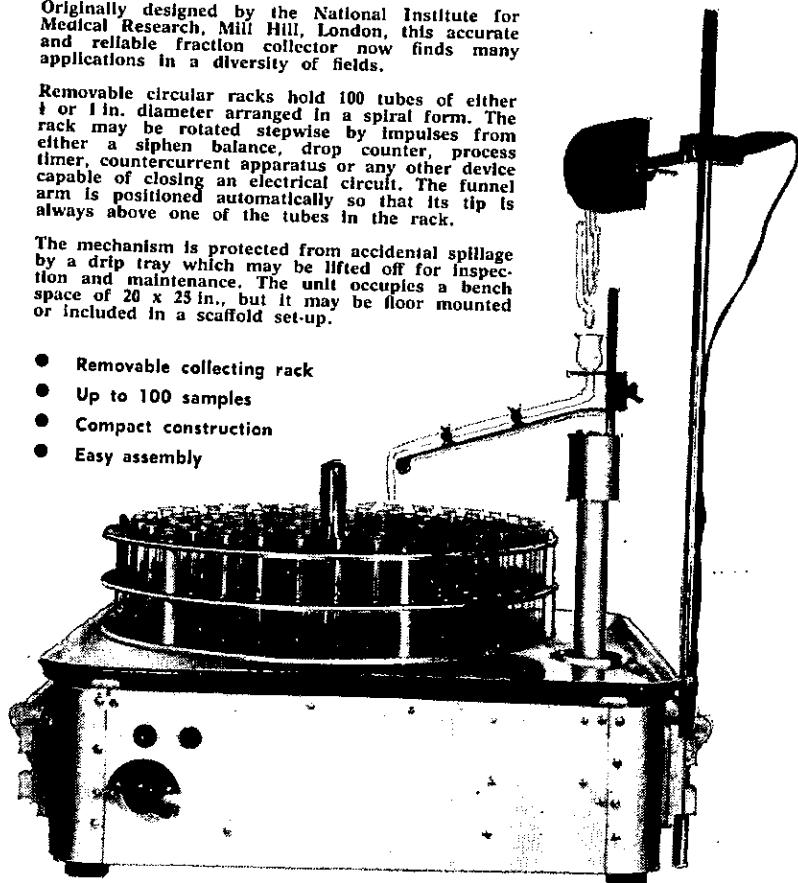
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JOURNAL OF THE NEW ZEALAND INSTITUTE OF CHEMISTRY

Vol. 28, No. 6

DECEMBER, 1964

PRESIDENT 1964-5



Professor S. R. Siemon was born and educated in Queensland, where he graduated B. Applied Science in 1938, B.Sc. in 1940 and M. Applied Science in 1941. He acquired his industrial experience with the Queensland Meat Industry Board from 1938 to 1944. During part of this time, and afterwards, he taught subjects for the Diploma in Industrial Chemistry and the Diploma in Sugar Technology at the Brisbane Technical College. From

1944 to 1947, he was Lecturer in Applied Chemistry at Canterbury University College, Senior Lecturer from 1947 to 1951, then Lecturer in Charge of the Department of Chemical Engineering from 1951 to 1956. He was appointed Professor of Chemical Engineering in 1957.

Professor Siemon first joined the New Zealand Institute of Chemistry in 1944. For a time he was Chairman of the Canterbury Branch. He became a Fellow of the Institute in 1960. He is also a Fellow of the N.Z. Institution of Engineers; an Associate of the Royal Australian Chemical Institute; Associate Member of the American Institute of Chemical Engineers; a Member of the American Society for Engineering Education; a Member of the Institution of Chemical Engineers (London) (he is a member of the Education and Nomination Committees of this body); and a member of the Royal Society of N.Z. Professor Siemon was Nuffield Travelling Fellow in 1951-2.

Apart from his consulting work in air pollution and nuisance problems, in which capacity he has been expert witness and solicitors' adviser, he has been active on committees concerned with these problems. He is a member of the Air Pollution Committee, Board of Health, and Chairman of the Air Pollution Committee of the Christchurch

Regional Planning Authority. He is a member of the National Research Advisory Council. He has been a member of the Council of Scientific and Industrial Research and of the Management Committee of the Fertiliser Manufacturers' Research Association.

In the field of education, he has been active as a member of the Entrance Board of the University of New Zealand, and, at various times, on the boards of several secondary schools.

VICE-PRESIDENTS

The first Vice-President and second Vice-President for 1964-5 are, respectively, Dr A. T. Johns, Director, Plant Chemistry Division, D.S.I.R., Palmerston North; and Mr M. S. Carrie, The Canterbury Frozen Meat Co. Ltd., Christchurch.

BRANCH CHAIRMEN, 1964-5



AUCKLAND

This year's Auckland Branch Chairman, Dr G. A. Nicholls, was born in Auckland and graduated M.Sc. with honours from Auckland University College in 1947. He was Duffus Lubecki Scholar in 1947, was a University of New Zealand Research Fund Fellow in 1948 and graduated Ph.D. in 1949 after working on the chemistry of the *Coprosma* genus under Professor L. H. Briggs. During 1949, he lectured at Canterbury University College prior to holding a U.S. Public Health Service Fellowship at University of Rochester, Rochester, N.Y., from where he went to Mill Hill, London, in 1952, to carry out chemical research at the National Institute for

Medical Research. In 1954, he returned to a position in New Zealand with N.Z. Forest Products Ltd. where he is now Chief Research Chemist and during the last ten years his efforts have been mainly devoted to the application of science in the utilization of *Pinus radiata*. These activities have been supported by study visits both to the C.S.I.R.O. Division of Forest Products, in Melbourne, and to the University of California Forest Products Laboratory, at Richmond.

Dr Nicholls, who is a Fellow of the Institute, has previously served on the Auckland Branch Committee and was Branch Editor for 1962-4. His interests include photography, a wife, three girls in a row, a garden and capital growth.

WAIKATO

The Chairman for 1964-5 is again Dr E. B. Davies. Details of his career were published in the February, 1964, issue of the *Journal*.

MANAWATU

Mr D. W. King was dux of Napier Boys' High School in 1949. A university national scholarship took him to Canterbury University College where he graduated B.E., B.Sc. in 1955. After graduation, he joined the Dairy Research Institute and did research and developmental work on manufacturing processes for casein and new dairy products, and on the mechanization of cheese manufacture. At present, he is Chief Research Engineer at the Dairy Research Institute.

He has been a committee member of the Dairy Research Association and is now its President. He is a council member of the N.Z. Society of Dairy Technology. He was admitted as Associate of the N.Z. Institute of Chemistry in 1961.



WELLINGTON

The Chairman of the Wellington Branch for 1964-5 is Dr P. P. Williams, Principal Scientific Officer at Chemistry Division, D.S.I.R., Gracefield.

Dr Williams joined Dominion Laboratory as a bursar in 1951, and graduated M.Sc. with first-class honours in chemistry from Auckland University in 1955. He was then attached to the physical chemistry section of Dominion Laboratory in Wellington, where he worked on infra-red spectrophotometry and X-ray diffraction. In 1959, he won a National Research Fellowship which took him to the University of Cambridge for two years. At the Cavendish Laboratory, Dr Williams worked on the crystallography of feldspars, and took his Ph.D. in 1961. He then returned to Dominion Laboratory as leader of the physical chemistry section.

Dr Williams was elected an Associate of the Institute in 1956 and was secretary of the Wellington Branch from 1957 to 1959.

CANTERBURY

Dr A. Fischer, Branch Chairman for this year, is Senior Lecturer in Chemistry at the University of Canterbury. He graduated M.Sc. with first-class honours in 1955 and in the same year joined the staff of the Chemistry Department. Dr Fischer gained his Ph.D. in 1960 and then spent a year working with Professor George S. Hammond at the California Institute of Technology. His research interests are in the mechanism of organic reactions. He was elected an Associate of the Institute in 1955 and has served on the Canterbury Branch Committee and as Conference Secretary in 1957.



OTAGO



The Chairman of the Otago Branch for 1964-5 is Mr A. J. D. Robb, Works Manager for the Fletcher Industries Limited, in Dunedin.

In 1944, Mr Robb commenced employment with the Fletcher Industries in Dunedin as Works Chemist for their linseed oil factory. While employed by Fletcher Industries, he continued his studies at Otago University, graduating M.Sc. in Chemistry in 1949. He was Chief Chemist at the linseed oil factory until 1952 when he was transferred to Christchurch to carry out research and development work on linseed oil, asbestos cement, and other related products. In 1957, he was transferred back to Dunedin as Works Manager for the linseed and duroid factories.

Mr Robb has been particularly interested in the improvement of linseed seed varieties grown in New Zealand and the agricultural problems associated with the development of other oil seeds. He was elected an Associate of the Institute in 1951.

COUNCIL OFFICERS AND COMMITTEES
1964-5

President: Professor S. R. Siemon

First Vice-President: Dr A. T. Johns

Second Vice-President: Mr M. S. Carrie

General Secretary: Dr W. E. Harvey

Branch Delegates: Dr G. A. Nicholls (Auckland); Dr E. B. Davies (Waikato); Mr D. W. King (Manawatu); Dr P. P. Williams (Wellington); Mr T. A. Mitchell (Christchurch); and Dr J. C. Dacre (Otago).

Registrar: Mr D. J. Hogan

Editor: Miss J. M. Mattingley

Hon. Librarian: Mr S. G. Brooker

Standing Committee of Council: Dr W. E. Harvey, Dr A. T. Johns, and Dr P. P. Williams

Membership Committee: Dr W. A. McGillivray, Professor R. D. Batt, and Dr J. C. Andrews

Examinations Committee: Professor A. L. Odell (Chairman); Mr M. A. Long (Secretary); Mr S. G. Brooker, Mr O. H. Keys, and Mr G. S. Lambert

Professional Status Committee: Dr B. Miller (Convener)

List of Members Committee: Mr J. S. Pollard

Representative on Science Committee of Technicians Certification Authority: Professor A. L. Odell

Representatives on Standards Institute: Mr G. A. Lawrence (N.Z.S.I. Council); Mr C. L. H. Stonyer (Chief representative for S.I. Affairs, also Insecticides, Refrigeration, etc.); Dr R. Gardner (Electroplating, etc.); Mr J. M. Tingey (Metal containers, etc.); and Dr L. F. Storey (Textiles)

Representative on Royal Society Council: Miss J. M. Mattingley

Unesco Representative: Mr J. A. D. Nash

Employment Officer: Mr E. S. Borthwick

Conference Committee: Chairman — Dr J. Rogers; Secretary — Dr A. G. Williamson (c/o Chemistry Dept., University of Otago, Box 56, Dunedin)

BRANCH COMMITTEES, 1964-5**Auckland**

Chairman: Dr G. A. Nicholls

Secretary: Mr G. R. White (*Chemistry Dept., University of Auckland*)

Treasurer: Mr R. W. Olliff

Committee: Messrs P. J. Gallaher and H. R. Gapper, Dr D. F. Nelson and Miss S. V. Sheat

Delegate to Council: Dr G. A. Nicholls

Branch Editor: Dr D. F. Nelson

Waikato

Chairman: Dr E. B. Davies

Secretary: Mr M. R. Coup (*Ruakura Agricultural Research Centre, Hamilton*)

Committee: Dr R. Hodges, Dr R. H. Locker, Mr K. J. McNaught and Dr D. E. Wright

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Branch Editor: Mr F. D. Dorofaeff

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Chairman: Mr D. W. King

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Delegate to Council: Mr D. W. King

Wellington

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Secretary: Mr R. A. Kennerley (*Chemistry Division, D.S.I.R., Petone*)

Treasurer: Mr C. W. Angus

Committee: Mr G. R. Burns, Mrs G. R. Burns, Prof. J. F. Duncan, Mr F. P. McAnelly and Miss J. Mattingley

Delegate to Council: Dr P. P. Williams

Branch Editor: Mr G. R. Burns

Canterbury

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Secretary: Mr D. J. Hogan (*D.S.I.R., Box 2112, Christchurch*)

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Otago

Chairman: Mr A. J. D. Robb

Secretary: Dr R. M. Carr (*Chemistry Dept., University of Otago, Box 56, Dunedin*)

Treasurer: Dr E. R. Entwistle

Committee: Dr J. C. Dacre, Mr D. W. Lockhart, Dr M. H. Panckhurst and Mr C. W. Thomson

Delegate to Council: Dr J. C. Dacre

Branch Editor: Dr M. H. Panckhurst

List of Members, 1964

ABBREVIATIONS USED

- A.Aust.I.M.M.—Associate, Australasian Institute of Mining and Metallurgy.
A.C.G.I.—Associate, City and Guilds Institute, London.
A.C.I.T.—Associate, Gordon Institute of Technology, Geelong, Victoria Australia.
Agr. L.—Licentiate of Agriculture.
A.I.B.—Associate, Institute of Brewing.
A.I.M.—Associate, Institution of Metallurgists.
A.I.M.L.T.—Associate, Institute Medical Laboratory Technology.
A.I.M.M.—Associate, Institution of Mining and Metallurgy.
A.Inst.P.—Associate of the Institute of Physics.
A.M.I.Chem.E.—Associate Member, Institution of Chemical Engineers.
A.M.I.Mech.E.—Associate Member, Institution of Mechanical Engineers.
A.M.Inst.F.—Associate Member, Institute of Fuel.
A.M.Inst.Gas E.—Associate Member, Institution of Gas Engineers.
A.M.N.Z.I.E.—Associate Member, New Zealand Institution of Engineers.
A.M.T.C.—Associate, Melbourne Technical College.
A.N.Z.E.I.—Associate, New Zealand Electronics Institute.
A.N.Z.I.M.—Associate, New Zealand Institute of Management.
A.N.Z.I.R.E.—Associate, New Zealand Institute of Refrigeration Engineers.
A.N.Z.I.W.—Associate, New Zealand Institute of Welding.
A.N.Z.L.A.—Associate, New Zealand Library Association.
A.O.S.M.—Associate, Otago School of Mines.
A.R.A.C.I.—Associate, Royal Australian Chemical Institute.
A.R.A.N.Z.—Associate, Registered Accountant, New Zealand.
A.R.C.S.—Associate, Royal College of Science.
A.R.I.C.—Associate, Royal Institute of Chemistry.
A.S.T.C.—Associate, Sydney Technical College.
A.T.I.—Associate, Textile Institute.
B.A.—Bachelor of Arts.
B.Agr.Sc.—Bachelor of Agricultural Science.
B.Agr.Sc.(Dairy Tech.)—Bachelor of Agricultural Science, Dairy Technology Option.
B.Chem.E.—Bachelor of Chemical Engineering.
B.Com.—Bachelor of Commerce.
B.E.—Bachelor of Engineering.
B.E.(Chem.)—Bachelor of Chemical Engineering.
B.H.Sc.—Bachelor of Home Science.
B.Med.Sc.—Bachelor of Medical Science.
B.Sc. Bachelor of Science.
Cand. and Doct. Exam.—Candidaats and Doctoraal Examination (Amsterdam).
C.B.E.—Commander of the Order of the British Empire.
Ch.B.—Bachelor of Surgery.
C.O.P.—Certificate of Proficiency.
C.O.P.H.L.P.—Certificate of Proficiency, Hospital Laboratory Practice.

Dip.Bact.—Diploma in Bacteriology.
 Dip.Chem.Eng.—Diploma in Chemical Engineering.
 D.D.S.—Doctor of Dental Surgery.
 Dip.Ed.—Diploma in Education.
 Dip.Ind.Chem.—Diploma in Industrial Chemistry (University of Canterbury).
 Dip.Eng.Chem.—Diploma in Chemical Engineering.
 Dip.N.Z.Lib.Sch.—Diploma, New Zealand Library School.
 D.Crim.—Doctor of Criminology, University of California.
 D.I.C.—Diploma, Imperial College of Science and Technology.
 D.Phil.—Doctor of Philosophy.
 D.Sc.—Doctor of Science.

E.D.—Efficiency Decoration.

Fil.dr.—Doctor of Philosophy.
 F.I.M.—Fellow, Institution of Metallurgists.
 F.I.P.H.E.—Fellow, Institute of Public Health Engineers.
 F.Inst.F.—Fellow, Institute of Fuel.
 F.Inst.S.P.—Fellow, Institute of Sewage Purification.
 F.N.Z.I.M.—Fellow, New Zealand Institute of Management.
 F.R.A.S.—Fellow, Royal Astronomical Society.
 F.R.I.C.—Fellow, Royal Institute of Chemistry.
 F.R.S.A.—Fellow, Royal Society of Arts.
 F.R.S.N.Z.—Fellow, Royal Society of New Zealand.

Ing.—Ingenieur, i.e. a University Practical Diploma at the Masterate level

K.B.E.—Knight Commander of the Order of the British Empire.

LL.M.—Master of Laws.

M.A.—Master of Arts.

M.A.I.M.E.—Member, American Institute of Mining and Metallurgical Engineers.

M.App.Sc.—Master of Applied Science.

M.Aust.I.M.M.—Member, Australian Institute of Mining and Metallurgy.

M.B.—Bachelor of Medicine.

M.D.—Doctor of Medicine.

M.H.Sc.—Master of Home Science.

M.I.Chem.E.—Member, Institution of Chemical Engineers.

M.I.Min.E.—Member, Institution of Mining Engineers.

M.Chem.Eng.—Master of Chemical Engineering.

M.Inst.F.—Member, Institute of Fuel.

M.P.S.—Member, Pharmaceutical Society.

M.S.A.Chem.I.—Member, South African Chemical Institute.

M.Sc.—Master of Science.

Mus.B.—Bachelor of Music.

O.B.E.—Officer of the Order of the British Empire.

Ph.D.—Doctor of Philosophy.

A

- ADAMS, Arthur Francis Reginald, M.Sc., Lincoln College, Christchurch. (*Senior Lecturer in Soil Science*). A.'39. F.'64.
- ADAMS, Dennis Beaumont, B.Sc., A.N.Z.I.M., BALM Paints (N.Z.) Ltd., Box 1009, Auckland. (*Works Manager*). A.'51.
- ADAMS, Dudley Erne, M.Sc., Auckland Grammar School, P.O. Box 9046, Newmarket, Auckland. (*Senior Chemistry Master*). A.'35.
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- AGGETT, Frederick John, M.Sc., Ph.D., Chemistry Dept., University of Auckland. P.O. Box 2175, Auckland (*Lecturer*). A.'63.
- AIYAR, Krishna Ramchandran, B.Sc. (Nagpur), B.Agr.Sc. (Dairy Tech.), 16 Dharampet Extension, N. Ambazeri Road, Nagpur, India. A.'63.
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- ALLISON, Russell Morris, M.Sc., Ph.D.(Wis.), Crop Research Division D.S.I.R., Private Bag, Christchurch. (*Principal Scientific Officer*). A.'45; F.'62.
- ANDERSON, Bryan Frederick, M.Sc., Chemistry Dept., Auckland University, P.O. Box 2175, Auckland. (*Temporary Junior Lecturer*).
- ANDERSON, Colin McDonald, B.Sc., C/o Australian National Biological Standards Laboratory, Canberra A.C.T., Australia. (*Official Analyst for Commonwealth Department of Health*). A.'55.
- ANDERSON, Miss Roberta May, B.Sc., B.H.Sc., Dip.Ed., 20 Hamilton Avenue, Christchurch. (*Retired*). A.47.
- ANDERSON, William Edwin, B.Sc., 74 Grange St., Opawa, Christchurch. (*Chemist, G. L. Bowron & Co. Ltd.*). A.'52.
- ANDREW, David Henry, B.Sc., Kiwi Fertilizer Co. Ltd., P.O. Box 105, Morrinsville. (*Chief Chemist*). A.'62.
- ANDREWS, Ernest David, M.Sc., Wallaceville Animal Research Station, Private Bag, Wellington. (*Senior Principal Scientific Officer*). A.'46.

- ANDREWS, John Clark, M.Sc., Ph.D., F.R.I.C., A.M.I.Chem.E., 403A Devon Street West, New Plymouth. (*Works Director, Ivon Watkins Ltd., Director Watkins Gardinol Chemicals Ltd., United Chemicals Ltd.*). A.'31; F.'36.
- ANCUS, Colin William, B.Sc., Unilever N.Z. Ltd., Petone (*Chief Chemist*). A.'64.
- ANNETT, Harold Edward, O.B.E., B.Sc., Agric.(Lond.), D.Sc.(Lond.), F.R.I.C., 18 Windsor Rd., Beerescourt, Hamilton. (*Retired. Formerly Indian Agricultural Service*). A.'31; F.'43.
- ANSLEY, Desmond Reginald, B.Sc., P.O. Box 1171, Hamilton. A.'59.
- APPLEYARD Robert Ian, B.Sc., Union Carbide New Zealand Pty. Ltd. Vivian Street, Wellington. (*Manager*). A.'54.
- ARCUS, Alexander Colvin, M.Sc., Ph.D., Medical Unit, The Princess Margaret Hospital, Christchurch. (*Research Biochemist*). A.'62.
- ARMSTRONG, Alan George, B.Sc., Ngata Memorial College, Ruatoria, via Gisborne. (*Teacher*).
- ASKEW, Henry Oscar, O.B.E., M.A., Ph.D.(Lond.), D.I.C., F.R.I.C., F.R.S.N.Z., New Zealand Breweries Ltd., Box 211, Wellington. (*Research Chemist*). A.'36; F.'37.
- AUSTIN, John Maurice, M.Sc., Ph.D., Chemistry Department, University of Canterbury, Private Bag, Christchurch. (*Senior Lecturer*). A.'53.
- AYLING, Herbert Sydney, M.Sc., Industrial Chemicals (N.Z.) Ltd., Panmure, Auckland. (*Chemist*). A.'46.

B

- BAILEY, Maurice Ross, B.Sc., 133 Salford Street, Invercargill. (*Science Teacher, Janes Hargest High School*). A.'58.
- BAILEY, Raymond Wellesley, M.Sc., Ph.D.(Birm.), Plant Chemistry Division D.S.I.R., Private Bag, Palmerston North (*Senior Principal Scientific Officer*). A.'46; F.'62.
- BAIRD, Walter Norman, B.Sc., Dip. Ind.Chem., Shirley Boys' High School, Christchurch. (*Asst. Master*). A.'63.
- BAKER, Lewis Charles, M.Sc., W. Gregg & Co. Ltd., Box 956, Dunedin. (*Works Manager*). A.'46.
- BARCLAY, John Bernard, B.Sc., 1 Holland Avenue, Glen Eden, Auckland. (*Production Chemist, A. C. Hatrick (N.Z.) Ltd.*). A.'53.
- BARKER, Geoffrey Herbert, M.Sc., Reid (N.Z.) Rubber Mills Ltd., Private Bag, Auckland. (*Chemist*). A.'48.
- BARNES, Fred, M.Sc., The Fletcher Industries Ltd., Plywood Division, Mandeville Street, Riccarton, Christchurch. (*Development Officer*). A.'55; F.'62.
- BARNES, James Francis, B.Sc., Alliance Freezing Co., P.O. Box 845, Invercargill. (*Production Supervisor*). A.'60.

- BARNICOAT, Cuthbert Richmond, D.Sc., Ph.D. (Minnesota); F.R.I.C., F.R.S.N.Z., Cawthron Institute, P.O. Box 175, Nelson. (*Director*). A.'31; F.'43.
- BARR, William Lyall, B.A., M.Sc., F.R.I.C., N.Z. Forest Products Ltd., Private Bag, Auckland, C.I. (*Research Chemist*). A.'31; F.'49.
- BARRACK, Bruce Craburn, B.Sc., C/o Nicholas Products Ltd., P.O. Box 12,061 Penrose, Auckland. (*Chief Chemist*). A.'57.
- BARTON, Allan Francis Murray, M.Sc., Chemistry Dept., Auckland University, P.O. Box 2175, Auckland. (*Ph.D. Student*). A.'63.
- BARTRUM, Miss Margaret Patricia, M.Sc., Chemistry Division, D.S.I.R., P.O. Box 2224, Auckland, (*Scientific Officer*). A.'41.
- BATHURST, Noel Onslow, M.Sc., Plant Chemistry Division, D.S.I.R., Private Bag, Palmerston North. (*Chemist*). A.'45.
- BATT, Richard Dean, M.Sc., Ph.D., M.A.(Oxon), D.Phil.(Oxon), F.R.I.C., Biochemistry Department, Massey University of Manawatu, Palmerston North. (*Professor of Biochemistry*). A.'55; F.'62.
- BAYLISS, Stuart Patrick, B.Sc., Ocean Beach Freezing Co. Ltd., Invercargill. (*Chemist*). A.'60.
- BEACHEN, John Frederick, M.Sc., Samson Paints Ltd., Patiki Street, Avondale, Auckland. (*Head Chemist*). A.'56.
- BEATH, George Bentley, M.A., Dip.Ed., A.I.Ed.(Lond.), Dunedin Teachers' College, Dunedin. (*Principal*). A.'33.
- BECK, John Richard, B.Sc., N.Z. Breweries Ltd., Box 23, Auckland. (*Assistant Technical Manager*). A.'50.
- BELL, Muriel Emma, C.B.E., M.D., F.R.A.C.P., F.R.S.N.Z., 22 Ravenswood Road, Dunedin, S.W.I. F.'41.
- BELL, Raymond Douglas, B.Sc.(N.S.W.), Pinchin, Johnson & Co. Ltd., P.O. Box 7504, Kilbirnie, Wellington. (*Technical Manager*). A.'64.
- BETTY, Stewart Morris, B.Sc., Dip.Ind.Chem., Empire Rubber Mills Ltd., c/o Woolston P.O., Christchurch. (*Manager*). A.'52.
- BIELSCHOWSKY, Marianne, Ph.D.(Freiburg), Medical School, University of Otago, Dunedin. (*Chemist to Cancer Research Department*). A.'51.
- BIRRELL, Kenneth Stewart, M.Sc., A.R.I.C., Soil Bureau, D.S.I.R., Private Bag, Lower Hutt (*Senior Soil Physicist*) A.'41.
- BLACKIE, William John, M.Sc., F.R.I.C., United Nations Mission, D.I.T. Building, Dacca 2, East Pakistan (*F.A.O. Leader*). A.'33; F.'35.
- BLACKMAN, John Cary, M.Sc., Ph.D., Department of Pharmacology, Medical School, P.O. Box 913, Dunedin. (*Senior Lecturer*). A.'56.
- BLANC, Albert Damer Gibson, B.Sc., M.B., Ch.B., P.O. Box 91, Wanaka. (*Medical Practitioner*). A.'39.
- BLIGHT, Margaret Mary, M.Sc., c/- D. R. Blight 1 Fortunatus Street, Wellington. (*Temporarily Overseas*) A.'62.

- BLOOM, Harry, D.Sc.(Melb.), Ph.D.(Lond.), D.I.C., F.R.A.C.I., Chemistry Department, University of Tasmania, Box 252C, Hobart, Australia. (*Professor*). A.'48; F.'60.
- BLUCK, Ross Steele, M.Sc., Mobil Oil New Zealand Ltd. P.O. Box 73, Petone. (*Chemist, Seaview Terminus*). A.'63.
- BODY, Denis Roger, M.Sc., Fats Research Division, D.S.I.R., P.O. Box 8021, Wellington. (*Scientific Officer, Temporarily Overseas*). A.'63.
- BOLLARD, Edward George, B.Sc., Ph.D.(Cantab.), F.R.S.N.Z., Fruit Research Station, D.S.I.R., Auckland. (*Plant Physiologist*). A.'53.
- BORREN, Albert Marinus, Chem. Doctorandus (Utrecht), Philips Electrical Industries of N.Z. Ltd., P.O. Box 5023, Naenae. (*Technical Director*). A.'63.
- BORTHWICK, Edwin Sloan, M.Sc., A.R.I.C., Shell Oil N.Z. Ltd., Box 2091, Wellington. (*Assistant Technical Adviser*). A.'36.
- BOSWELL, Colin Ralph, M.Sc., Biochemistry Dept., Massey University, Palmerston North. (*Junior Lecturer*). A.'64.
- BOUSTRIDGE, William, B.Sc., Winstone Ltd., Auckland. (*Market and Economic Analyst*). A.'61.
- BOWYER, Stephen Bernard, 280 Mill Road, Otaki (*Retired*). A.'31.
- BRASCH, Donald James, M.Sc., Ph.D.(Queen's), Chemistry Division, D.S.I.R., P.B. Petone. (*Senior Scientific Officer*). A.'59.
- BREACH, Barrie Hayes, B.Sc., Fletcher Industries Ltd., Auckland. (*Industrial Chemist*). A.'64.
- BREEN, John Newman, Stratford Dairy Co. Ltd., P.O. Box 97, Stratford. (*Chemist*). A.'61.
- BREWERTON, Hugh Victor, M.Sc., A.R.I.C., Chemistry Division, D.S.I.R., Private Bag, Petone. (*Principal Scientific Officer*). A.'63.
- BREWIS, Andrew Strachan, B.E. (Chem.), B.Sc., Challenge Phosphate Co., Otahuhu. (*Works Manager*). A.'64.
- BRIDGMAN, Michael John, B.Sc., A.N.Z.I.M., N.Z. Wallboards Ltd., Christchurch. (*Manager*). A.'60.
- BRIGGS, Lindsay Heathcote, D.Sc., D.Phil.(Oxon.), F.R.S.N.Z., F.A.N.Z.A.A.S., Chemistry Department, University of Auckland, P.O. Box 2175, Auckland. (*Professor of Chemistry*). A.'33; F.'36.
- BROAD, (Mrs.) Patricia Wyndham, M.Sc., Marsden College, Wellington. (*Chemistry Teacher*). A.'63.
- BROOKER, Edgar George, M.Sc., Ph.D., Ivon Watkins Ltd., New Plymouth. A.'48.
- BROOKER, Stanley George, M.Sc., Abels Ltd., Box 9012, Newmarket, Auckland. (*Chief Chemist*). A.'42; F.'48.
- BROOKS, Robert Richard, B.Sc.(Hons.)(Bristol), Ph.D.(Capetown), A.R.I.C., Biochemistry Department, Massey University of Manawatu, Palmerston North. (*Senior Lecturer*). A.'61.
- BROUGHTON, George Wilfred, B.Sc., McLeod Bros. Ltd., P.O. Box 908, Dunedin. (*Factory Manager*). A.'46.

- BROWN, Desmond Goble, M.Sc., Kempthorne Prosser & Co.'s, New Zealand Drug Company Ltd., P.O. Box 319, Dunedin. (*Chief Chemist, Pharmaceutical Laboratories*). A.'57.
- BROWN, Mrs. Kathleen Elizabeth, B.Sc., M.H.Sc., Hill Street South, Richmond, Nelson. (*Nelson Girls' College*) A.'49
- BROWN, Lindsay Russell, B.Sc., Dip.Ind.Chem., Kempthorne Prosser Ltd., Wanganui. (*Assistant Works Manager*). A.'63.
- BROWNE, Gavin Fair, M.Sc. Mobil Oil New Zealand Ltd., P.O. Box 391 Wellington. (*Sales Chemist*) A.'61.
- BROWNE, William Edward, B.Sc., Box 12,084, Auckland. (*Purchasing Officer, Lincoln Industries Ltd.*). A.'49.
- BROWNING, Allen Ransome, B.Sc., Fijian Ore Co. Ltd., P.O. Box 143, Lautoko, Fiji. (*Company Manager*). A.'51.
- BRUCE, James Arthur, "Montrose," Kimpton Road, Papatoetoe, Auckland, P.O. Box 31, Papatoetoe. (*Technical Consultant, Fertilisers and Farmers' Raw Materials etc.*). A.'32.
- BRUCE, Leonard Wainwright, B.Sc., Chemistry Division, D.S.I.R., P.B. Petone. (*Senior Scientific Officer*). A.'51.
- BRUNDELL, James Evans, M.Sc., A.R.I.C., Auckland Grammar School. (*Science Master*). A.'41.
- BURNETT, Kenneth Robert, B.Agr.Sc.(Dairy Tech.), Kaipara Dairy Co. Ltd., P.O. Box 20, Helensville. (*Chief Chemist and Assistant Manager*).
- BURNS, Gary Robert, M.Sc., Chemistry Department, Victoria University of Wellington, P.O. Box 196, Wellington. (*Lecturer*). A.'62.
- BURNS, Mrs. Janet Raby, M.Sc., 217 The Terrace, Wellington. A.'64.
- BURNS, Malcolm McRae, C.B.E., M.Sc., Ph.D.(Aberd.), F.R.S.N.Z., Lincoln College Christchurch. (*Principal*). A.'37; F.'43.
- BURTON, Hugh Stephen Nicholas Hay, B.Sc., A.N.Z.L.A., 120 Nicholson Road, Khandallah, Wellington. (*Head, Bibliographical Section, N.L.S.*). A.'44.
- BUTCHERS, John Barnard, M.Sc., c/o Technical Assistance Board, P.O. Box 274, Monrovia, Liberia. (*Professor of Chemistry, University of Monrovia*). A.'51.
- BUTLER, Graham Wesley, M.Sc., Fil.dr.(Lund.), Plant Chemistry Division D.S.I.R., Private Bag, Palmerston North (*Senior Principal Scientific Officer*). A.'54; F.'63.

C

- CAIN, Bruce Frank, M.Sc., Ph.D., D.Phil.(Oxon.), British Empire Cancer Research Laboratory, Cornwall Geriatric Hospital, Auckland. (*Senior Cancer Research Fellow*). A.'53; F.'63.

- CALDER, Alfred John, M.Sc., Central Institute of Technology, Petone. (*Senior Chemistry Tutor*). A.'64.
- CAMBIE, Richard Conrad, M.Sc., Ph.D., D.Phil.(Oxon), Chemistry Department, University of Auckland, P.O. Box 2175, Auckland. (*Associate Professor*). A.'57; F.'64.
- CAMPBELL, Alistair Shand, M.Sc., P.O. Box 52, Lincoln College, Christchurch. (*Lecturer in Chemistry*). A.'59.
- CAMPBELL, Arthur Derek, M.Sc., Ph.D., A.R.I.C., Chemistry Department, University of Otago, Dunedin. (*Reader and Microanalyst*). A.'49; F.'62.
- CAMPBELL, David Franklin, B.Sc., Rangiora High School, Rangiora, (*Head of Science Dept.*). A.'63.
- CANDY, Bruce James, M.Sc., Kelston High School, New Lynn, Auckland. (*Science Master*). A.'60.
- CARNEGIE, Patrick Robert, B.Sc.(Hons.)(St. Andrews), Ph.D.(Aberdeen), The Russell Grimwade School of Biochemistry, University of Melbourne, Parkville, N.2., Vic., Australia. (*Senior Lecturer in Agricultural Biochemistry*). A.'59.
- CARR, Malcolm David, M.Sc., Ph.D.(Lond.), Chemistry Department, Victoria University of Wellington, P.O. Box 196, Wellington. (*Lecturer*). A.'64.
- CARR, Robert Melville, M.Sc., Ph.D., D.I.C., Chemistry Department, University of Otago. (*Lecturer*). A.'58.
- CARRIE, Maxwell Stuart, M.Sc., F.R.I.C., A.M.I.Chem.E., The Canterbury Frozen Meat Co., Ltd., P.O. Box 2, Belfast, Christchurch. (*Chemist*). A.'36; F.'58.
- CARTER, Charles Lyons, M.Sc., A.R.I.C., 134 Queen Street, Dunedin. (*Reader in Chemistry University of Otago—Retired*). A.'31; F.'43; Hon.M.
- CARTER, David Michael, M.Sc., B.A.L.M. Paints (N.Z.) Ltd., Hutt Road, Lower Hutt. (*Development Chemist*). A.'57.
- CARTER, Denver Milton, B.Sc., Tokoroa High School, Tokoroa. (*Assistant Master*). A.'60.
- CARTER, Garrick Neville, B.Sc., Chemistry Department, Auckland University, P.O. Box 2175, Auckland. (*Radio-Chemistry Technician*). A.64.
- CAUGHLEY, Frank Gordon, B.A., M.Sc., N.Z. Leather and Shoe Research Association, Private Bag, Lower Hutt. (*Research Officer*). A.'32.
- CAWLEY, Robert William, M.Sc., Wheat Research Institute, P.O. Box 1489, Christchurch. (*Assistant Director*). A.'49; F.'64.
- CHAMBERLAIN, George, B.Sc., Chemistry Division, D.S.I.R., P.B. Petone. (*Chemist*). A.'44
- CHAPMAN, Lewis Peter James, M.Sc., A.R.A.N.Z., Dairy Research Institute, P.O. Box 1204, Palmerston North. (*Chemist*). A.'48.

- CHAPPELL, Peter Lyndsey, M.Sc., A.R.I.C., Glaxo Laboratories (N.Z.) Ltd., P.O. Box 624, Palmerston North. (*Pharmaceutical Production Manager*). A.'51.
- CHARLTON, Philip Lewis Raymond, B.Sc., Department of Agriculture, Suva, Fiji. (*Senior Chemist*). A.'39.
- CHEESEMAN, Trevor Percival, M.Sc., Ph.D.(Auck.), Chemistry Department, University of Auckland, P.O. Box 2175, Auckland. (*Overseas*). A.'62.
- CHILDS, William Edward, B.Sc., B.A.L.M. Paints Pty. Ltd., P.O. Box 60, Clayton, Victoria, Australia. (*Chemist*). A.'50.
- CHRISTENSEN, Max Theodore. M.Sc., Ph.D., Department of Chemistry, University of Canterbury, Private Bag, Christchurch. (*Senior Lecturer*). A.'50.
- CLARE, Norman Trevor, M.Sc., Ruakura Agricultural Research Centre, Private Bag, Hamilton. (*Chief Biochemist*). A.'35; F.'47.
- CLARK, Percival James Comfort, M.Sc., Chemistry Division, D.S.I.R., P.B. Petone. (*Deputy Director and Dominion Analyst*). A.'32; F.'61.
- CLARKE, John Graham, M.Sc., Dairy Research Institute, P.O. Box 1204, Palmerston North. (*Research Chemist*). A.'63.
- CLEVERLY, Barry, M.Sc., Ph.D., Chemistry Division, D.S.I.R., P.B. Petone. (*Senior Scientific Officer*). A.'52.
- CLIMO, John Matheson, B.Sc., Swift and Co. Ltd., P.O. Box 2301, Auckland. (*Sales Representative*). A.'48.
- COCKBURN, Bruce Lindsey, M.Sc., Rongotai College, Wellington. (*Head of Chemistry Department*). A.'58.
- COLEBROOK, John Garry, B.Sc., Abels Ltd., P.O. Box 9012, Auckland. (*Chemist*). A.'63.
- COLEBROOK, Lawrence David, M.Sc., Ph.D., Chemistry Department, University of Rochester, Roch. 27, New York, U.S.A. A.'59.
- COLLINS, Alfred Drew, M.Sc.(Manc.), Trimol Laboratories Ltd., 71 Melrose Road, Mt. Roskill, Auckland, S.E.3. (*Chief Chemist*), A.'36.
- CONE, Edgar, M.Sc.(Lond.), A.R.C.S., D.I.C., A.R.I.C., H. W. Lawrence and Son Ltd., Chemical Service Laboratory, P.O. Box 33, Johnsonville, Wellington. (*Chemist*). A.'39.
- COOKE, Miss Alison Peevor, B.Sc., Chemistry Division, D.S.I.R., Private Bag, Petone. (*Scientific Officer*). A.'48.
- COOP, Ian Edward, M.Sc., D.Phil.(Oxon.), Lincoln College, Christchurch. (*Professor of Animal Husbandry and Vice-Principal*). A.'46; F.'60.
- COOPER, David Edward, M.Sc., 7 Crescent Road, Epsom, Auckland. (*Chemist, A.F.F. Co.*). A.'56.
- CORBAN, George Annis, B.Sc., R. & W. Hellaby Ltd., Auckland. (*Chemist*) A.'60.

- CORBETT, Robert Edward, M.Sc., Ph.D.(Cantab.), Chemistry Department, University of Otago, Dunedin. (*Reader*). A.'53; F.'60.
- CORNES, John Julian Stephen, B.A., B.Sc., Waitomo Portland Cement Co., Box 274, Te Kuiti. (*Senior Chemist*). A.'40; F.'49.
- CORNISH, John Edwin, B.Sc., A.R.A.C.I., I.C.I.(N.Z.)Ltd., P.O. Box 1592, Wellington, (*Technical Manager*). A.'63.
- COSGROVE, Mark McElroy, M.Sc., Spotswood College, New Plymouth. (*Science Master*). A.'64.
- COTTON, Stephen Richard James, Laboratory, Auckland City Council, Town Hall, Auckland. (*Chief Analyst and Filtration Supervisor*). A.'53.
- COUP, Mostyn Robert, B.Sc., Ruakura Agricultural Research Centre, Private Bag, Hamilton. (*Biochemist*). A.'45.
- COUSINS, Frederick Barrie, M.Sc., Ph.D., University of Otago Dental School. (*Asst. Prof. of Biochemistry*). A.'64.
- CRAIG, John Thorburn, B.Sc., Ph.D.(Edin.), Chemistry Dept., Victoria University of Wellington, P.O. Box 196, Wellington. (*Lecturer*). A.'63.
- CRAIGHEAD, Pat Wylie, M.Sc., N.Z. Plywood (S.I.) Ltd., Mandeville Road, Riccarton. (*Manager, Particle Board Factory*). A.'59.
- CREAMER, Lawrence Kenneth, M.Sc., Ph.D. (Cantuar.) The Dairy Research Institute, Palmerston North. (*Chemist*) (*Temporarily Overseas*). A.'62.
- CROTTY, Francis Patrick, M.Sc., Southland Frozen Meat Co., P.O. Box 839, Invercargill. (*Chief Chemist*). A.'63.
- CROWLEY, Bernard John, B.Sc., Merck, Sharp and Dohme (N.Z.) Ltd., P.O. Box 362, Lower Hutt. (*Technical Director*). A.'60.
- CROZIER, Henry William, M.Sc., Marathon Rubber Footwear Ltd., Christchurch. (*Chief Chemist*). A.'31.
- CRUMP, (Miss) Fay Hilton, B.Sc., Chemistry Division, D.S.I.R., Private Bag, Petone (*Scientific Officer*). A.'63.
- CURTIS (Mrs) Yvonne Margaret, M.Sc., Wellington Girls' College (*Asst. Teacher*). A.'63.

D

- DACRE, Jack Craven, M.Sc., Ph.D.(Lond.), Pathology Research Unit, Medical School, University of Otago, Dunedin. (*Senior Research Officer, M.R.C.*). A.'45; F.'58.
- DARBY, Francis Joseph, B.Sc., Ph.D. (Lond.), Chemistry Dept., Victoria University of Wellington. (*Lecturer in Biochemistry*). A.'64.
- DASENT, Wilfred Effingham, M.Sc., Chemistry Department, Victoria University of Wellington, Box 196, Wellington. (*Senior Lecturer*). A.'51.
- DAVEY, Colin Lester, M.Sc., Ph.D.(Cantab.), Meat Research Institute, P.O. Box 617, Hamilton. (*Biochemist*). A.'62

- DAVIES, Miss Alma Margaret, M.Sc., New Plymouth Girls' High School, New Plymouth. (*Head of Science Department*). A.'64.
- DAVIES, Edwin Braithwaite, M.Sc., Ph.D.(Aberd.), A.R.I.C., Ruakura Agricultural Research Centre, Private Bag, Hamilton. (*Senior Principal Scientific Officer*). A.'31; F.'52.
- DAVIES (Mrs.), Marjorie June, B.H.Sc., c/o Karitane Products Society, Melrose, Wellington. (*Chemist*). A.'58.
- DAVIS, Brian Reeve, M.Sc., Ph.D., Chemistry Department, University of Auckland, P.O. Box 2175, Auckland. (*Lecturer*). A.'55.
- DAVIS, Graeme Frear, M.Sc., C.O.P. (Hospital Laboratory Practice), Medical Laboratory, 127 Grafton Road, Auckland. (*Biochemist*). A.'55.
- DAWES, Stuart Neil, B.Sc., Chemistry Division, D.S.I.R., P.B. Petone. (*Scientific Officer*). A.'54.
- DEARSLEY, William Leonard Melville, M.A.(Cantab.), Dominion Yeast Co. Ltd, Box 2106, Christchurch. (*Chief Chemist and Works Manager*). A.'31; F.'46.
- DEARSLEY, William Leif Oram, B.Sc., N.Z. Breweries Ltd., Auckland. (*Brewing Chemist*). A.'64.
- De BOER, Pieter Johannes, M.Chem.Eng.(Delft.), International Paints of N.Z. Ltd., 4 Seatoun Heights Road, Wellington, E.5. (*Senior Chemist*). A.'54.
- DEMCHENKO, Mrs. Zinaida, Ing. Chemist (Kharkov), N.Z. Pottery and Ceramics Research Assn., Private Bag, Lower Hutt. (*Scientific Officer*) A.'53.
- DEMCHENKO, Zosim, Ing. Chemist Applied Sc. (Kharkov), Griffin and Sons Ltd., P.O. Box 327, Lower Hutt. (*Chief Chemist*). A.'53.
- DEMPSEY, Basil John, Bitumix Ltd., Lunn Avenue, Auckland, E.2. (*Chief Chemist*). A.'63.
- DENMEAD, Colin Frank, B.Sc., Health Department, P.O. Box 5442, Auckland. (*Chemical Inspector*). A.'43.
- DENNIS, Rodney Arthur, B.Agr.Sc.(Dairy Tech.), Albertland Co-op Dairy Co., Private Bag, Wellsford. (*Manager*). A.'57.
- DENNISON, John Scott, M.A., B.Sc., Dip.Ed., Otago Boys' High School. (*Science Teacher*). A.'60.
- DEVEREUX, Ian, M.Sc., B.A.L.M. Paints N.Z. Ltd., Box 1009, Auckland. (*Technical Officer*). A.'64.
- DICK, David Andrew, M.Sc., 40 Gladstone Road, Dunedin, N.E.1. (*Chemist and Brewer, Wilson's Malt Extract Co., Willowbank, Dunedin*). A.'32.
- DINGLEY, George, MSc., Stevenson and Howell (N.Z.) Ltd. (*Manager*). A.'40.

- DIXON, Joseph Keith, M.Sc., Ph.D.(Lond.), D.I.C., F.R.I.C., F.R.S.N.Z., Soil Bureau, D.S.I.R., Private Bag, Lower Hutt. (*Director*). A.'36; F.'41.
- DOAK, Brian Wilfred, D.Sc., British Phosphate Commissioners, 515 Collins Street, Melbourne. (*Senior Research Officer*). F.'44.
- DOBSON, Alexander, B.Sc., A.R.A.N.Z., N.Z. Wallboards Ltd., 153A Balmoral Road, Auckland. (*Chief Chemist*). A.'49.
- DOLBY, Richard Malcolm, M.Sc., Ph.D.(Lond.), The Dairy Research Institute (N.Z.), P.O. Box 1204, Palmerston North. (*Chief Chemist*). A.'48; F.'63.
- DOLLIMORE, Miss Annette Florence, B.Sc., Shell Oil N.Z. Ltd., P.O. Box 2091, Wellington. (*Technical Assistant*). A.'64.
- DOROFAEFF, Francis Desmond, B.Sc., Ruakura Agricultural Research Centre, Private Bag, Hamilton. (*Senior Scientific Officer*). A.'47.
- DOWNES, Colin James, B.Sc. (Hons.), Chemistry Dept., Otago University. (*Ph.D. Student*). A.'64.
- DRYDEN, John Willoughby, B.Sc., M.I.Chem.E., The Lactose Company of N.Z. Ltd., Kaponga R.D., Taranaki (*Factory Manager*). A.'46.
- DUNCAN, James Francis, M.A., M.Sc., D.Phil., D.Sc., Chemistry Department, Victoria University of Wellington, P.O. Box 193, Wellington. (*Professor of Inorganic and Theoretical Chemistry*). F.'62.
- DUNCKLEY, Geoffrey Gordon, B.Sc., Nutrition Research Department, Medical School, P.O. Box 913, Dunedin. (*Research Officer*). A.'62.
- DUNCKLEY, James Vivian, B.Sc., Medical School, Pathology Department, University of Otago, Dunedin. (*Biochemist*). A.'51.
- DURHAM, Reginald Alexander, M.Sc., R. A. Durham Ltd., Box 9210, Newmarket, Auckland. (*Manufacturing and Consulting Chemist*). A.'48.

E

- EARL, William Brian, B.Sc., B.E.(Chem. Hons.), Chemical Engineering Department, University of Canterbury, Private Bag, Christchurch, (*Lecturer*). A.'62.
- EDSON, Norman Lowther, B.Med.Sc., M.B., Ch.B., Ph.D. (Cantab.), F.R.S.N.Z., Medical School, University of Otago, Dunedin, C.I. (*Professor of Biochemistry*). A.'37; F.'43.
- EDWARDS, Henry Hanbury, Morcom Green & Edwards Ltd., Avondale, Auckland. (*Director*). A.'32; F.'49.
- ELDER, William Ross, M.Sc., Linwood High School, Aldwins Road, Christchurch. (*Head of Department of Biology*). A.'44.
- ELLIOTT, Malcolm John, M.Sc., BALM Paints (N.Z.) Ltd., P.O. Box 1009, Auckland (*Head Chemist*). A.'63.
- ELLIS, Albert James, M.Sc., Ph.D., Chemistry Division, D.S.I.R., P.B. Petone. (*Senior Principal Scientific Officer*). A.'54; F.'62.

- ELLISON, Miss Dorothy Jean, M.Sc., A.R.A.C.I., Abbotsleigh School, Wharounga, Sydney, N.S.W. (*Senior Chemistry Mistress*). A.'32.
- ELPHICK, John Oliver, B.Sc., Chemistry Division, D.S.I.R., Private Bag, Petone. (*Fuel Chemist*). A.'43.
- EMERSON, George West, M.Sc., Biochemistry Department, Medical School, P.O. Box 913, Dunedin. (*Lecturer*). A.'64.
- ENGEL, Graham Bernard, M.Sc., M.P.S., Department of Pharmacy, Medical School, P.O. Box 913, Dunedin. (*Lecturer in Pharmaceutics*). A.'64.
- ENGLAND, Brian Daysh, M.Sc., Ph.D.(Lond.), Chemistry Department, Victoria University of Wellington, P.O. Box 196, Wellington. (*Senior Lecturer*). A.'60.
- ENTWISTLE, Mrs Evelyn Ruth, B.Sc.(Hons.), Ph.D.(St. Andrews), A.R.I.C., Chemistry Department, School of Home Science, University of Otago, P.O. Box 56, Dunedin. (*Lecturer in Textiles*). A.'62.
- ERSKINE, John Malcolm, B.Sc.(Hons.) (Liverpool), Dairy Research Institute, P.O. Box 1204, Palmerston North. (*Bacteriologist*). A.'62.
- ESCHER, Wallace Lee, B.Sc., Chemistry Division, D.S.I.R., Private Bag, Petone. (*Scientific Officer*). A.'63.
- EVANS, Albert Arthur, M.Sc., Department of Chemical Engineering, University of Canterbury, Private Bag, Christchurch. (*Lecturer*). A.'64.

F

- FASTIER, Frederick Noei, M.Sc., D.Sc., D.Phil.(Oxon), F.R.I.C., Medical School, University of Otago, Dunedin, C.I. (*Associate Professor in Pharmacology*). A.'44; F.'61.
- FERCUSSON, Jack Eric, M.Sc., Ph.D. (Lond.), Chemistry Department, University of Canterbury, Private Bag, Christchurch. (*Senior Lecturer*). A.'60.
- FIELDES, Morice, D.Sc., Soil Bureau, D.S.I.R., Private Bag, Lower Hutt. (*Senior Principal Scientific Officer*). A.'37.
- FIFE, Clifford Valmont, M.Sc., Ph.D., Soil Science Department, Massey University of Manawatu, Palmerston North. (*Senior Lecturer and Head of Department*). A.'33; F.'63.
- FISCHER, Alfred, M.Sc., Ph.D., Chemistry Department, University of Canterbury, Private Bag, Christchurch. (*Senior Lecturer*). A.'55.
- FITZGERALD, David Gerald, B.Sc., Imperial Chemical Industries (N.Z.) Ltd., P.O. Box 275, Lower Hutt. (*Production Supervisor*). A.'55.
- FITZGERALD, Paul, M.Sc., Burnside High School, Christchurch, 4. (*Asst. Master*). A.'63.

- FITZSIMONS, Desmond, B.Sc., Abels Ltd., P.O. Box 9012, Newmarket, Auckland. (*Works Manager*). A.'64.
- FORRESTER, Alan McCallum, B.Sc., N.Z. Refrigerating Co. Ltd., Islington, Christchurch. (*Assistant Chemist*). A.'53.
- FORSYTH, John Charles, N.Z. Refrigerating Co. Ltd., Islington, Christchurch. (*Chief Chemist*). A.'31.
- FOSTER, Peter Kinnear, M.Sc., Ph.D., D.I.C., Pottery and Ceramics Research Association, Private Bag, Lower Hutt. (*Director*). A.'59.
- FOURIE, Roy Michael, M.Sc.(Natal), Auckland Technical Institute, P.O. Box 5044, Auckland. (*Science Teacher*). A.'64.
- FRANCE, John Terence, M.Sc., Central Laboratory, Auckland Public Hospital. (*Biochemist*). (*Overseas*). A.'61.
- FRANCIS, Graeme Cecil, B.Sc., Mobil Oil (N.Z.) Ltd., P.O. Box 73, Petone. (*Manufacturing Supervisor*). A.'59.
- FRANKEL (nee Donovan), Christine Lesley, B.Sc., City Council Laboratory, P.O. Box 2199, Wellington. (*Chemist*). A.'59.
- FRASER, John Gareth, Plant Chemistry Division, D.S.I.R., Private Bag, Palmerston North. (*Technical Officer*). A.'58.
- FREITAG, Walter, M.Sc., B.P. (New Zealand) Ltd. Laboratory, P.O. Box 892, Wellington. (*Chemist*). A.'60.
- FREYBERG, Ernest, B.Sc., Dip.Chem.Eng.(Vienna), 9 Kebbll Grove, Lower Hutt. (*Technical Manager, Batavian Rubber Co. Ltd., Birdwood Street, Featherston*).
- FRIEBERG, Alan George, M.Sc., A.R.I.C., 42 Nottingham Street, Westmere, Auckland, W.2. (*Chief Chemist, Dairy Laboratory, Department of Agriculture*). A.'39.
- FRIEBERG, George Frederick, A.R.A.C.I., 81 West End Road, Westmere, Auckland, W.2. (*Retired*). A.'31, Hon.M.
- FURKERT, Roderick John, M.Sc., Soil Bureau, Private Bag, Lower Hutt. (*Scientific Officer*). A.'63.
- FUTTER, John Herbert, M.Sc., H. W. Lawrence & Son Ltd., P.O. Box 33, Johnsonville. (*Chemist*). A.'59.

G

- GALE, Muriel Bertha, A.R.A.C.I., Associate, Sydney Technical College, Reckitt & Colman Ltd., Rosebank Road, Auckland. (*Chemist*). A.'64.
- GALLAGHER, Ian Henderson Christopher, M.Sc., Biochemistry Department, Medical School, P.O. Box 913, Dunedin. (*Research Officer, Hydatid Research Unit*). A.'64.
- GALLAHER, Philip James, B.Sc., Fertiliser Manufacturers' Research Association, Otago Research Station, Otahuhu, Auckland. (*Chemist*). A.'48.

- GALLOWAY, Warren John, M.Sc., Ph.D.(Cantuar.). (*Overseas*). A.'62.
- GAMBLE, Thomas Palmer Jackson, B.Sc.(Hons.)(Belfast), Pinchin, Johnson & Co. Ltd., Miramar, Wellington. (*Research Chemist*). A.'59.
- GAPPER, Harry Richmond, M.Sc., Peach Products Ltd., Otahuhu, Auckland, S.E.7. (*Chief Chemist*). A.'49.
- GARDNER, Kennett Hurst, N.Z. Standards Institute, Department of Industries and Commerce, Wellington. (*Technical Officer, Chemical*). A.'62.
- GARDNER, Roy, D.Sc., M.I.Chem.E., F.R.I.C., Dr. R. Gardner and Partners Ltd., 41 Dowling Street, Dunedin. (*Consulting Industrial Chemist*). A.'31; F.'35; Hon. F.'63.
- GARLICK, Raymond Kevin, B.Sc., 12 Yeovil Place, Christchurch, 5. A.'52.
- CAWNE, Kenneth Maxwell, B.Sc., Trimol Laboratories Ltd., Auckland. (*Works Chemist*). A.'64.
- GAY, Selwyn Roy, Southland Co-op Phosphate Co., Box 849, Invercargill. (*General Manager*). A.'31.
- GEDDES, Mrs. June Moyra, M.Sc., 113 Donald Street, Karori, Wellington. A.'54.
- GEE, Roy, M.Sc., Glaxo Laboratories (N.Z.) Ltd., P.O. Box 624, Palmerston North. (*Assistant Development Manager*). A.'55.
- GERSON, Thomas, M.Sc., Fats Research Division, D.S.I.R., P.O. Box 8021, Wellington. (*Chemist*). A.'50.
- GIBBONS, Ronald Clifton, M.Sc., B.A.L.M. Paints (N.Z.) Ltd., Hutt Park Road, Lower Hutt. (*Technical Officer*). A.'59.
- GIBSON, Milton George Charles, M.Sc., Chemistry Division, D.S.I.R., P.O. Box 2224, Auckland, C.I. (*Scientific Officer*). A.'57.
- GILMORE, Owen Lawry, B.A., B.Sc., Post Primary Teachers' College, 60 Epsom Avenue, Auckland. (*Principal*). A.'53.
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- GLENDINNING, Tom Aldrich, M.Sc., F.R.I.C., 14 Alton Street, Nelson, (*Retired*) A.'31. Hon. F.'63.
- GLOVER, Richard Brian, B.Sc.(Hons.), Ph.D.(Bristol), Chemistry Division, D.S.I.R., c/o Ministry of Works, Wairakei. (*Scientific Officer*). A.'61.
- GOLDING, Raymond Marshall, M.Sc., Ph.D.(Cantab.), Chemistry Division, Private Bag, Petone. (*Principal Scientific Officer*). A.'59.
- COODEY, John Hill, M.Sc., Consolidated Chemicals Ltd., New Lynn, Auckland. (*Chief Chemist*). A.'53.
- GORDON, Lyndsey George McDonald, B.Sc., Takapuna Grammar School, Auckland (*Science Teacher*). A.'62.

- CORGENYI, George Zoltan, Marrickville Holdings Ltd., P.O. Box 4, Marrickville N.S.W., Australia. A.'61.
- GRAHAM, Joseph Ivon, M.A.(Cantab.), M.Sc.(Lond.), F.R.C.Sc.I., F.Inst.F., Hon.M.I.Min.E., F.R.I.C., "The Hill", Anakiwa, Picton, R.D., Marlborough. (*Retired*). F.49.
- GRANT, Peter Kemnitz, M.Sc., Ph.D.(Cantab.), Chemistry Department, University of Otago, P.O. Box 56, Dunedin. (*Lecturer*). A.'62
- GREENWOOD, Roger Michael, M.Sc., Plant Chemistry Division, D.S.I.R., Private Bag, Palmerston North (*Scientific Officer*). A.'45.
- GREGERSEN, Bert, B.Sc.(Dairy Tech.)(Copenhagen), M.S.A.(Toronto), Bacteriology Laboratory, Thos. Borthwick (A'sia) Ltd., Box 198, Feilding. (*Chemist*). A.'63.
- GREGORY, Elizabeth, M.H.Sc., Ph.D.(Lond.), Home Science School, University of Otago, Dunedin. (*Retired; formerly Professor of Home Science*). A.'39; F.'43.
- GREGORY, Lloyd Patrick, B.Sc., National Radiation Laboratory, Dept. of Health, Box 1456, Christchurch. (*Chemist*). A.'50.
- CRIFFIN, Donald John, M.Sc., N.Z. School of Pharmacy, P.O. Box 177, Petone. (*Instructor in Chemistry*). A.'59.
- GRIFFIN, Kenneth Massy, M.Sc., F.R.I.C., 29 Ridings Road, Remuera, Auckland, S.E.2. (*Retired, formerly Government Analyst, Auckland*). A.'31; F.'43; Hon. F.'63.
- GRIGG, Felix John Theodore, M.Sc., F.R.I.C., 61 Friend Street, Wellington, W.3. (*Retired, formerly Director, Dominion Laboratory, and Dominion Analyst*). F.'43.
- GRIGG, John Lawrence, M.Sc., Taieri Soil Research Station, Private Bag, Mosgiel. (*Officer-in-Charge*). A.'44.
- GRIGOR, John Andrew, M.Sc., Aranui High School, Christchurch. (*Asst. Master*). A.'63.
- GRIMMETT, Murray Ross, M.Sc., Chemistry and Biochemistry Department, Massey University of Manawatu, Palmerston North. (*Lecturer*). A.'61.
- GRIMMETT, Robert Edmund Richard, M.Sc., 55 Cashmere Avenue, Wellington, N.5. (*Retired*). A.'31; F.'34.
- GROOM, Philip Stanley, B.Sc., Chemistry Division, D.S.I.R., Private Bag, Petone. (*Scientific Officer*). A.'60.
- GUMBLEY, Miss Janice Marjorie, M.Sc., Ruakura Agricultural Research Centre, Private Bag, Hamilton. (*Scientific Officer*). A.'62.
- GUNDERSEN, Brian Donald, M.Sc., Watkins Cardinol Chemicals Ltd., New Plymouth. (*General Manager*). A.'64.

H

- HAGYARD, Thomas, B.Sc., Ph.D.(Lond.), M.I.Chem.E., University of Canterbury, Private Bag, Christchurch. (*Reader in Chemical Engineering*). A.'50.
- HALL, David, M.Sc., Ph.D., Chemistry Department, University of Auckland, P.O. Box 2175, Auckland. (*Associate Professor*). A.'51. F.'63.
- HALL, Ronald Berners, M.Sc., c/o N.Z. Forest Products Ltd., Private Bag, Auckland. (*Works Chemist, Penrose*). A.'59.
- HALL, Rorison Alexander, B.Sc., N.Z. Co-op. Dairy Co. Ltd., Matangi. (*Chemist*). A.'64.
- HALLIBURTON, Gavin Jack, M.Sc., A.N.Z.I.M., Johnson Wax (N.Z.) Ltd., P.O. Box 1673, Christchurch. (*Chemist and Factory Manager*) A.50.
- HANGER, William George, M.Sc., Ph.D.(Cantab.), McSkimming Industries, P.O. Box 46, Balclutha. (*Works Manager*). A.'59.
- HANSEN, Roy, Penrose, B.Sc., Fats Research Division, D.S.I.R., Sydney Street, Wellington. (*Principal Scientific Officer*). A.'46.
- HAPPER, Duncan Alan Robert, B.Sc.(Hons.), Ph.D.(Cantuar.), Chemistry Department, Brown University, Providence, 12, Rhode Island, U.S.A. (*Post Doctoral Fellow*). A.'62.
- HARRALL, Edward Douglas, Christchurch Milk Co. Ltd., P.O. Box 351, Christchurch. (*Assistant Chemist*). A.'59.
- HARTMAN, Leopold, M.Sc., D.Sc., B.E.Chem.(Lwow), Fats Research Division, D.S.I.R., Wellington. (*Principal Scientific Officer*). A.'49.
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- HAWKE, John Clement, M.Sc., Ph.D.(Cantab.), Chemistry and Biochemistry Department, Massey University of Manawatu, Palmerston North. (*Senior Lecturer*). A.'59.
- HAWTHORN, John Crawford, M.Sc., Formica (N.Z.) Ltd., Papakura, Auckland. (*Technical Manager*). A.'60.
- HAY, Robert Walker, B.Sc.(Hons.), Ph.D.(Glasgow), Chemistry Dept., Victoria University of Wellington, P.O. Box 196, Wellington (*Lecturer*). A.'63.

- HAYWARD, John Elliott, B.Sc., Colonial Ammunition Co. Ltd., Box 8511, Upper Symonds Street P.O., Auckland. (*Chief Chemist*). A.'45.
- HEALY, William Bernard, M.Sc., Ph.D.(Rutgers), Soil Bureau, D.S.I.R., Private Bag, Lower Hutt. (*Soil Chemist*). A.'50.
- HEBDEN, William Herbert, B.Sc., New Zealand Foods Ltd., P.O. Box 583, Hastings. (*Development Manager*). A.'50.
- HENWOOD, Charles Raymond, B.Sc.(Hons.)(Wales), Mana College, Porirua. (*Head of Chemistry Department*). A.'64.
- HERON, Henry James, M.B., Ch.B., Department of Obstetrics and Gynaecology, Medical School, P.O. Box 913, Dunedin. (*Research Officer*). A.'63.
- HERRMANN, Mrs. Romana, M.Phil. in Chem. (Warsaw), Chemistry Division, D.S.I.R., Private Bag, Petone. (*Scientific Officer*). A.'51.
- HICKS, Ronald, A.R.I.C., F.I.P.H.E., F.Inst.S.P. Auckland Metropolitan Drainage Board, P.O. Box 208, Auckland, C.I. (*Chief Chemist*). A.'52; F.'63.
- HIGGINS, Desmond James, B.Sc., A.M.I.Chem.E., Kempthorne Prosser and Co.'s N.Z. Drug Co., Hornby, Christchurch. (*Chief Production Officer, All Works*). A.'50.
- HILLS, Dennis Ashlev, B.Sc., Empire Rubber Mills, Woolston, P.O., Christchurch. (*Chief Chemist*). A.'60.
- HINDMARSH, William Ewan, B.Sc., Export Leather Industries Limited, Box 2352, Auckland. (*Managing Director*). A.'60.
- HITCHINGS, Terence Richard, M.Sc., Riccarton High School, Curletts Road, Christchurch. (*Senior Science Master*). A.'60.
- HOARE, John Leonard, M.Sc., Ph.D., Woollen Industries Research Institute, 444 George Street, Dunedin, N.I. (*Research Officer*). A.'60.
- HODDER, Ivan George, B.Sc., N.Z. Forest Products Ltd., Private Bag, Tokoroa. (*Works Chemist*). A.'50.
- HODGE, Robert Alexander Paul, B.Sc., Consolidated Chemicals Ltd., P.O. Box 15,104, Auckland. (*Assistant Chemist*). A.'62.
- HODGES, Richard, M.Sc., Ph.D.(Manc.), Ruakura Agricultural Research Centre, Private Bag, Hamilton. (*Scientific Officer*). A.'62.
- HODGSON, Gary Thomas, B.Sc., Reid Rubber Co. (N.Z.) Ltd., Auckland. (*Chemist*). A.'63.
- HOE, Yuan Liang, B.E.(Chem.), B.Sc., Arthur Lowe Ltd., P.O. Box 13011, Auckland, S.E.5. (*Chemical Engineer*). A.'57.
- HOCAN, Denis James, B.Sc., C.O.P.(Dairy Chem. and Bact.), Chemistry Division, D.S.I.R., P.O. Box 2112, Christchurch. (*Senior Scientific Officer*). A.'52.

- HOGG, Donald Elvery, B.Sc., Ruakura Agricultural Research Centre, Private Bag, Hamilton. (*Senior Scientific Officer*). A.46.
- HOGG, John Shone, M.Sc., Waimea College, Richmond, Nelson. (*Head of Science Department*). A.'64.
- HOLLAND, Harold Cecil, M.Sc., Ph.D.(Leeds), F.R.I.C., W. Sutherland & Co. Ltd., P.O. Box 5026, Auckland. (*Managing Director*). F.'61.
- HOLLOWAY, John Thorpe, M.Sc., F.R.S.N.Z., Forest and Range Expt. Station, N.Z. Forest Service, Rangiora. (*Senior Principal Scientific Officer*). A.'44.
- HOLMES, Alexander Colin, B.Sc., M.I.Chem.E., The Lactose Company of N.Z. Ltd., P.O. Box 424, Hawera. (*General Manager*). A.'39.
- HOLMES, George Stevenson, M.Sc., 44 Litten Road, Howick, Auckland. (*Fletcher Industries Ltd.*). A.'44.
- HOOKER, Ronald Owen, B.Sc., T. J. Edmonds Ltd., P.O. Box 472, Christchurch. (*Chief Chemist*). A.'59.
- HOPGOOD, Raymond Henry, B.Sc., Fletcher Industries Ltd., Private Bag, Auckland (*Chemist*). A.'58.
- HORN, Alexander Huntly, M.Sc., Lincoln College, Christchurch. (*Officer-in-charge, Chemical Services*). A.'52.
- HORNE, Philip Desmond, B.Sc., N.Z. Farmers' Fertiliser Co. Ltd., P.O. Box 41, New Plymouth. (*Chief Chemist and Acid Plant Superintendent*). A.'42.
- HOUNSELL, Eric Russell, M.Sc., University of Canterbury, Private Bag, Christchurch. (*Liaison Officer*). A.'41.
- HOUSE, Donald Alexander, M.Sc., Chemistry Department, Victoria University, P.O. Box 196, Wellington. (*Temporarily Overseas*). A.'61.
- HOWARD, Bernard Hugh, B.Sc.(Hons.)(Manc.), Ph.D.(Lond.), Lincoln College P.O., Christchurch. (*Professor of Biochemistry*). F.'64.
- HOWARD, Dene Grenville, M.Sc., Shell Oil N.Z. Ltd., P.O. Box 1084, Auckland. (*Sales Technical Adviser*). (*Temporarily overseas*). A.'46.
- HOY, Kenneth Frederick, B.Sc., Ruakura Agricultural Research Centre, Private Bag, Hamilton. (*Agricultural Chemist*). A.'47.
- HUBBARD, Edmund Francis, Laboratory, N.Z. Railways, Hutt Shops, Woburn. (*Chief Chemist*). A.'54; F.'62.
- HUBBARD, Peter John, B.Sc.(Lond.), G. W. Wilton Ltd., P.O. Box 1980, Auckland. (*Technical Officer*). A.'64.
- HUGHSON, Walter Gordon Mackenzie, M.Sc., M.Inst.F., Chemistry Division, D.S.I.R., Private Bag, Petone. (*Senior Fuel Chemist*). A.'31; F.'43.
- HUGILL, Archie James, B.Sc., Ph.D.(Birm.), Scott & Bowne (A'sia) Ltd., P.O. Box 124, Otahuhu, Auckland. (*Production Manager*). A.'61.

- HULLETT, Ernest William, M.Sc., Wheat Research Institute, P.O. Box 1489, Christchurch. (*Director*). A.'31; F.'43.
- HUNGERFORD, John Sealy, B.Sc., M.Inst.F., A.M.Inst.Gas.E., Wellington. Gas Company Ltd., P.O. Box 8070, Wellington (*Production Engineer*). A.'55.
- HUNT, Austen Hubert, M.Sc., c/o Perfection Ice Cream Co., 300 Manchester Street, Christchurch. (*Consulting Industrial Chemist*). A.'53.
- HUNT, Ian Sinclair, M.Sc., F.R.I.C., A.I.M., A.N.Z.I.W., Chief of Division of Wood Preservation and Seasoning, National Forest Products Laboratory, Faculty of Forestry, University of the Andes, Apartado 231, Merida, Venezuela. A.'41; F.'61.
- HUNTER, George John Ernest, M.Sc., F.R.I.C., Medical School, University of Otago, Dunedin. (*Senior Lecturer in Biochemistry*). A.'40.
- HUNTER, Jack Carlyle, A.S.T.C., Stedman Henderson's Sweets Ltd., 348 Rosebank Road, Avondale, Auckland. A.'62.
- HUNTER, Maurice, B.Sc., Dairy Division, Department of Agriculture, P.O. Box 110, New Plymouth. (*Chemist*). A.'56.
- HUNTER, Maxwell Thomas, B.Sc., Christchurch Gas Co. Ltd., Moorhouse Avenue, Christchurch. (*Analyst*). A.'59.
- HURST, Frank, M.Sc., Chemistry Division, D.S.I.R., Private Bag, Petone. (*Principal Scientific Officer, Organic*). A.'48.
- HUSHEER, Godfrey Asbjorn, B.Sc., Scientific Service Laboratories, P.O. Box 301, Napier. A.'59.
- HUTCHINSON, Robert Lewis, M.Sc., Lane, Walker and Rudkin Ltd., P.O. Box 992, Christchurch. (*Chief Chemist*). A.'48.
- HYATT, John Buchan, B.Sc.Agric.(Lond.), 37 Cooper Street, Karori, Wellington. (*Retired*). A.'31.

I

- ISHERWOOD, Peter Henry, M.Sc., Lactose Co. of N.Z. Ltd., Kaponga R.D., Taranaki (*Chemist*). A.'63.
- IVORY, Hugh Gordon, M.Sc., N.Z. Foods Ltd., P.O. Box 583, Hastings. (*Chief Chemist*). A.'53.

J

- JACKMAN, Richard Harry, B.Sc., Ph.D.(Iowa), Grasslands Division, D.S.I.R., Private Bag, Palmerston North. (*Principal Scientific Officer*). A.'51.
- JACKSON, Barrie Edward, B.Sc., Chemistry Division, D.S.I.R., Private Bag, Petone. (*Senior Scientific Officer, Petroleum Products*). A.'37.

- JACKSON, Douglas Wright, B.Sc., Challenge Phosphate Co., Otahuhu Auckland. (*Chief Chemist*). A.'57.
- JACKSON, Miss Phyllis Rosalind, M.H.Sc., Dip.Ed., Home Science School University of Otago, Dunedin. (*Senior Lecturer*). A.'40.
- JACKSON, William James, B.Sc.(Hons.)(Bristol), A.R.I.C., Southland Girls' High School, Tweed Street, Invercargill. (*Head of Science Department*). A.'64.
- JACOBSON, Paul Robert, M.Sc., Chemical Products (N.Z.) Ltd., G.P.O. Box 1955, Wellington. (*Director*). A.'52.
- JACGER, Lewis Woodhead, M.Sc., W. R. Fletcher (N.Z.) Ltd., Private Bay, Auckland, C.I. (*Chief Chemist*). A.'41.
- JAKOBSSON, Bjorn Frithiof, B.E.(Chem.), B.Sc., Lever Brothers (N.Z.) Ltd., Private Bag, Petone. (*Production Manager*). A.'55.
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- JAMESON, Michael Bruce, M.Sc., Chemistry Department, University of Canterbury, Private Bag, Christchurch. (*Ph.D. Student*). A.'64.
- JAMIESON, Norman Danford, M.Sc., N.Z. School of Pharmacy, Central Institute of Technology, Petone. (*Tutor in Chemistry*). A.'45.
- JEBSON, Richard Selwyn, B.E.(Chem.), B.Sc., A.M.I.Chem.E., Dairy Research Institute, P.O. Box 1204, Palmerston North. (*Chemical Engineer*). A.'57.
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- JEUNE, Wendy Margaret, B.Sc., B.P. (N.Z.) Ltd., Petone. (*Chemist*). A.'64.
- JOBEY, Desmond Ernest, B.A., B.Sc., Selwyn College, Auckland (*First Assistant and Head of Science Department*). A.'62.
- JOHANNESON, John Ker, M.Sc., A.R.I.C., Seddon Memorial Technical College, Wellesley Street, Auckland. (*Senior Lecturer in Chemistry*). A.'46; F.'60.
- JOHNS, Alan Tutton, M.Sc., Ph.D.(Cantab.), A.R.I.C., F.R.S.N.Z., Plant Chemistry Division, D.S.I.R., Private Bag, Palmerston North. (*Director*). A.'49; F.'60.
- JOHNSON, Alexander Lawrence, M.Sc., Ph.D.(Rochester), Central Research Department, E. I. Du Pont de Nemours and Co. Inc., Wilmington 98, Del., U.S.A. A.'58.
- JOHNSON, Cecil Barry, M.Sc., Chemistry Department, Victoria University of Wellington, P.O. Box 196, Wellington. (*Research Student*). A.'62.
- JOHNSON, Colin Truscott, M.Sc., Union Carbide Co., Wellington. (*Project Development Chemist*). A.'62.
- JOHNSTONE, Francis Henry George, 250 Selwyn Street, Christchurch, 2, (*Retired*). A.'31,

- JOINER, William Alexander, M.Sc., F.R.I.C., M.I.Chem.E., 74 Rakau Road, Wellington. (*Retired—formerly Deputy Secretary, D.S.I.R.*). A.'31; F.'43.
- JONES, Alan Charles Edgar, B.Sc., Patent Office, Wellington. (*Chemical Examiner*). A.'64.
- JONES, Brian Ogilvie, B.Sc., N.Z. Forest Products, Private Bag, Auckland. (*Chemist, Production*). A.'51.
- JONES, Clarence Desmond Burson, B.Sc., Onewhero District High School, Onewhero. (*Teacher*). A.'53.
- JONES, Richard Glynn, M.Sc., Department of Physical Chemistry, The University, Leeds, 2, England. (*Research Student*). A.'64.
- JONES, Ronald Sydney, M.Sc., 32 Douglas Street, Timaru. (*Science Master, Timaru Boys' High School*). A.'44.
- JUSTICE, Edmond Alexander, Dip.Ing.Chem.(Zurich), Guild Rubber Co., P.O. Box 5008, Papanui, Christchurch. (*Company Manager*). A.'39.

K

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- KELSEY, Oliver James, M.Sc., 18 Buckland Beach Road, Buckland's Beach, Auckland. A.'52.
- KENNEDY, Alistair Miles, B.Sc., B.E.(Chem.), Ph.D.(Cantab.), A.M.I. Chem.E., Chemistry Department, University of Otago, Dunedin. (*Senior Lecturer in Applied Chem.*) A.'57.
- KENNEDY, John Wallace, A.G.Inst.Tech., A.R.A.C.I., N.Z. Farmers' Fertilizer Co Ltd., P.O. Box 759, Auckland. (*Works Manager*). A.'57.
- KENNEDY, Thomas Henry, M.Sc., Thyroid Research Department, Medical School, University of Otago, Dunedin. (*Chemist*). A.'39.
- KENNERLEY, Rowland Alfred, M.Sc., Chemistry Division, D.S.I.R., Private Bag, Petone. (*Principal Scientific Officer*). A.'50; F.'62.
- KENNETT, Arthur Cecil, B.Sc.(Lond.), Chemistry Division, D.S.I.R., P.O. Box 2224, Auckland. (*Principal Scientific Officer*). A.'64.
- KERR, Ivan James, M.Sc., Wellington Polytechnic, Private Bag, Wellington. (*Tutor*). A.'62.
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- KEYS, Oswald Hilton, M.Sc., A.R.I.C., Chemistry Division, D.S.I.R., P.O. Box 2224, Auckland. (*Government Analyst*). A.'32; F.'63.

- KHOO, Kean Huat, B.Sc. (Hons.), Chemistry Dept., Otago University. (Ph.D. Student). A.'64.
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- KIDSON, Elsa Beatrice, D.Sc., F.R.I.C., F.R.S.N.Z., Cawthron Institute, P.O. Box 175, Nelson. (Senior Chemist Soil Bureau D.S.I.R., Seconded to Cawthron Institute). A.'31; F.'43.
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- KING, The Rev. Meyrick Vincent Bryan, M.Sc., 6 Ettrick Street, Oamaru. (Assistant Curate, Oamaru). A.'36.
- KINGSFORD, Michael, M.Sc., Ph.D.(Auckland), N.Z. School of Pharmacy, Petone. (Lecturer). A.'59.
- KIRK, David Neville, B.Sc.(Hons.), Ph.D.(Lond.), (Overseas). A.'62.
- KITT, Watson, B.Sc., Chemistry Division, D.S.I.R., Private Bag, Petone. (Scientific Officer). A.'51.

L

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- LATIMER, Graeme Bruce, B.E.(Chem.), B.Sc., Engineering and Physics Dept., Massey University of Manawatu, Palmerston North (Lecturer). A.'61.
- LATTEY, Miss Janet Mary, BSc., Patent Office, Wellington. (Chemical Examiner). A.'64.
- LAW, Brunel Robert, A.R.A.C.I., c/o P.O. Box 2503, Wellington. (Retired formerly Managing Director and Deputy Chairman, I.C.I. (N.Z.) Ltd.). A.'53.

- LAW, Norman Heyworth, M.Sc., F.R.I.C., Meat Industry Research Institute of N.Z. (Inc.), P.O. Box 617, Hamilton. (*Director*). A.'47; F.'50.
- LAWRENCE, Gilbert Alexander, B.Sc., F.R.I.C., M.B.E., Chemical Service Laboratory, Johnsonville. (*Chairman Directors, H. W. Lawrence and Son Ltd.*). A.'31; F.'35; Hon.F.'63.
- LAWRENCE, Robert Charles, B.Sc.,(Hons.)(Lond.), Dairy Research Institute, P.O. Box 1204, Palmerston North. (*Temporarily Overseas*). A.'58.
- LAWRY, Robert Courtney, M.Sc., Brightwater, Nelson. (*Managing Director, W. L. Lawry Ltd., Lime Manufacturers*). A.'44.
- LAWS, George Frederick, B.Sc., Ph.D.(Lond.), F.R.I.C., Hydatid Research Unit, Medical School, P.O. Box 913, Dunedin. (*Senior Research Officer*). F.'64.
- LEESE, Ernest, 76 Russell Road, Whangarei. (*Consultant Cement-Concrete and Allied Products*). A.'33; F.'34.
- LEIGHTON, Francis Royden, B.Sc.(Pretoria), N.Z. Co-operative Dairy Co., Box 459, Hamilton. (*Senior Assistant Chemist*). A.'59.
- LEONARD, John Henry, M.Sc., N.Z. Forest Products Ltd., Private Bag, Auckland. (*Research Chemist*). A.'60.
- LE QUESNE, Philip William, M.Sc., Ph.D.(Auckland), Chemistry Department, University of Auckland, P.O. Box 2175, Auckland. (*Ph.D. Student*). A.'62.
- LEVER-NAYLOR, Peter, B.Sc., The Nestle Company (Australia) Ltd., 17 Foveaux Street, Sydney, N.S.W. A.'49.
- LEVIEN, Miss Barbara Joan, M.Sc., Chemistry Department, University of Western Australia, Perth, W.A. A.'46.
- LEWIN, Arthur Harry, B.Sc., Cadbury Fry Hudson Ltd., Castle Street, Dunedin. (*Chemist*). A.'53.
- LINZEY, John Trevillian, B.Sc., McSkimming Industries Ltd., P.O. Box 2001, Dunedin. (*Chief Chemist*). A.'44.
- LLEWELLYN, Donald Rees, D.Sc., D.Phil., F.R.I.C., University of Waikato, Hamilton. (*Vice-Chancellor*). F.'58.
- LLEWELLYN, Frederick John, B.Sc., Ph.D., D.Sc., Hon. LL.D.(Canterbury), F.R.C., F.R.S.A., F.R.S.N.Z., Chairman, University Grants Committee, P.O. Box 8035, Wellington. F.'47.
- LOCKER, Ronald Harry, M.Sc., Ph.D., Meat Industry Research Institute of N.Z. (Inc.), Box 617, Hamilton. (*Biochemist*). A.'50.
- LOCKHART, Douglas Watson, M.Sc., King's High School, Bay View Road, Dunedin. (*Senior Physics Master*). A.'54.
- LOE, John Anthony, M.Sc., N.Z. Forest Products Ltd., Private Bag, Tokoroa. (*Chlorine and Bleach Plant Manager*). A.'55.

- LONG, Miss Anwyn Margaret, M.Sc., I.C.I.A.N.Z., Central Research Laboratories, Newson Street, Ascot Vale, Victoria, Australia. (*Research Officer*). A.'58.
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- LONGBOTDOM, Herbert Leslie, B.Sc. (Melb.), B.Sc., M.B.E. Glendermid Ltd. P.O. Box 40, Dunedin. (Tanners and Leather Merchants). (*Managing Director*). A.'38.
- LONSKA, Mrs. Maria, Ph.D.(Kharkov), S. W. Peterson and Co. Ltd., 165 Vivian Street, Wellington, C.2. (*Chemist*). A.'52.
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M

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- McCURDY, Alan Underwood, B.A., B.Sc., Post-Primary Department, Teachers' College, Christchurch. (*Senior Lecturer in Chemistry*). A.'61.
- McDONALD, Ian Robert Clark, M.Sc., A.R.I.C., Chemistry Division, D.S.I.R., Private Bag, Petone. (*Senior Principal Scientific Officer*). A.'50.
- McDONALD, James Allan, B.Sc., Mt. Albert Grammar School, Auckland. (*Teacher*). A.'64.
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- McDOWALL, Ian Campbell, M.Sc., School of Architecture, University of Melbourne (*Research Fellow in Ceramics*). A.'45.
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- McFarlane, Bruce Galbraith, B.Sc., Hastings Boys' High School, Hastings. (*Head of Science Department*). A.'64.
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- McGIMPSEY, James Raynond, M.Sc., A.M.I.Chem.E., A.R.I.C., Davis Gelatine (N.Z.) Ltd., Connal Street, Woolston, Christchurch. (*Production Manager*) A.'51.
- McGRATH, Michael John Alexander, M.Sc., Chemistry Dept., Otago University. (*Ph.D. Student*). A.'64.
- McINTOSH, Ian Gordon, B.Sc., Wallaceville Animal Research Station, Private Bag, Wellington. (*Senior Principal Scientific Officer*). A.'36.
- MACKAY, Angus Murray, B.Sc., B.P. (N.Z.) Ltd., Petone. (*Industrial Chemist*).
- McKEE, Tasman Joseph, B.Sc., M.Aust.I.M.M., Fruitgrowers' Chemical Co. Ltd., Lime and Marble Ltd., and Buller Uranium Ltd., Port Mapua, Nelson. (*Managing Director*). A.'46.
- McKEEGAN, William Relph, M.Sc., Dip.Ind.Chem., Aulsebrooks Ltd., P.O. Box 357, Christchurch. (*Chemist*). A.'51.
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- MACKNEY, Alan William, M.Sc. (Sydney), F.R.A.C.I., N.Z. Forest Products Ltd., Private Bag, Auckland. (*Technical Director and Director of Production (Pulp and Paper)*). A.'44; F.'63.
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- MACLEAN, Dorothy Margaret, B.Sc., Pathology Department, Public Hospital, Wellington. (*Biochemist*). A.'59.
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- McNAUGHT, Robert Leslie, B.Sc., Reckitt and Colman (N.Z.) Ltd., P.O. Box 965, Dunedin (*Works Chemist*). A.'63.
- McNAUGHTON, Graeme Stuart, M.Sc., Ph.D., Isotopes Division, Wantage Research Laboratory, Wantage, Berks., England. (*Research Fellow*). A.'60.
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- MAHON, William Anthony John, M.Sc., Chemistry Division, D.S.I.R., c/o Ministry of Works, Wairakei. (*Scientific Officer*). A.'62.
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- MALCOLM, Geoffrey Norman, M.Sc., Ph.D.(Manc.), Chemistry Department, University of Otago, P.O. Box 56, Dunedin (*Senior Lecturer*). A.'60.
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- MARSHALL, Thomas, B.E., B.Sc., A.O.S.M., A.I.M.E., Chemistry Division, D.S.I.R., Private Bag, Petone. (*Senior Metallurgist*). A.'55.
- MARTIN, Charles George, M.Sc., A.M.I.Chem.E., A.M.N.Z.I.E., A.M. Inst.F., 223 Mt. Pleasant Road, Christchurch. (*Consulting Chemical Engineer*). A.'49.
- MARTIN, Gerald Francois Louis, B.Sc., Wellington Meat Export Co. Ltd., Box 190, Wellington. (*Works Manager*). A.'44.
- MARTIN, Gordon Calder, M.Sc., Southland Boys' High School, Invercargill (*Head of Science Department*). A.'42.
- MARTIN, James Keith, M.Sc., Ph.D., Soil Bureau, D.S.I.R., Private Bag, Lower Hutt. A.'55.
- MASKILL-SMITH, Gordon, M.Sc., A.R.I.C., M.I.Chem.E., A.M.N.Z.I.E., N.Z. Wallboards Ltd., 153A Balmoral Road, Auckland, S.2. (*General Manager*). A.'38.
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- MASTERS, Colin John, M.Sc., C.O.P.H.L.P., University of Queensland, Brisbane. (*Lecturer in Biochemistry*). A.'53.
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- MATTHEWS, Richard Ellis Ford, M.Sc., Ph.D., F.R.S.N.Z., Microbiology Department, University of Auckland, P.O. Box 2175, Auckland. (*Professor of Microbiology*). A.'60; F.'63.
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- MAYNE, Alan John, M.Sc., Lever Bros. (N.Z.) Ltd., Private Bag, Petone. (*Chief Chemist*). A.'62.
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- METCALF, Mrs. Mary Glen, M.Sc., Full-Time Medical Unit, the Princess Margaret Hospital, Christchurch. (*Biochemist*). A.'62.
- METCALF, Walter Sidney, Mus.B., M.Sc., D.Phil.(Oxon.), Chemistry Department, University of Canterbury, P.O. Box 1471, Christchurch. (*Senior Lecturer*). A.'41.
- METCALFE, Alan, B.Sc.(Hons.), Ph.D.(Bristol), Chemistry Department, University of Canterbury, Private Bag, Christchurch. (*Lecturer*). A.'64.
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- MILLER, Ronald Bruce, B.A., M.Sc., Agr.L.(Sweden), Soil Bureau, D.S.I.R., Private Bag, Lower Hutt. (*Senior Soil Chemist*). A.'46.
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- MITCHELL, Thomas Alexander, M.Sc., Wheat Research Institute, P.O. Box 1489, Christchurch. (*Senior Scientific Officer*). A.'52.
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- MOFFAT, Johnstone Flucker, B.A., M.Sc., 18 Royds Street, Christchurch. (*Retired*). A.'31.
- MOIR, George Morrison, M.Sc., Ph.D.(Reading), F.R.I.C., 231 Main Road, Upper Hutt (*Retired*). A.'50.
- MOK, Kum Fum, M.Sc., Chemistry Dept., Victoria University of Wellington. (*Ph.D. Student*). A.'64.
- MOLLOY, James Joseph, M.Sc., East Coast Farmers' Fertiliser Co., P.O. Box 392, Napier, (*Production Superintendent and Chief Chemist*). A.'53.
- MONIGATTI, John David William, M.Sc., A.R.I.C., King's College, Box 12, Otahuhu, Auckland, S.E.7. (*Senior Chemistry Master*). A.'48.
- MONK, Robert Joseph, B.Sc., Nelson City Council Gasworks, Nelson. (*Chemist*). A.'50.
- MONRO, Alexander Donald, M.Sc., A.R.I.C., Seaview Road, Paremata. (*Formerly Associate Professor, Chemistry Department, Victoria University of Wellington*). A.'31; F.'34; Hon. Fellow '61.
- MOONEY, Eric Allan, B.Sc., Hayes Metal Refineries Ltd., P.O. Box 9029, Newmarket, Auckland. (*Assistant Chemist*). A.'52.
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- MOORE, John Brian, B.Agr.Sc., Canterbury Frozen Meat Co. Ltd., P.O. Box 2, Belfast. (*Chemist*). A.'60.
- MOORE, William Alexander, B.Sc., B.A.L.M. Paints Ltd., P.O. Box 1009, Auckland. (*Technical Officer*). A.'62.
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- MORGAN, Francis, M.P.S., Wellington Drug Co. Ltd., Box 6023, Wellington. (*Managing Director*). A.'40.
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- MORRIS, Harley Alton Lyal, B.Sc., Dept. of Food Technology, Massey University of Manawatu, Palmerston North. (*Senior Lecturer*). A.'49.
- MORRISON, Dan Alexander, M.Sc. (*Overseas*). A.'60.
- MORTON, Ian Douglas, M.Sc., Ph.D.(Cantab.), F.R.I.C., Unilever Research Laboratory, The Frythe, Welwyn, Herts., England. (*Section Manager*). A.'44; F.'55.
- MOUSTAFA, Esam, M.Sc., Ph.D.(Cantab.), Plant Chemistry Division, D.S.I.R., Private Bag, Palmerston North. (*Principal Scientific Officer*). A.'61.
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- NAUEN, Oskar Max Fritz, Dr.Ing.(Munich). (*Retired, Overseas*). A.'44.
- NELSON, Donald Frederick, M.Sc., D.Crim., C.O.P. (Dairy Bact., Dairy Chem. Dairy Pract.), Chemistry Division, D.S.I.R., P.O. Box 2224, Auckland. (*Principal Scientific Officer*). A.'46.
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- NOBLE-CAMPBELL, Vincent Cedric, B.Sc., Union Carbide N.Z. Pty. Ltd., Wellington. (*Works Chemist*). A.'60.
- NORDMARK, Birger Arnold, Ing.(Stockholm), A.N.Z.I.M., N.Z. Co-op Dairy Co. Ltd., P.O. Box 459, Hamilton. (*Chemist*). A.'63.
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- OLDFIELD, Samuel Langdon, B.Sc., Auckland Farmers' Freezing Co. Ltd., Southdown, Auckland. (*Chemist*). A.'53.
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- OLIVER, William Haldane, M.Sc., M.P.S., Oliver Pharmaceutical Co. Ltd., Box 2122, Wellington. (*Managing Director*). A.'50.
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- OXLEY, Frank William, B.Sc., Reckitt and Colman, (N.Z.) Ltd., Rosebank Road, Avondale, Auckland. (*Works Chemist*). A.'53.

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- PARTON, Hugh Noble, M.Sc., Ph.D.(Lond.), Chemistry Department, University of Otago, Dunedin. (*Professor of Chemistry*). A.'31; F.'39.
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- PERRY, Keith David, B.Sc.(Hons.)(Bristol), Ph.D.(Reading), M.R.S.H., Ranks Hovis McDougall (Research) Ltd., Cressex Laboratories, High Wycombe, Bucks., England. (*Chief Microbiologist*). A.'59.
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- POPPELBAUM, Adalbertus Henricus, Westfield Freezing Co. Ltd., Private Bag, Auckland. (*Chemist*). A.'59.
- POPPELWELL, Kenneth Bruce, Patent Office, Wellington. (*Patent Examiner*). A.'64.
- PRICE, Harlech Craig, B.Sc., Biological Labs., Cambridge, 38, Mass., U.S.A. A.'63.

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- QUICKENDEN, Terence Ivan, M.Sc., Chemistry Department, University of Canterbury, Private Bag, Christchurch. (*Ph.D. Student*). A.'62.

R

- RADCLIFFE, Cedric Burton, M.Sc., A.R.I.C., Caxo Laboratories (N.Z.) Ltd., P.O. Box 624, Palmerston North. (*Development Manager*). A.'31.
- RADFORD, Peter John, B.Sc., c/o Thomson Research Associates, 53 Shaw Street, Toronto, Ontario, Canada. (*Laboratory Manager*). A.'56.
- RAFTER, Thomas Athol, O.B.E., M.Sc., A.R.I.C., F.R.S.N.Z., Institute of Nuclear Sciences, D.S.I.R., Private Bag, Lower Hutt. (*Director*). A.'48.
- RALPH, Raymond Keith, M.Sc., Ph.D.(N.S.W.), Microbiology Dept., Auckland University, P.O. Box 2175, Auckland. (*Senior Lecturer*). A.'63.
- RAMAGE, Bruce Bower, B.Sc., Teacher's College, P.O. Box 615, Palmerston North. (*Lecturer in Mathematics*). A.'57.
- RAMMELL, Colin George, B.Sc.(Hons.)(Birmingham), Dairy Laboratory, Wallaceville. (*Bacteriologist*). A.'61.
- RANDS, Henry, M.A., B.Sc., 382 Karori Road, Wellington, W.3. (*Retired*). A.'31; F.'34; Hon.M.
- RANDS, Maxwell Barrett, M.Sc., Southdown Laboratory, Auckland Farmers' Freezing Co. Ellerslie, Auckland, S.E.6. (*Chief Chemist*). A.'37; F.'57.
- RANKIN, Hugh McDougall, A.S.T.C., Dip.Ind.Chem. and Chem.Engn., N.Z. Breweries, P.O. Box 23, Auckland. (*Brewer*). A.'54.
- RANSOM, Thomas, B.Sc.(Birm.), Freyberg High School, Palmerston North. (*Assistant Master*). A.'64.
- REID, Mrs. Mary Ruth, M.Sc., 117 Watford Street, Papanui, Christchurch. (*Science Teacher, Christchurch Girls' High School*). A.'59.

- RHODES, Desmond Cecil, M.Sc., Thames High School. (*Assistant Master*). A.'63.
- RICHARDS, Edward Leonard, M.Sc., Ph.D.(Bristol), Chemistry and Biochemistry Department, Massey University of Manawatu, Palmerston North. (*Senior Lecturer*). A.'56; F.'63.
- RICHARDS, Nolan Earle, M.Sc., Ph.D., Reduction Research Division, Reynolds Metals Co., P.O. Box 191, Sheffield, Alabama, U.S.A. (*Director, Basic Research*). A.'54.
- RICHARDS, Peter Russell, M.Sc., Christchurch Boys' High School, Straven Road, Christchurch. (*Assistant Master*). A.'64.
- RICHARDSON, George Maxwell, M.Sc., D.Sc.(Lond.), Ph.D.(Lond.), D.I.C., National Health Institute, 52-62 Riddiford Street, Wellington, S.I. (*Research Officer*). A.'49.
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- RICKARD, Donald Stuart, M.Sc., Winchmore Irrigation Research Station, Private Bag, Ashburton. (*Officer-in-charge, Laboratory*). A.'50.
- RICKETTS, James, M.Sc., A.R.I.C., 27 Mahoe Avenue, Remuera, Auckland. (*Chief Chemist, Dominion Breweries Ltd., Otahuhu*). A.'36.
- RIGG, Sir Theodore, K.B.E., M.Sc., M.A.(Cantab.), Hon.D.Sc.(W.A. and N.Z.), F.R.S.N.Z., F.R.I.C., 5 Taupata Street, Stoke, Nelson. (*Retired, formerly Director, Cawthron Institute*). A.'31; F.'41; Hon.F.'56.
- RITCHIE, John Adolph, B.Sc.(Edin.), Chemistry Division, D.S.I.R., Private Bag, Petone. (*Principal Scientific Officer, Minerals*). A.'50.
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- ROBERTS, Charles Clarence, M.Sc., U.N.T.A.B., P.O. Box 5, Kabul, Afghanistan. A.'36.
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- ROBINSON, James Roper, B.A., Ph.D.(Cantab.), M.D., F.R.S.N.Z., Dept. of Physiology, Medical School, P.O. Box 913, Dunedin. (*Professor*). F.'63.
- ROBINSON, Michael Alan, M.A., B.Sc.(Oxon), A.R.I.C., International Paints, P.O. Box 7520, Kilbirnie, Wellington. (*Chief Chemist*). A.'59.
- ROBINSON, Robert Anthony, O.B.E., D.Sc.(Birm.), Ph.D.(Birm.), F.R.I.C., National Bureau of Standards, Washington D.C., 20234, U.S.A. F.'45.

- ROBINSON, Ward Thomas, M.Sc., Ph.D.(Cantuar.), Chemistry Department, Brown University, Providence 12, Rhode Island, U.S.A. (*Research Associate*). A.'62.
- RODLEY, Gordon Allen, M.Sc., Ph.D.(Lond.), Chemistry Department, University of Canterbury, Private Bag, Christchurch. (*Lecturer in Inorganic Chemistry*). A.'64.
- ROGERS, John, Ph.D.(Cantab.), M.Sc., M.A.I.M.E., M.Aust.I.M.M., c/o Chemistry Department, University of Otago, Dunedin. (*Senior Principal Scientific Officer, Geological Survey*). A.'46.
- ROLT, William Frederick, B.Sc.(Lond.), Ruakura Agricultural Research Centre, Private Bag, Hamilton. (*Chemist*). A.'47.
- RONALDSON, John William, M.Sc., Ruakura Agricultural Research Centre, Private Bag, Hamilton. (*Senior Scientific Officer*). A.'47.
- ROPER, Warren Richard, M.Sc., Ph.D. (Cantuar.), Chemistry Department, University of North Carolina, Chappel Hill, N.C., U.S.A. (*Post-Doctoral Research Fellow*). A.'62.
- ROSS, Desmond Joseph, M.Sc., Ph.D.(Lond.), Dip.Bact.(Lond.), Soil Bureau, Private Bag, Lower Hutt. (*Senior Principal Scientific Officer*). A.'48.
- ROSS, Miss Joan Barnard, M.Sc., Chemistry Division, D.S.I.R., Private Bag, Petone. (*Senior Scientific Officer*). A.'45.
- ROTHBAUM, Henry Peter, B.A., M.Sc., Ph.D.(Liverpool), Chemical Research Laboratories, D.S.I.R., Teddington, London. (*Research Fellow*). A.'48.
- ROY, Ronald Urwin, B.Sc., Dept. of Education, P.O. Box 2612, Christchurch. (*Inspector of Post-Primary Schools*). A.'63.
- RUDDLE, Leslie William, 124 Stapletons Road, Christchurch, 1. (*Retired*). A.'33; F.'41.
- RUFFELL, Gerald Ernest, B.Sc., Reckitt, Colman, Nuggett Ltd., Auckland. (*Asst. Res. Chemist, Trimol Division*). A.'64.
- RUMSBY, Marlin Gregory, B.Sc.(Hons.), Ph.D.(Birm.), A.R.I.C., Department of Chemistry and Biochemistry, Massey University of Manawatu, Palmerston North. (*Lecturer*). A.'64.
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- RUSSELL, Gordon Richard, C.S.I.R.O., Division of Biochemistry and General Nutrition, University of Adelaide, Adelaide, South Australia. (*Experimental Officer*). A.'61.
- RUSSELL, Graeme Baxter, B.Sc.(Hons.), Ph.D.(Cantuar.), Plant Chemistry Division, D.S.I.R., Private Bag, Palmerston North. (*Scientific Officer*). A.'62.
- RUSSELL, William Ernest, M.Sc., A.R.I.C., M.I.Chem.E., N.Z. Farmers' Fertiliser Co. Ltd., Te Papapa, Auckland. (*Works Superintendent*). A.'43; F.'63.

RUTLEDGE, Peter Stewart, M.Sc., University of Michigan, Ann Arbor, Michigan, U.S.A. (*Research Associate*). A.'60.

RYBURN, Graham Middleton, B.Sc., C/o C. W. Angus, 1 Benson Flats, Marion St., Heretaunga, Upper Hutt. (*Temporarily Overseas*). A.'60.

S

SAMPEY, Miss Elizabeth Margaret, B.Sc., Biochemistry Department, University of Queensland, St. Lucia, Brisbane, Australia. (*Demonstrator*). A.'58.

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- SELKIRK, Ronald Charles, M.Sc., A.R.I.C., Chemistry Division, D.S.I.R., P.O. Box 2224, Auckland. (*Principal Scientific Officer*). A.'49.
- SEWELL, Owen Keith, M.Sc., Ph.D.(Birm.), A.R.I.C., Ivon Watkins-Dow Ltd., P.O. Box 144, New Plymouth. (*Chief Chemist*). A.'48.
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- SHAND, Allan Douglas, B.Sc., B.Agr.Sc., A.N.Z.I.M., D. H. Brown and Son, Christchurch. (*Technical Manager*). A.'54.
- SHARMAN, John Robert, M.Sc., Taieri Agricultural Research Centre, Mosgiel. (*Officer in Charge, Chemical Section, Diagnostic Unit*). A.'64.
- SHEARER, Barry James, M.Sc., Department of Organic Chemistry, University of Adelaide, Adelaide, S.A., Australia. (*Demonstrator*). A.'64.
- SHEAT, David Edwin Gordon, M.Sc., Ph.D.(Manc.), Botany Department, University of Canterbury, Private Bag, Christchurch. (*Senior Lecturer*). A.'60.
- SHEAT, Sylvia Vine, M.Sc., Chemistry Department, University of Auckland, P.O. Box 2175, Auckland. (*Temporary Junior Lecturer*). A.'62.
- SHEPHERD, Ronald Henry, M.Sc., A.M.N.Z.E.I., Imperial Chemical Industries (N.Z.) Ltd., P.O. Box 1592, Wellington. (*Technical Officer*). A.'46.
- SHORLAND, Francis Brian, O.B.E., M.Sc., Ph.D.(Liv.), D.Sc.(Liv.), F.R.S.N.Z., Fats Research Division, D.S.I.R., Wellington. (*Director*). A.'33; F.'43.
- SIEMON, Stanley Robert, M.I.Chem.E., F.N.Z.I.E., A.R.A.C.I., University of Melbourne, Parkville, N.2., Melbourne, Australia. (*Professor of Chemical Engineering*). A.'44; F.'58.
- SIMPSON, William Stanley, M.Sc., Ph.D.(Leeds), Chemistry Division, D.S.I.R., Private Bag, Petone. (*Chemist, Wool Research Assn.*). A.'61.
- SINCLAIR, Robert Malcolm, M.Sc., Chemistry Division, D.S.I.R., Private Bag, Petone. (*Principal Scientific Officer*). A.'47.
- SINCLAIR, Roy Lanham, M.Sc., School of Chemistry, University of Sydney, Sydney, N.S.W., Australia. (*Lecturer*). A.'62.
- SIRETT, Nancy Elliot, B.Sc., Endocrinology Research Unit, Medical School, P.O. Box 913, Dunedin. (*Research Officer*). A.'61.
- SINHA, Anandi Prasad, Vill Sosandi, P.O. Sonsa, Patna District, Bihar State, India. A.'61.
- SKELTON, Charles Derek, M.Sc., Auckland Public Hospital (*Manager, Intravenous Solutions*). A.'60.
- SLATER, Stanley Nelson, M.Sc., D.Phil.(Oxon.), F.R.I.C., Chemistry Department, Victoria University of Wellington, P.O. Box 196, Wellington. (*Professor of Chemistry*). A.'38; F.'49.

- SLEEMAN, Geoffrey Russel, M.Sc., Chemical Products (N.Z.) Ltd. (Director). A.'60.
- SMALL, Charles William, M.Sc., C.O.P. M.L.T., Pathology Department, Greenlane Hospital, Auckland. (Biochemist). A.'63.
- SMITH, Mrs. Jane Birch, B.H.Sc., Queen's University, Kingston, Ontario, Canada. A.'62.
- SMITH, John Norman, B.Sc.(Hons.), Ph.D., D.Sc.(Liverpool), Chemistry Department, Victoria University of Wellington, P.O. Box 196, Wellington. (Professor of Biochemistry). F.'64.
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- SMITH, Robert Frederick, M.Sc., Ph.D.(Otago), Queen's University, Kingston, Ontario, Canada. (Ph.D. Student). A.'62.
- SNELL, Wynne Arbuthnot, B.Sc., N.Z. Co-op Rennet Co. Ltd., P.O. Box 57, Eltham. (Chief Chemist). A.'57.
- SOMERVILLE, William Campbell, B.Sc.(Hons.)(Edin.), Ph.D.(Edin.), Chemistry Department, University of Otago, P.O. Box 56, Dunedin. (Part-time Lecturer). A.'61.
- SOPER, Frederick George, C.B.E., Ph.D., D.Sc.(Wales), F.R.I.C., F.R.S.N.Z., (Retired). Formerly vice-Chancellor, University of Otago, Dunedin. F.'36.
- SOUTHWARD, Charles Ramsey, M.Sc., Dairy Research Institute, P.O. Box 1204, Palmerston North. (Chemist). A.'62.
- SPACKMAN, Leonard Storkey, 501 R.S.A. Buildings, High Street, Auckland, C.I. (Public Analyst and Consulting Chemist). A.'31.
- SPEEDING, David John, M.Sc., Chemistry Dept., University of Wellington, P.O. Box 196, Wellington. (Ph.D. Student). A.'63.
- SPROTT, Thomas James, M.Sc., Ph.D., 53 King George Avenue, Auckland, S.E.3. (Consultant). A.'48.
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- STACE, Gordon Walter, 5 West Roberts Road, Pakuranga, Auckland, C.I. (Retired). A.'41.
- STANDISH, Nicholas, M.Sc.(N.S.W.), Faculty of Technology, University of Otago. (Lecturer in Metallurgy). A.'63.
- STANLEY, Bernard George, M.Sc., A. C. Hatrick (N.Z.) Ltd., P.O. Box 5, Tawa, Wellington. (Assistant General Manager). A.'49.
- STANSFIELD, Roger Henry John, 56 Buckland Road, Mt. Roskill, Auckland, S.2. A.'31.
- STAPLES, Kenneth William, B.Sc., N.Z. Forest Products Ltd., Private Bag, Tokoroa. (Chemist). A.'57.

- STEDMAN, Brian Maurice, M.Sc., N.Z. Refrigerating Co. Ltd., Islington, Private Bag, Christchurch. (*Assistant Chemist*). A.'49.
- STEDMAN, David Ingle, M.Sc., South Otago High School, Balclutha. (*Asst. Master*). A.'63.
- STEWART, Martin Louis Haerpfner, M.Sc., F.R.I.C., 31 Witako Street, Lower Hutt. (*Retired*). A.31; F.'39
- STEWART, Rex George, M.Sc., A.R.I.C., Wool Industries Research Institute, 444 George Street, Dunedin. (*Research Officer*). A.'61.
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- STONYER, Cyril Lester Haste, B.Sc., Tasman Vaccine Laboratory Ltd., P.O. Box 29, Upper Hutt. (*Industrial Chemist, Chemical Products Department*). A.'46.
- STOTT, James Boothroyd, Ph.D.(Leeds), Coal Mining Research Department, University of Otago, Dunedin, N.I. (*Senior Lecturer*). A.'54.
- STRANG, William Ritchie, M.Sc., Shell Oil (N.Z.) Ltd., P.O. Box 2091, Wellington. (*Sales Chemist*). A.'63.
- SUMMERVILLE, Oscar, B.Sc., Solway Products, 23 Patrick St., Auckland, S.E.5. (*Chemist*). A.'59.
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- SUTHERLAND, Arthur John, A.M.T.C., Hutt Valley Memorial Technical College, Buick Street, Petone. (*Head of Science Department*). A.'58.
- SUTHERLAND, Graeme John, M.Sc., Ph.D.(Cantuar.), Chemistry Department, University of Michigan, Ann Arbor, Mich., U.S.A. (*Post-Doctoral Research Fellow*). A.'62.
- SUTHERLAND, James Nelson, M.Sc., C.O.P. (Bact. and Clin. Path.), King Edward Technical College, Dunedin. (*Science Master*). A.'40.
- SUURING, Mrs. Dora. Cand. and Doct. Exam.(Amsterdam). A.R.I.C., Onslow College, Johnsonville. (*Science Teacher*). A.'54.
- SWAN, William Gourlie, M.Sc., Papanui High School, Langdons Road, Christchurch, 5. (*Head of Science Department*). A.'63.
- SWANEY, Alan Harding, B.Sc., Dip.Ind.Chem., A. C. Nottingham & Co. Ltd., P.O. Box 1, Christchurch. (*Chemist*). A.'47.
- SWEDLUND, Bernard Eskil, M.Sc., Ph.D.(Lond.), Chemistry Department, University of Auckland. (*Lecturer*). A.'47.
- SWEETMAN, Brian Jack, M.Sc., Ph.D.(Otago), Division of Protein Chemistry, C.S.R.I.O., 343 Royal Parade, Parkville, N.2, Victoria, Australia. (*Research Officer*). A.'61.

- SWINDALE, Leslie Denis, M.Sc., Ph.D. (Wisconsin), Dept. of Soil Science, University of Hawaii. Honolulu 14, Hawaii, (*Professor of Soil Science*). A.'51; F.'63.
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T

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- THOMPSON, Frank Burnhope, M.Sc., Head Office, Department of Agriculture, Private Bag, Wellington. (*Superintendent, Agricultural Chemicals*). A.'33.
- THOMPSON, Mrs. Megan, M.Sc., Chemistry Department, University of Auckland, P.O. Box 2175, Auckland. (*Temporarily overseas*). A.'61.
- THOMPSON, Robert Leslie, M.Sc., Mobil Oil New Zealand Ltd., P.O. Box 2497, Wellington. (*Manager, Special Products*). A.'50.
- THOMSON, Alexander Lewis, M.Sc., Ph.D., Polymers (N.Z.) Ltd., Saleyards Road, Otahuhu, Auckland. (*Factory Manager*). A.'53; F.'63.
- THOMSON, Cullen William, B.Sc., Fletcher Industries Ltd., P.O. Box 973, Dunedin. (*Works Chemist*). A.'60.
- THOMSON, Mrs. Eileen Mera, B.A., B.Sc., B.H.Sc., 163 Carroll Street, Dunedin, C.2. A.'39.
- THOMSON, Helen Marion Sheila, M.H.Sc., Ph.D.(Leeds), 32 Wai iti Terrace, Christchurch. (*Retired; formerly Senior Lecturer in Textile Chemistry, University of Otago*). A.'39.
- THOMSON, Thomas Alexander, B.Sc., 163 Carroll Street, Dunedin, C.2. (*Director, Thomson's Ltd., Bond Street, Dunedin*). A.'39.
- THORP, John Martin, B.Sc.,(Hons.), Ph.D.(Lond.), Chemistry Department, Auckland University, P.O. Box 2175, Auckland. (*Senior Lecturer, Physical Chemistry*). A.'60.
- TILLER, Leslie Walter, B.Sc., Head Office, D.S.I.R., Box 8018, Wellington. (*Assistant Secretary*). A.'45.
- TILLY, Clifton Roberts, B.A., B.Sc., Huntly College, Huntly. (*Head of Science Department*). A.'54.

- TINGEY, John Murray Campbell, B.Sc., 20 Cavenish Square, Wellington, E.5. (*Technical Director, Messrs. R. & E. Tingeys Ltd., P.O. Box 545, Wellington; Oil and Colour Merchants*). A.'44.
- TODD, Harry Jackson, B.Sc.(Lond.), Chemistry Division, D.S.I.R., P.B., Petone. (*Principal Scientific Officer, Spectrography*). A.'51.
- TOPSOM, Ronald David, M.Sc., Ph.D.(London), Chemistry Department, University of Canterbury, Private Bag, Christchurch. (*Temporarily Overseas*). A.'59.
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- TURNER, Alan Arthur, B.Sc., Shell Oil (N.Z.) Ltd., P.O. Box 2095, Christchurch (*Sales Technical Adviser*). A.'61.
- TURNER, Mrs. Iivi-Reet, M.Sc., 303 Selwyn Street, Christchurch 2. A.'61.
- TURNEY, Thomas Albert, M.Sc., Chemistry Department, University of Auckland, P.O. Box 2175, Auckland. (*Senior Lecturer*). A.'57.

U

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V

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- VOSE, Wilfred, B.Sc.(Lond.), A.R.I.C., A.C.C.I., Winstone Ltd., Ceramics Division, P.O. Box 395, Auckland. (*General Manager*). Huntly Brick Co. Ltd., P.O. Box 14, Huntly. (*Managing Director*). A.'48.

W

- WALKER, Ian Kenneth, M.Sc., D.Sc., Chemistry Division, D.S.I.R. Private Bag, Petone. (*Director*). A.'39; F.'62.
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- WALKER, Thomas William, B.Sc.(Hons.), Ph.D., D.Sc.(Lond.), A.R.C.S., D.I.C., Lincoln College P.O., Christchurch. (*Professor of Soil Science*). F.'61.
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- WHILLANS, Douglas, B.Sc., C.O.P. (Bact. and Clin. Path.), Central Laboratory, Public Hospital, Park Road, Auckland, C.3. (*Hospital Technologist*). A.'42; F.'63.
- WHIMP, Peter Olaf, M.Sc., Chemistry Department, Victoria University of Wellington, P.O. Box 196, Wellington. (*Junior Lecturer*). A.'64.
- WHITE, Edwin Percy, M.Sc., D.Sc., Ruakura Agricultural Research Centre, Private Bag, Hamilton. (*Senior Principal Scientific Officer*). A.'38; F.'61.
- WHITE, Graham Richard, M.Sc., Chemistry Department, University of Auckland, P.O. Box 2175, Auckland. (*Lecturer*). A.'61.
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- WICK, William Samuel Henry, B.Sc., Ranfurly Street, Runanga, via Greymouth. (*Head of Science Department, Technical High School, Greymouth*). A.'44.
- WICKEN, Anthony John, B.A.(Hons.) (Cantab.), B.Sc.(Hons.), Ph.D. (Capetown), A.R.I.C., Dept. of Animal Science, Biochemistry Division, Lincoln College, P.O. Christchurch. (*Lecturer*). A.'63.
- WIGGINS (Mrs.), Philippa Marion, M.Sc., Ph.D.(Lond.), Dept. of Physiology, Medical School, P.O. Box 913, Dunedin. (*Research Officer*). A.'59.
- WILKINS, Brian Joseph, M.Sc., c/o Naenae College, Lower Hutt. (*Science Teacher*). A.'59.
- WILKINS, Cuthbert John, M.Sc., Ph.D.(Lond.), D.I.C., Chemistry Department, University of Canterbury, Private Bag, Christchurch. (*Professor*). A.'44.
- WILKINSON, Leslie, M.Sc., Chemistry Division, D.S.I.R., P.O. Box 2112, Christchurch. (*Principal Scientific Officer*). A.'49; F.'62.
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- WILLIAMS, Mrs. Mary Patricia, B.Sc., C.O.P.H.L.P., 56 Howard Road, Point Howard, Wellington. A.'58.
- WILLIAMS, Peter Prior, M.Sc., Ph.D.(Cantab.), A.Inst.P., Chemistry Division, D.S.I.R., Private Bag, Petone. (*Principal Scientific Officer*). A.'56.
- WILLIAMS, William, c/o R. & W. Hellaby Ltd., Quay Street, Auckland. (*Chief Chemist*). A.'33; F.'34.
- WILLIAMS, Xandra Kathleen, B.Sc.(Hons.)(Lond.), A.R.C.S., Chemistry Dept., University of Otago, P.O. Box 56, Dunedin. (*Scientific Officer, N.Z. Geological Survey*). A.'63.
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- WILLIAMSON, Hudson Miles, B.Sc., Ministry of Works Laboratory, Lower Hutt. (*Chemist, Highway Materials*). A.'45.
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- WILSON, Alaric Neil, B.A., B.Sc., Dip.Ed., New Plymouth Boys' High School, New Plymouth. (*Head of Science Dept.*). A.'64.
- WILSON, Alexander Thomas, M.Sc., Ph.D.(California), Chemistry Department, Victoria University of Wellington, P.O. Box 196, Wellington. (*Associate Professor*). A.'59.
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- WILSON, William Joseph, M.Sc., Research Laboratories, Fraser Companies Ltd., Atholville, New Brunswick, Canada. (*Chemist*). A.'49.
- WONG, Edmon, M.Sc., Ph.D., Plant Chemistry Division, D.S.I.R., Private Bag, Palmerston North. (*Senior Scientific Officer*). A.'56.

- WONG, Leslie Chiu-Kai, M.Sc., 120(a) Gordon Road Mosgiel. (*Research Officer, N.Z.M.R.C.*). A.'57.
- WOOD, Herbert John, B.Sc., F.R.I.C., Chemistry Division, D.S.I.R., Private Bag, Petone. (*Principal Scientific Officer, Food*). A.'33.
- WOOD, John Milton, M. Sc., A.M.I.Chem.E., The Lactose Co. of N.Z. Ltd., Kaponga, R.D., Taranaki. (*Industrial Chemist*). A.'51.
- WOODS, Miss Nesta Madeline, M.Sc., 23 Orbell Street, Dalmore, Dunedin. (*Retired*). A.'39.
- WOODHAMS, David John, M.Sc., Dairy Research Institute, P.O. Box 1204, Palmerston North. (*Chemical Engineer*). A.'64.
- WOODWARD, Ronald Newall, A.M.C.T., F.R.I.C., Institute of Nuclear Sciences, Private Bag, Lower Hutt. (*Scientific Officer*). F.'53.
- WOOFF, Alan Herbert, B.Sc., Dip.Ind.Chem., Christchurch Boys' High School, Straven Road, Christchurch. (*Science Master*). A.'61.
- WOOLMAN, Harold George, B.Sc.(Manc.), Dip.Ed.(Belfast), A.M.I.Chem.E., A.R.I.C., P.O. Box 19,046, Avondale, Auckland. (*Director, Reckitt & Colman (New Zealand) Ltd.*). A.'40.
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- WRIGHT, Douglas Elliott, M.Sc., Ph.D., Ruakura Agricultural Research Centre, Private Bag, Hamilton. (*Principal Scientific Officer*). A.'59.
- WRIGHT, Evan Wilfrid, M.Sc., Ph.D., Wallaceville Animal Research Centre, Private Bag, Wellington. (*Biochemist*). A.'46.
- WRIGHT, Graeme John, B.Sc.(Hons.), Chemistry Department, University of Canterbury, Private Bag, Christchurch. (*Lecturer*). A.'62.
- WRIGHT, Graham Allen, M.Sc., D.Phil.(Oxon.), Chemistry Department, University of Auckland, P.O. Box 2175, Auckland. (*Lecturer*). A.'62.
- WRIGHT, Nevill Lushanus, F.R.I.C., D.I.C., P.O. Box 191, Takapuna, Auckland. (*Technical Consultant*). F.'45.
- WUNSCH, Donald Frederick Sandys, O.B.E., M.A. (Oxon.), B.Sc.(McGill), M.I.Chem.E., A.I.M.M., 3 Barton Street, New Plymouth. F.'44.
- WYLLIE, Stuart Grant, M.Sc., Chemistry Dept., University of Otago, P.O. Box 56, Dunedin. (*Asst. Lecturer*). A.'63.

Y

- YOUNG, Harry, B.Sc. (Hons.), Chemistry Dept., Otago University. (*Ph.D. Student*). A.'64.
- YOUNG, Jason Carmel, B.Sc., Dip. Incl. Chem., Fletcher Industries Ltd., Mandeville Street, Christchurch. (*Works Chemist, Asbestos Cement Division*). A.'32.

MEMBERS OF R.I.C. ONLY

- BAKER, Alfred Francis, M.Sc., A.R.I.C., Hillmorton High School, Tankerville Road, Christchurch. (*Senior Science Master*).
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- MINSON, D. J., B.Sc., Ph.D., A.R.I.C., Ruakura Animal Research Station, P.B., Hamilton.
- PROCTOR, B. A., M.Sc., A.R.I.C., Plant Chemistry Division, D.S.I.R., P.B., Palmerston North.
- RAESIDE, James Dickie, M.Sc., A.R.I.C., Soil Bureau, D.S.I.R., P.O. Box 733, Dunedin. (*Pedologist*).
- RATCLIFFE, Norman, F.R.I.C., 45 Stanley Avenue, Palmerston North. (*Retired*).
- ROSS, F. M., B.Sc., A.R.I.C., N.Z. Forest Products Ltd., Tokoroa.
- SHEPHEARDSON, Frederick George, B.Sc.(Lond.), D.Sc.(N.U.I.), F.R.I.C., A.R.C.S., Munroe Road, Henderson, R.D.1., Auckland. (*Retired Industrial Research Chemist*).
- STEVENSON, Miss Audrey Elizabeth Gribb, B.Sc.(St. Andrews), F.R.I.C., Ruakura Animal Research Station, Private Bag, Hamilton. (*Scientific Officer*).
- STORY, Leonard Frederick, B.Sc., Ph.D.(Lond.), A.R.I.C., N.Z. Wool Industries Research Institute, George Street, Dunedin. (*Director of Research*).
- TILLER, Mrs. Mavis, B.Sc.(Lond.), A.R.I.C., 7 Thorby Street, Wellington.
- WALKER, Claud Lawless, A.R.I.C., Pinchin Johnson Ltd., Miramar, Wellington. (*Chemist*).
- UDY, Ward Howard, B.Sc.(Lond.), A.R.I.C., 8 Union Street, Hamilton. (*Retired, formerly Laboratory Superintendent, N.Z. Co-op Dairy Co. Ltd.*)

THE REGISTRY

Fellows

(Elected November 27, 1964)

- CAMBIE, Robert Conrad, M.Sc., Ph.D., D.Phil., Chemistry Dept., University of Auckland (Associate Professor).
HAGYARD, Thomas, B.Sc.(Hons.), Ph.D.(Lond.), Department of Chemical Engineering, University of Canterbury (Reader).
WILKINS, Cuthbert John, M.Sc., Ph.D., D.I.C., Chemistry Department, University of Canterbury (Reader).
SEWELL, Owen Keith, M.Sc., Ph.D.(Birm.), Ivon Watkins-Dow Ltd., P.O. Box 144, New Plymouth (Chief Chemist).

Associates

(Elected November 27, 1964)

- ANGUS, Colin William, B.Sc., Unilever, N.Z. Ltd., Petone (Chief Chemist).
BOSWELL, Colin Ralph, M.Sc., Biochemistry Department, Massey University, Palmerston North (Junior Lecturer).
BREACH, Barrie Hayes, B.Sc., Fletcher Industries Ltd., Auckland (Industrial Chemist).
BREWIS, Andrew Strachan, B.E.(Chem.), B.Sc., Challenge Phosphate Co., Otahuhu (Works Manager).
CALDER, Alfred John, M.Sc., Central Institute of Technology, Petone (Senior Chemistry Tutor).
DARBY, Francis Joseph, B.Sc., Ph.D.(Lond.), Chemistry Dept., Victoria University of Wellington (Lecturer in Biochemistry).
DEARSLEY, William Leif Oram, B.Sc., N.Z. Breweries Ltd., Auckland (Brewing Chemist).
DOWNES, Colin James, B.Sc.(Hons.), Chemistry Dept., University of Otago (Ph.D. student).
GAWNE, Kenneth Maxwell, B.Sc., Trimol Laboratories Ltd., Auckland (Works Chemist).
JEUNE, Wendy Margaret, B.Sc., B.P. (N.Z.) Ltd., Petone (Chemist).
JONES, Alan Charles Edgar, B.Sc., Patent Office, Wellington (Chemical Examiner).
KEEN, Alan Robert, B.Sc.(Hons.), Chemistry Dept., University of Otago (Ph.D. Student).
KHOO, Kean Huat, B.Sc.(Hons.), Chemistry Dept., University of Otago (Ph.D. Student).
McDONALD, James Allan, B.Sc., Mt. Albert Grammar School, Auckland (Teacher).
McGRATH, Michael John Alexander, M.Sc., Chemistry Dept., University of Otago (Ph.D. Student).
MACKAY, Angus Murray, B.Sc., B.P. (N.Z.) Ltd., Petone (Industrial Chemist).
MALCOLM, Dennis Barry, B.Sc., Mobil Oil N.Z. Ltd., Lower Hutt (Assistant Chemist).
MOK, Kum Fum, M.Sc., Chemistry Dept., Victoria University of Wellington (Ph.D. Student).
MUNRO, Murray Herbert Gibson, B.Sc.(Hons.), Chemistry Dept., University of Otago (Ph.D. Student).

- MUNRO, Roma Elwyn Catherine, B.Sc.(Hons.) (Edin.), Ruakura Agricultural Research Centre, Hamilton (Chemist).
MURDOCH, John Douglas, M.Sc., Cashmere High School, Christchurch (Head of Chemistry Dept.).
PAWSON, Eric, B.Sc.(Hons.), Ph.D.(Lond.), F.R.I.C., Ruakura Agricultural Research Centre, Hamilton (Scientific Officer).
RUFFELL, Gerald Ernest, B.Sc., Reckitt, Colman, Nugget Ltd., Auckland (Assistant Research Chemist, Trimol Division).
SCHAFFER, Gustav John, M.Sc., Chemistry Division, D.S.I.R., Gracefield (Principal Scientific Officer).
SHARMAN, John Robert, B.Sc., Taieri Diagnostic Station, Mosgiel (Officer-in-Charge, Chemical Section, Diagnostic Unit).
YOUNG, Harry, B.Sc.(Hons.), Chemistry Dept., University of Otago (Ph.D. Student).
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CONFERENCE 1965

The Conference Committee has decided to hold the 1965 conference in Dunedin. Proposed dates are Tuesday, August 24, to Friday, August 27. Sessions will begin on Tuesday evening and cease on Friday evening. Hostel accommodation is being arranged for about 100 persons and hotel and motel accommodation for a further 50 to 60. The suggested time for the council meeting is Monday afternoon and Tuesday morning. Conference Committee consists of Dr J. Rogers (chairman), Dr A. G. Williamson (secretary), Dr J. Dacre (accommodation), Dr A. Campbell and Dr A. M. Kennedy.



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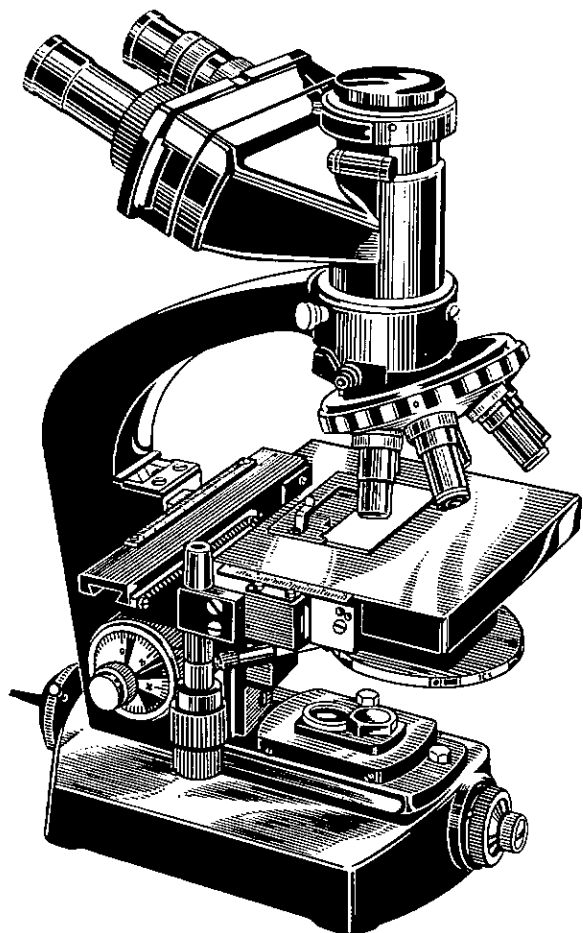
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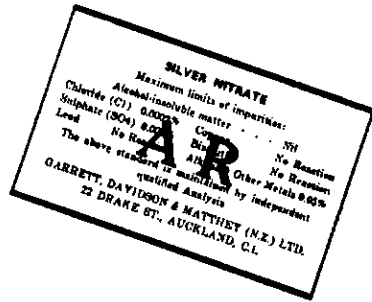
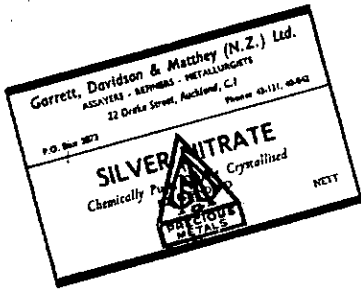
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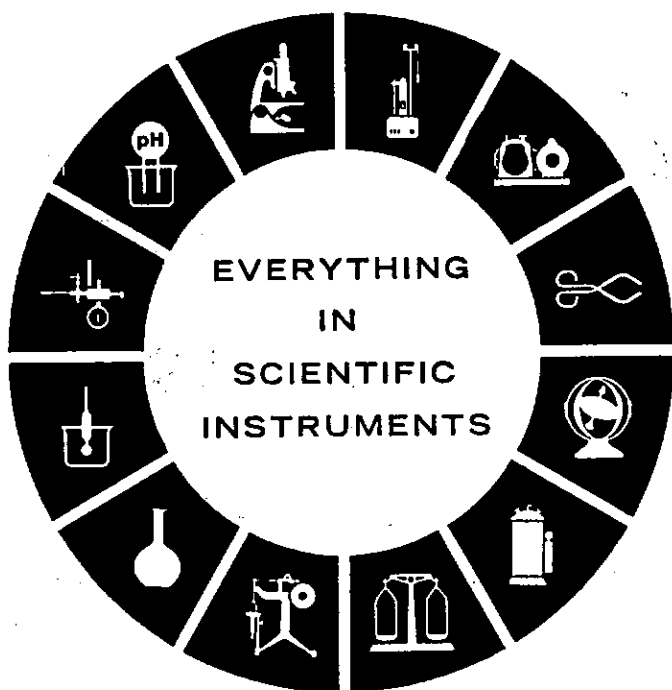
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