

ANNUAL REPORT

The Royal Society of Tasmania 1919

Patron:

HIS MAJESTY THE KING.

President:

HIS EXCELLENCY SIR FRANCIS NEWDEGATE, K.C.M.G.,
GOVERNOR OF TASMANIA.

Vice-Presidents:

E. L. PIESSE, B.Sc., LL.B.
L. RODWAY, C.M.G.

Council:

(Elected March, 1919).

A. H. CLARKE, M.R.C.S., L.R.C.P. (<i>Chairman</i>)	J. L. GLASSON, M.A., D.Sc.
W. H. CLEMES, B.A., B.Sc.	J. A. JOHNSON, M.A.
W. E. L. CROWTHER, D.S.O., M.B. (elected August, 1919)	L. H. LINDON, M.A. (resigned, July, 1919)
L. DECHAINÉUX	L. RODWAY, C.M.G.
T. W. FOWLER	C. C. THOROLD, M.A.

Hon. Treasurer:

L. RODWAY.

Auditor:

R. A. BLACK.

Secretary and Librarian:

CLIVE E. LORD

LIST OF MEMBERS.

Honorary Members:

- David, T. W. Edgeworth, C.M.G., B.A., F.R.S., F.G.S.
Professor of Geology and Physical Geography in the
University of Sydney. The University, Sydney.
- Mawson, Sir Douglas, B.E., D.Sc. Adelaide.
- Shackleton, Sir Ernest H., Kt., C.V.O., F.R.G.S., F.R.A.S.
9 Regent-street, London, S.W., England.
- Spencer, Sir W. Baldwin, K.C.M.G., M.A., F.R.S. Mel-
bourne.

Ordinary, Life, and Corresponding Members:

- "C," Corresponding Member.
"L," Member who has compounded subscriptions for life.
, Member who has contributed a Paper read before the Society.
†, Member who has been elected a member of the Council.

Year of
Election.

- 1916 Ansell, M. M., B.A. The Registrar. The
University, Hobart.
- 1918 L Avery, J. Electrolytic Zinc Co. Risdon.
- 1908 L Baker, Henry D. Co American Consulate,
Hobart.
- 1887 Barclay, David. 143 Hampden Road, Hobart.
- 1890 *Beattie, J. W. 1 Mount Stuart Road, Hobart.
- 1918 Bellamy, Herbert. City Engineer. Town
Hall, Hobart.
- 1901 C Benham, W. B., M.A., D.Sc., F.R.S., F.Z.S.
Professor of Biology, University of
Otago. Dunedin, New Zealand.
- 1903 Bennett, W. H. "Ashby," Ross.
- 1918 Bennett, A. E. "Ashby," Ross.
- 1900 Bennison, Thomas. 29 Cromwell Street,
Hobart.
- 1918 Bennison, E. A. Napoleon Street. Battery
Point.
- 1918 Bisdec, E. O. Lovely Banks, Melton Mow-
bray.
- 1912 *Black, R. A. Chief Clerk, Department of
Agriculture. 50 High Street, Queen-
borough.
- 1909 *Blackman, A. E. Franklin.
- 1918 Bowling, J. "Clovelly," Risdon Road.
- 1892 C Bragg, W. H., M.A., F.R.S. Professor of
Physics in University College, London.

- 1917 Brettingham-Moore, Dr E., M.B., Ch.M.
Macquarie-street, Hobart.
- 1911 Brooks, G. V. Director of Education.
Education Department, Hobart.
- 1907 Brownell, F. L. "Leura," Main Road, Moonah.
- 1918 Bryer, J. R. Taroona.
- 1918 Burbury, Alfred. "Glen Morey," Antill
Ponds.
- 1919 Burbury, Charles. "Inglewood," Andover.
- 1918 Burbury, Frederick. "Holly Park," Parattah.
- 1919 Burbury, Gerald. "Syndal," Ross.
- 1919 Burbury, T. J. "Park Farm," Jericho.
- 1909 †*Butler, W. F. D., B.A., M.Sc., LL.B.
Bishop Street, New Town.
- 1917 Butters, J. H. Chief Engineer and Manager
State Hydro-Electric Department, Ho-
bart.
- 1919 Chapman, A. D. 105 Macquarie Street.
- 1912 Chapman, J. R. Holebrook Place, Hobart.
- 1901 C Chapman, R. W., M.A., B.C.E. Elder Profes-
sor of Mathematics and Mechanics in the
University of Adelaide. The Univer-
sity, Adelaide.
- 1913 Chepmell, C. H. D. Clerk of the Legislative
Council. 23 Swan Street, Hobart.
- 1896 †*Clarke, A. H., M.R.C.S. L.R.C.P. Mac-
quarie Street, Hobart.
- 1918 Clarke, T. W. H. Quorn Hall, Campbell Town
- 1887 †Clemes, Samuel. Principal of Leslie House
School. Clare Street, New Town.
- 1910 †*Clemes, W. H., B.A., B.Sc. Leslie House
School, Argyle Street, New Town.
- 1918 Conlon, A. Agricultural Department, Hobart.
- 1917 Copland, D. B., M. A. Lecturer in History
and Economics, the University, Hobart.
- 1919 Crawford, R. N. Secretary for Education.
Education Department, Hobart.
- 1917 Cullen, Rev. John. Macquarie Street, Hobart.
- 1918 *Cummins, W. H., A.I.A.C. Greenlands
Avenue, Sandy Bay.
- 1919 †*Crowther, W. L., D.S.O., M.B. Macquarie
Street, Hobart.
- 1884 Davies, The Hon. C. E., M.L.C. "Lyndhurst,"
New Town Road, New Town.

Year of Election.		
1919		Davies, H. Warlow, C.E. "Abermere," Mount Stuart.
1908		†Dechaineux, Lucien. Principal of Technical School, Hobart.
1903		Delany, Most Rev. Patrick. Archbishop of Hobart. 99 Barrack Street, Hobart.
1892	C	Dendy, A., D.Sc., F.R.S., F.L.S. Professor of Zoology in the University of London (King's College). "Vale Lodge," Hamp- stead, London, N.W.
1916		Downie, W. A. Headmaster, Central School, Hobart.
1919		Elliott, E. A., M.B. Macquarie Street.
1918		Ellis, F. Education Department, Hobart.
1919		Erwin, H. D., B.A. Christ's College, Ho- bart.
1918		Evans, L. Acting Director of Agriculture, Hobart.
1902		Finlay, W. A. 11 Secheron Road, Hobart.
1918		Finlay, G. W. "Baskerville," Campbell Town.
1918		Fletcher, C. E. Education Department, Ho- bart.
1909		†*Flynn, T. Thomson, B.Sc. Ralston Professor of Biology in the University of Tas- mania.
1890	L	Foster, H. D. 137 Hampden Road, Hobart.
1905	L	Foster, J. D. "Fairfield," Epping.
1913		†Fowler, T. W., M.Inst.C.E. Clare Street, New Town.
1918		Gatenby, R. L. Campbell Town.
1908		†*Giblin, Major L. F., D.S.O., B.A. Govern- ment Statistician, Davey Street.
1918		Gillett, Henry. "Wetmore," Ross.
1913		†*Glasson, J. L., M.A., D.Sc. Lecturer in Physics in the University of Tasmania. The University, Hobart.
1907		Gould, Robert. Longford.
1918		Gould, J. W. Tramway Department, Hobart.
1905	L	Grant, C. W. "High Peak," Huon Road.
1913		*Hardy, G. H. Hurlstone. C/o Australian Mus- cum, Sydney.
1918		Harrap, Lieut-Colonel G. E. Launceston.
1898		Harrison, M. W. Glenorchy.

- 1893 Harvey, W. A., M.B. 154 Macquarie Street, Hobart.
- 1902 C Haswell, William, M.A., D.Sc., F.R.S., F.L.S. Challis Professor of Biology in the University of Sydney. The University, Sydney.
- 1913 Hawson, Edward. "Remine," 174 Argyle Street, Hobart.
- 1919 Hay, Rt. Rev R. S. Bishop of Tasmania. Bishops court, Hobart.
- 1919 Headlam, Robert. "Glen Esk," Conara.
- 1915 Hickman, V. V., B.Sc. Garden Road, Albert Park, Moonah.
- 1919 Higgins, Dr. P. Campbell Town.
- 1913 Hills, Loftus, M.Sc. Government Geologist. Launceston.
- 1914 Hitchcock, W. E. Moina.
- 1908 Hogg, G. H., M.D., C.M. 37 Brisbane Street, Launceston.
- 1909 *Hutchison, H. R. 1 Barrack Street, Hobart.
- 1913 Ife, G. W. R., LL.B. Summerhill Road, Hobart.
- 1919 Irby, J. R. Conservator of Forests. Lands Department, Hobart.
- 1898 *Ireland, E. W. J., M.B., C.M. Launceston General Hospital.
- 1918 Innes, H. S. 71 Davey Street, Hobart.
- 1919 Jackson, Geo. A. Tregear's Building, Collins Street.
- 1906 *Johnson, J. A., M.A. Principal of the Philip Smith Training College, Hobart. "Wharepuke," Argyle Street, New Town.
- 1911 Keene, E. H. D. Tantallon, Tarleton (A.I.F.
- 1910 Kermode, R. C. "Mona Vale," Ross.
- 1918 Kermode, Lewis Q., B.A. Birkdale, Lancashire, England.
- 1905 Kerr, George. 165 Campbell Street, Hobart.
- 1913 Knight, J. C. E. "Windermere," Claremont.
- 1918 Knight, C. E. L., B.Sc. Claremont.
- 1919 Knight, H. W. National Mutual Buildings, Macquarie Street.
- 1919 Leahy, F. T. Electrolytic Zinc Company, Risdon.
- 1887 †Lewis, Sir Neil Elliott, K.C.M.G., M.A., B.C.L., LL.B., M.H.A. "Werndee," Augusta Road, New Town.

Year of Election.		
1912	†	Lindon, L. H., M.A. "The Lodge," Park Street, Hobart.
1900		Lines, D. H. E., M.B., Ch.B. Archer Street, New Town.
1875	C	Liversidge, Professor Archibald, M.A., LL.D., A.R.S.M., F.R.S., F.I.C., F.C.S., F.G.S., F.R.G.S. "Fieldhead," Coombe Warren, Kingston, Surrey, England.
1913	†*	Lord, Clive E. Curator and Secretary of the Tasmanian Museum, Hobart. "Cliveden," Mt. Nelson Road, Sandy Bay.
1912		McAlister, Miss M. K. Rosetta.
1893	*	McAulay, Alexander, M.A. Professor of Mathematics in the University of Tasmania. The University, Hobart.
1902	C	Maiden, J. H., I.S.O., F.R.S., F.L.S. Director of Botanic Gardens, Sydney, and Government Botanist of New South Wales. Botanic Gardens, Sydney.
1918		Mansell, A. E. Melton Mowbray.
1918		Martin, Colonel W., V.D. Launceston.
1919		Masters, W. E., B.A., LL.B. Box 22, G.P.O., Hobart.
1913		Mather, J. F. 1 Mount Stuart Road, Hobart.
1917		Mackay, J. H. Professor of Engineering. The University of Tasmania, Hobart.
1919		Mackay, A. D., B.Sc., M.M.E. 4 Fawkner Street, South Yarra, Victoria.
1895	*	May, W. L. "Forest Hill," Sandford.
1909		Millen, J. D. Mount Bischoff Mine, Waratah.
1907		Miller, Lindsay S., M.B., Ch.B. 156 Macquarie Street, Hobart.
1894	L	Mitchell, J. G. "Ellesmera," Jericho.
1913		Mitchell, P. H., B.A. Headmaster of the State High School, Hobart. 2 Ashfield Street, Queenborough.
1911		Montgomery, R. B. Davey Street, New Town.
1918		Murdoch, Thomas. Montpelier Road, Hobart.
1882		Nicholas, G. C. "Cawcod," Ouse.
1918		Nicholls, Sir Herbert, Kt. Chief Justice of Tasmania. Pillinger Street, Queenborough.
1910		Nicholls, H. Minchin. Government Microbiologist, Department of Agriculture, Macquarie Street, Hobart.

- 1919 Nicolson, Norman. "Streanshalh," Campbell
 Town.
- 1917 Oldham, N., J.P. New Town.
- 1919 Oldmeadow, H. E. R. "Lowes Park," Wood-
 bury.
- 1908 Parsons, Miss S. R. 190 Davey Street, Hobart.
- 1902 †*Piesse, E. L., B.Sc., LL.B. 39 Broadway,
 Camberwell, Victoria.
- 1910 Pillinger, James. 4 Fitzroy Crescent, Hobart.
- 1918 Pitt, Frank C. K. "Glen Dhu," The Ouse.
- 1919 Pitt, C. F. Campbell Town.
- 1908 Pratt, A. W. Courtney. "Athon," Mt.
 Stuart Road, Hobart.
- 1917 Raamsdonk, I. N. Lecturer in Modern Lan-
 guages, the University, Hobart.
- 1919 Riggall, Captain A. Hortin, D.S.O. Tun-
 bridge.
- 1919 Robertson, J. Moore. Sandy Bay.
- 1918 Robertson, T. W. Box 93, G.P.O., Hobart.
- 1919 Rowland, E. O. Secretary Public Service
 Board, Hobart.
- 1884 †*Rodway, Leonard, C.M.G. Government
 Botanist of Tasmania. Macquarie
 Street, Hobart.
- 1913 Ross, Hector. Sheriff of Tasmania. Elphin-
 stone Road, Hobart.
- 1915 Ross, J. Head Teacher, New Town School,
 New Town (A.I.F.).
- 1896 Scott, R. G., M.B., Ch.M. 172 Macquarie
 Street, Hobart.
- 1919 Sharland, A. Campbell Town.
- 1892 C *Shirley, John, D.Sc. Principal, Teachers'
 Training College, Queensland. "Coot-
 tha," Bowen Hills, Brisbane.
- 1901 Shoobridge, Canon G. W. 3 Molle Street,
 Hobart.
- 1917 Slaytor, C. H., F.I.C. Haxey, Doncaster,
 England.
- 1919 Smith, G. O. Town Hall, Hobart.
- 1919 Smith, G. O., Mrs.
- 1901 C Smith, R. Greig, D.Sc. Linnean Hall, Eli-
 zabeth Bay, Sydney.
- 1919 Snowden, Colonel R. E. "Minallo," West
 Hobart.
- 1896 L *Spratt, Gregory, M.D., C.M. Macquarie
 Street, Hobart.

Year of Election.		
1919		Stevenson, Miss F. "Leith House," New Town.
1896	L	Sticht, Robert, B.Sc., E.M. Mount Lyell Mining and Railway Co. Ltd., Queen Street, Melbourne.
1913		Susman, Maurice. 88 Murray Street. Hobart.
1907		Tarleton, J. W. 108 High Street, Queenborough.
1887		*Taylor, A. J. Librarian of the Tasmanian Public Library. 28 D Arcy Street, Hobart.
1918		Taylor, Walter E. Elboden Street, Hobart.
1892	C	*Thomsen, G. M., F.L.S. Dunedin, New Zealand.
1918		Thorold, C. C., M.A. Hutchins School, Hobart.
1918		Walch, Percy. King Street, Sandy Bay.
1901	C	Wall, Arnold, M.A. Professor of English Language and Literature in Canterbury College. Christchurch, New Zealand.
1913		Wardman, John. Superintendent of the Botanical Gardens. Botanical Gardens, Hobart.
1918		Waterhouse, G. W., B.A., LL.M. Cantab. Messrs. Ritchie and Parker, Alfred Green and Co., Launceston.
1918		Watt, W. The Observatory, Hobart.
1918		Weber, A. F. Lands Department, Hobart.
1919		Williams, T. H. Electrolytic Zinc Company, Risdon.
1901		Wise, H. J. Lambert Avenue, Sandy Bay.

Members are asked to inform the Secretary of any change of address or other necessary correction.

ANNUAL REPORT.

In accordance with Rule 39, the Council present a report of the Proceedings of the Society for 1919.

The Council and Officers.

The Annual General Meeting was held on the 10th March. Eleven nominations being received for membership of the Council, an election was held, with the result that the following nine members were elected as the Council for 1919:—Dr. A. H. Clarke, Dr. J. L. Glasson, Messrs. W. H. Clemes, L. Dechaineux, T. W. Fowler, J. A. Johnson, L. H. Lindon, L. Rodway, C. C. Thorold.

The Council at the first meeting elected the following officers:—Dr. Clarke (Chairman), Mr. L. Rodway (Hon. Treasurer), Mr. Clive Lord (Secretary and Librarian).

The Council elected Dr. Clarke, Messrs. Clemes, Dechaineux, Johnson, Lindon, and Rodway, to be trustees of the Tasmanian Museum and Botanical Gardens.

During the year Mr. Lindon resigned, and Dr. W. L. Crowther was elected in his place.

Eleven Council meetings were held during the year. the attendance being as follows:—Mr. Rodway 11, Mr. Johnson 10, Mr. Fowler 9, Mr. Clemes 8, Mr. Thorold 8, Dr. Clarke 7, Dr. Glasson 6, Mr. Dechaineux 6, Mr. Lindon (resigned July) 6, Dr. Crowther (elected August) 3

Meetings.

Eight ordinary meetings and one special meeting were held during the year. The outbreak of pneumonic influenza in September and October interfered with the programme of lectures, but notwithstanding this the session, generally speaking, was a successful one. Many instructive papers were read, and the meetings were well attended.

Membership.

It is satisfactory to record a substantial increase in the membership of the Society. The roll at the end of the year showed that there were four honorary members, eleven corresponding members, seven life members, and one hundred and forty-two ordinary members. A number of the new subscriptions do not become due until next year, but when they are received they will add very materially to the financial strength of the Society.

Library.

The Library of the Society now contains over 13,000 volumes, in addition to a large number of pamphlets and other documents. Many of these are of great value, and the upkeep of the Library is becoming an increasing tax on the Society's resources. An extension of the present Library accommodation is becoming a necessity. Owing to the risks of transportation no books have been purchased for several years past with the money derived from the Morten Allport Memorial Fund, but next year it is proposed to acquire a number of volumes with the income obtained from this fund.

Education Section.

Chairman: L. Dechaineux.

Hon. Sec.: W. H. Clemes, B.A., B.Sc.

Owing to the Influenza Epidemic only four meetings of this Section were held. The following papers were read and discussed:—

"The Training of the Emotions and the Will at the Primary Stage," by L. Dechaineux.

"The Training of the Emotions," by J. A. Johnson, M.A.

"The Training of the Will," by S. Clemes.

Obituary.

It is with regret that the Society has to record the death of the following members during the past year:—

H. L. Roberts, of "Beaumaris," Hobart. (Elected a member in 1864.)

W. H. Twelvetrees, of Launceston. Government Geologist of Tasmania. (Elected a member in 1896.)

G. E. Brettingham-Moore, of Hobart. (Elected a member in 1900.)

Donald McKinnon, of "Dalness," Evandale. (Elected a member in 1918.)

John Taylor, of "Winton," Campbell Town. (Elected a member in 1918.)

W. H. TWELVETREES, F.G.S.

W. H. Twelvetrees was born in Bedfordshire, England, in 1848. In 1871 he was employed at the Viskrensenky copper mines and smelting works in Eastern Russia, and remained there for nine years. He was stationed at the

Lidjessie silver mines in Asia Minor from 1882 until 1884. He then became general manager of these mines, and remained in the district until 1891, when he came to Tasmania. He soon began to take an interest in public affairs, and was secretary of the first exhibition at Launceston, which was held in the Albert-hall in 1892. In 1899 he was appointed Government Geologist and Chief Inspector of Mines. He carried out the duties of the combined officers until 1914, when the inspection of mines was made a separate branch of the Mines Department. Since 1914 he held the position of Government Geologist and Director of the Geological Survey of Tasmania, and continued his work practically to the time of his death.

During his regime, the work in his branch of the Department grew in volume and importance. The Geological Gallery, at Launceston, established in connection with the Geological Survey, will always stand as a memorial to his enthusiastic work.

His connection with various scientific societies is well known, and his many valuable contributions in the shape of scientific writings will ever serve to remind geologists and others of his work.

Owing to his death the State has lost a valuable servant, this Society a prominent member, and many of the remaining members have lost a personal friend. Mr. Twelvetees's kindly nature led him to be honoured and respected by all classes of people, and his loss will be felt far beyond the realm of the scientific world.

ROYAL SOCIETY OF TASMANIA

RECEIPTS AND EXPENDITURE, 1919. GENERAL ACCOUNT.

	£	s.	d.		£	s.	d.
Balance brought forward	20	5	4	Salaries			33 5 0
Subscriptions:—				Papers and Proceedings:—			
Current, 83 at £1/1-	£87	3	0	1918 (Part)	£61	16	0
Arrears, 1 at £1/1-	1	1	0	1919 (Part)	105	13	4
Advance, 1 at £1/1-	1	1	0	Expenses of Meetings			167 9 4
Government Grant in aid of Printing				Library			26 5 2
Miscellaneous...	89	5	0	Light and Fuel			19 10 11
	100	0	0	Lantern and Operator			1 14 0
	19	4	9	Postages and Petty Cash			2 0 0
	£228	15	1	Miscellaneous...			8 5 10
Dr. Balance, 1919	50	18	5	Bank Charges, etc.			18 9 0
	£279	13	6				2 14 3
	<u>£279 13 6</u>						<u>£279 13 6</u>

MORTON ALLPORT MEMORIAL FUND ACCOUNT,* 1919.

	£	s.	d.		£	s.	d.
Balance brought forward 1st Jan., 1919	39	19	3	Balance to 1920			49 14 3
Interest received from Perpetual Trustee Co.—							
5 per cent. on £200 War Loan	£10	0	0				
Less Trustee Co. Commission	0	5	0				
	9	15	0				
	<u>£49 14 3</u>						<u>£49 14 3</u>

* £200 was raised by Public Subscription in 1878 to establish a Memorial to the late Morton Allport. The Fund was invested in the name of the Perpetual Trustees, Executors, and Agency Co. of Tasmania Ltd., and the income is used for the purchase of Books for the Library of the Society.

Audited and found correct,
R. A. BLACK, Hon. Auditor.
 15th Jan., 1920.

L. RODWAY, Hon. Treasurer.
CLIVE LORD, Secretary.
 January 7th, 1920.