

## EDINBURGH MATHEMATICAL SOCIETY

---

### LIST OF MEMBERS—January 1936.

---

#### *Honorary Members.*

- H. F. BAKER, M.A., LL.D., F.R.S., Lowndean Professor of Astronomy and Geometry in the University of Cambridge, 3 Storey's Way, Cambridge
- G. D. BIRKHOFF, Ph.D., Professor of Mathematics, Harvard University, Cambridge, Mass., U.S.A.
- T. LEVI-CIVITA, Professor of Mathematics in the University of Rome, Via Sardegna 50, Rome (25), Italy
- R. FRANKLIN MUIRHEAD, B.A., D.Sc., 8 Park Avenue, Glasgow, C.3
- H. W. RICHMOND, M.A., LL.D., F.R.S., King's College, Cambridge
- D'ARCY W. THOMPSON, C.B., D.Sc., D.Litt., F.R.S., Professor of Natural History in the University of St Andrews, 44 South Street, St Andrews

#### *Ordinary Members.*

- E. P. ADAMS, Ph.D., Professor of Physics, Princeton University, New Jersey, U.S.A.
- JOHN R. AIREY, M.A., D.Sc., Llwynon, Newtown, Montgomeryshire
- A. C. AITKEN, M.A., D.Sc., F.R.S.E., Mathematical Institute, The University, Edinburgh
- V. RAMASWAMI AIYAR, M.A., Retired Deputy Collector, Chittoor, S. India
- 5 JOHN ALISON, M.A., LL.D., F.R.S.E., 126 Craiglea Drive, Edinburgh, 10
- ALBERT ANDERSON, M.A., B.Sc., 272 Croftpark Avenue, Glasgow, S.4
- JAMES ANDERSON, M.A., Ph.D., 48 Greendykes Road, Dundee
- WILLIAM ARTHUR, M.A., F.R.S.E., Lecturer in Mathematics in Glasgow University, 148 Carmunnock Road, Cathcart, Glasgow
- BEVAN B. BAKER, M.A., D.Sc., F.R.S.E., Professor of Mathematics in the University of London, Pentlands, Englefield Green, Surrey
- 10 JOHN BALLANTINE, M.A., Redding School, Falkirk
- W. BARRETT, M.A., H.M. Inspector of Factories, Fuglestemmen, Layters Way, Gerrards Cross, Bucks
- F. BATH, B.Sc., Ph.D., F.R.S.E., University College, Dundee (*Co-Editor of Proceedings*)
- Sir J. C. BEATTIE, D.Sc., LL.D. F.R.S.E., Vice-Chancellor and Principal of the University of Cape Town, S. Africa
- ARCHIBALD BELL, B.Sc., Longmuirhead, Lenzie
- 15 ROBT. J. T. BELL, M.A., D.Sc., LL.D., F.R.S.E., Professor of Mathematics, University of Otago, Dunedin, New Zealand.
- PETER BENNETT, 14 Cecil Street, Hillhead, Glasgow
- R. B. BENNETT, M.A., B.Sc., 2 Chesser Avenue, Edinburgh, 11
- W. E. H. BERWICK, M.A., Professor of Mathematics, University College of North Wales; Ceinwen, Upper Bangor, North Wales
- C. K. BIRD, M.A., Assistant Goods Manager, L.N.E.R., King's Cross Station, London, N. 1
- 20 F. P. BISACRE, M.A., c/o Messrs Blackie & Co., 17 Stanhope Street, Glasgow
- S. B. BISHARA, B.Sc., Royal Engineering School, Guiza, Egypt
- T. P. BLACK, M.A., B.Sc., Ph.D., F.R.S.E., Headmaster, Bellevue School, Edinburgh

- A. W. BOLDYREFF, B.S., M.S., Ph.D., Assistant Professor of Mathematics, University of Arizona, Tusson, Arizona, U.S.A.
- EDWARD BLADES, M.A., B.Sc., 1 Lockharton Crescent, Edinburgh, 11
- 25 F. BRADSHAW, M.A., D.Sc., The Library, Armstrong College, Newcastle-upon-Tyne
- RAYMOND W. BRINK, Ph.D., Professor of Mathematics, University of Minnesota, Minneapolis, Minnesota, U.S.A.
- S. BRODETSKY, Ph.D., Professor of Applied Mathematics, The University, Leeds
- A. BROWN, M.A., B.Sc., F.R.S.E., Professor of Applied Mathematics, University of Cape Town, S. Africa
- F. G. W. BROWN, M.Sc., F.C.P., 25 Welwood Road, Goodmayes, Essex
- 30 GEORGE BROWN, M.A., 23 Gates Road, Lochwinnoch, Renfrewshire
- JOHN T. BROWN, M.A. B.Sc., High School, North Berwick
- L. M. BROWN, M.Sc., Royal Technical College, Glasgow, C.1 (*Editor of Mathematical Notes*)
- T. A. BROWN, M.A., B.Sc. F.R.S.E., Professor of Mathematics, University College, Exeter
- WALTER BROWN, M.A., B.Sc., F.R.S.E., Professor of Mathematics, University of Hong-Kong, China
- 35 THOMAS BRYDONE, M.A., B.Sc., The High School, West Calder
- A. F. BUCHAN, B.Sc., James Gillespie's High School for Girls, Edinburgh
- J. BUCHANAN, M.A., Perse School, Cambridge
- J. W. BUTTERS, M.A., B.Sc., F.R.S.E., 116 Comiston Drive, Edinburgh, 10
- MISS NORA CALDERWOOD, M.A., B.Sc., The University, Edgbaston, Birmingham
- 40 JOHN CAMPBELL, B.Sc., North Kelvinside Secondary School, Oban Drive, Glasgow, N.W.
- J. T. CAMPBELL, M.A., Ph.D., Nelson College, Nelson, New Zealand.
- GEORGE A. CARSE, M.A., D.Sc., F.R.S.E., Reader in Natural Philosophy, The University, Edinburgh, 1
- H. S. CARSLAW, Sc.D., LL.D., F.R.S.E., Emeritus Professor of Mathematics, The University, Sydney, N.S.W.
- J. CASSELS, M.A., B.Sc., The Academy, Ayr
- 45 G. E. CHAPPELL, M.A., County School, Bridgend, Glamorgan
- C. B. CHILDS, Ph.D., Lecturer in Natural Philosophy, The University, Edinburgh, 1
- N. L. CLAPTON, M.A., 47 Cranworth Street, Hillhead, Glasgow, C.2
- H. CLEMENTS, B.A., The Nautical College, Leith
- LEO J. CLOSE, M.A., Inspector of Schools, 1 Hume Street, Dublin
- 50 Rev. J. RIVERSDALE COLTHURST, M.A., Calary Rectory, Kilpedder, Co. Wicklow, Ireland
- PETER COMRIE, M.A., B.Sc., LL.D., F.R.S.E., 19 Craighouse Terrace, Edinburgh, 10
- MISS J. B. CONSTABLE, M.A., B.Sc., 30 Wilton Hill, Hawick
- E. T. COPSON, M.A., D.Sc., F.R.S.E., Professor of Mathematics, University College, Dundee (*Co-Editor of Proceedings*)
- J. COSSAR, M.A., Queen Mary College, Mile End Road, London, E. 1
- 55 JAMES I. CRAIG, M.A., F.R.S.E., Financial Secretary to the Egyptian Government; Turf Club, Cairo, Egypt
- G. E. CRAWFORD, M.A., Barrister-at-Law, 6 Fig Tree Court, Temple, London, E.C. 4
- LAWRENCE CRAWFORD, M.A., D.Sc., F.R.S.E., Professor of Pure Mathematics, University of Cape Town, S. Africa
- L. B. C. CUNNINGHAM, M.A., Ph.D., 38 Buckingham Terrace, Edinburgh, 4
- J. P. DALTON, M.A., D.Sc., Professor of Mathematics, The University of the Witwatersrand, P.O. Box 1176, Johannesburg, South Africa
- 60 CHARLES G. DARWIN, M.A., F.R.S., Tait Professor of Natural Philosophy, The University, Edinburgh, 1
- E. T. DAVIES, Ph.D., M.Sc., King's College, London, W.C. 2
- MISS WINIFRED DEANS, M.A., B.Sc., c/o Messrs Blackie & Son, Ltd., 17 Stanhope Street, Glasgow, C. 4

- JACQUES DEVISME, D. ès Sc., Professeur Agrégé de Mathématiques Spéciales, Lycée de Garçons, Tours, Indre et Loire, France
- S. C. DHAR, D.Sc., Head of the Department of Mathematics, College of Science, Nagpur, India
- 65 A. C. DIXON, M.A., F.R.S., Emeritus Professor of Mathematics, Queen's University, Belfast; Malone, St. Mary's Avenue, Northwood, Middlesex
- JAMES M. DOGGART, B.A., 47 Upper Clapton Road, London, E. 5
- JOHN DOUGALL, M.A., D.Sc., F.R.S.E., 47 Airthrey Avenue, Glasgow, W. 4
- J. B. DOW, M.A., Standard Life Insurance Co., 3 George Street, Edinburgh, 2
- DAVID DRYSDALE, M.A., High School, Arbroath
- 70 ROBERT T. DUNBAR, M.A., B.Sc., Ph.D., Professor of Physics, University College, Cardiff
- GEORGE S. EASTWOOD, B.Sc., F.R.S.E., Craigie Lea, Cowdenbeath, Fife
- W. L. EDGE, M.A., F.R.S.E., Mathematical Institute, 16 Chambers Street, Edinburgh, 1
- JOHN S. EDWARDS, M.A., Fettes College, Edinburgh
- M. D. W. ELPHINSTONE, Southchurch Rectory, Southend-on-Sea, Essex
- 75 I. M. H. ETHERINGTON, B.A., Ph.D., F.R.S.E., Mathematical Institute, 16 Chambers Street, Edinburgh, 1 (*Hon. Secretary*)
- W. L. FERRAR, M.A., F.R.S.E., Fellow and Tutor of Hertford College, Oxford
- JAMES H. FILSHIE, M.A., B.Sc., Hillhead High School, Glasgow
- LESTER R. FORD, M.A., Ph.D., Professor of Mathematics, Rice Institute, Houston, Texas, U.S.A.
- RONALD M. FOSTER, American Telephone and Telegraph Co., 195 Broadway, New York, U.S.A.
- 80 D. FRANKLIN, M.Sc., Mathematical Institute, 16 Chambers Street, Edinburgh, 1
- DAVID KENNEDY-FRASER, M.A., B.Sc., Edge o' the Moor, Milngavie, Dumbartonshire
- PETER FRASER, M.A., Reader in Geometry, The University, Bristol
- G. FRECHEVILLE, M.A., B.Sc., Windmill Hill Farm, Steeple Claydon, Bucks.
- G. L. FREWIN, M.A., Reay House, Old Edinburgh Road, Inverness
- 85 J. D. FULTON, M.A., B.Sc., Edinburgh Ladies' College, Queen Street, Edinburgh, 2
- J. P. GABBATT, M.A., Durford Edge, Petersfield, Hants
- SAMUEL GEDDES, M.A., B.Sc., 183 Loanfoot Avenue, Glasgow, W. 3
- DAVID GIBB, M.A., B.Sc., F.R.S.E., Reader in Mathematics, Mathematical Institute, The University, Edinburgh, 1. (*Hon. Librarian*)
- C. GILBERT, B.Sc., Ph.D., Department of Mathematics, University College, Dundee
- 90 R. P. GILLESPIE, M.A., B.Sc., Ph.D., F.R.S.E., MacBrayne Hall, Park Circus Place, Glasgow, C. 3
- H. T. GONIN, M.Sc., Ph.D., Stellenbosch, Cape Colony, S. Africa
- P. G. GORMLEY, M.A., Ph.D., Carnanban, Claudy, Co. Derry, N. Ireland
- THOS. S. GRAHAM, M.A., Ph.D., 112 Nithsdale Road, Glasgow, S. 1
- Miss MARION C. GRAY, M.A., Ph.D., c/o American Telephone & Telegraph Co., D. & R. Dept., 195 Broadway, New York City, U.S.A.
- 95 A. B. GRIEVE, M.A., D.Sc., H.M.I.S., Elmbank, Strathpeffer, Ross-shire
- HANSRAJ GUPTA, M.A., Professor of Mathematics, Government College, Hoshiarpur, Punjab, India
- P. N. DAS GUPTA, M.Sc., Ph.D., Professor of Mathematics, Science College, Patna, India
- W. G. GUTHRIE, M.A., Ph.D., F.R.S.E., Professor of Mathematics, McCrea-Magee College, Londonderry, N. Ireland
- R. L. GWILT, F.I.A., F.F.A., c/o Scottish Widows' Fund, 9 St Andrew Square, Edinburgh, 2
- 100 C. D. HARDIE, M.A., 98 Ormonde Crescent, Muirend, Glasgow, S. 4
- J. A. HARDIE, M.A., B.Sc., Daniel Stewart's College, Edinburgh, 4
- P. S. HARDIE, M.A., B.Sc., F.R.S.E., 19 Ardmillan Terrace, Edinburgh, 11

- R. P. HARDIE, M.A., 13 Palmerston Road, Edinburgh, 9  
 Miss F. M. HARDING, M.A., Ph.D., Astell, Overton Park Road, Cheltenham, Glos.
- 105 G. H. B. HASKARD, B.Sc., South Australian School of Mines and Industries, North Terrace, Adelaide, S. Australia  
 T. HAYASHI, Professor of Mathematics, Tohoku University, Sendai, Japan  
 H. A. HAYDEN, D.Sc., M.Sc., Head of Mathematics Department, Battersea Polytechnic, London, S.W. 11  
 J. W. HEAD, B.A., Canford School, Wimborne, Dorset  
 ALEX. HENDERSON, M.A., High School, Dunfermline
- 110 J. HENDERSON, M.A., Ph.D., Lecturer in Mathematics, King's College, London, W.C. 2  
 HUGH HIGGINS, M.A., B.Sc., 61 First Avenue, Netherlee, Glasgow, S. 4  
 G. HISLOP, M.A., B.Sc., 20 South Dewar Street, Dunfermline  
 W. A. HONOHAN, M.A., 3 Annesley Bridge Road, Fairview, Dublin  
 A. E. HOPE, M.A., B.Ed., The Academy, Forres, Morayshire
- 115 PIERRE HUMBERT, Professeur à la Faculté des Sciences, Université de Montpellier, France  
 H. HUSSEIN, M.A., Department of Mathematics, The University, Leeds  
 JAMES HYSLOP, M.A., Ph.D., F.R.S.E., Lecturer in Mathematics, The University, Glasgow, W. 2  
 J. M. HYSLOP, 28 Bellwood Street, Langside, Glasgow, S. 1  
 E. L. INCE, M.A., D.Sc., F.R.S.E., Mathematical Institute, 16 Chambers Street, Edinburgh, 1
- 120 ALEX. INGLIS, M.Sc., Ph.D., Bell Baxter School, Cupar, Fife  
 W. M. INVERARITY, M.A., B.Sc., F.R.A.S., 46 Stamperland Gardens, Clarkston, Renfrewshire  
 DAVID JACK, M.A., B.Sc., Ph.D., F.R.S.E., Lecturer in Natural Philosophy, The University, St Andrews  
 GEORGE JOHNSTON, M.A., Speir's School, Beith  
 H. A. JORDAN, Ph.D., Lecturer in Mathematics, Georgetown University, Washington, D.C., U.S.A.
- 125 G. R. KEATING, M.Sc., Glencar, Marlboro' Road, Glenageary, Co. Dublin  
 W. O. KERMACK, M.A., D.Sc., F.R.S.E., Laboratory of the Royal College of Physicians, 2 Forrest Road, Edinburgh, 1  
 J. E. KERRICH, M.Sc., The Department of Mathematics, The University of the Witwatersrand, Johannesburg, South Africa  
 W. F. KIBBLE, M.A., 11 Strathearn Place, Edinburgh, 10  
 C. G. LAMBE, B.A., Ph.D., Lecturer in Mathematics, Royal Military Academy, Woolwich, London, S.E. 18
- 130 ARCHIBALD LANG, M.A., B.Sc., Speybank, 52 Crown Drive, Inverness  
 GEORGE LAWSON, M.A., 49 Merchiston Crescent, Edinburgh, 10  
 W. LEDERMANN, Department of Mathematics, The University, St Andrews  
 CHARLES A. LEE, M.A., Robert Gordon's College, Aberdeen  
 H. C. LEE, B.Sc., Mathematical Institute, 16 Chambers Street, Edinburgh, 1
- 135 ALEXANDER LEIGHTON, M.A., B.Sc., LL.D., O.B.E., 41 Strathern Road, West Ferry, Dundee  
 H. LEVY, M.A., D.Sc., F.R.S.E., Professor of Mathematics, Imperial College of Science and Technology, South Kensington, London, S.W. 7  
 G. J. LIDSTONE, LL.D., F.I.A., F.F.A., F.R.S.E., Hermiston House, Hermiston, Currie, Midlothian  
 N. M. H. LIGHTFOOT, M.A., F.R.S.E., The Heriot Watt College, Edinburgh, 1  
 J. B. LOCKHART, M.A., B.Sc., F.R.S.E., Dundas House, Kinnear Road, Edinburgh, 4 (*Hon. Treasurer*)
- 140 WM. H. LOVE, M.A., Provincial Training Centre, Jordanhill, Glasgow  
 THOMAS A. LUMSDEN, M.A., B.Sc., Lecturer in Mathematics, The University, Edgbaston, Birmingham  
 NEIL McARTHUR, M.A., B.Sc., F.R.S.E., Lecturer in Mathematics in the University of Glasgow, 1 Holyrood Crescent, Glasgow

- Miss EVE MACBEAN, M.A., 20 Warrender Park Crescent, Edinburgh, 10  
 JAMES A. MCBRIDE, B.A., B.Sc., F.R.S.E., Queen's Park School, Glasgow
- 145 J. P. MCCARTHY, M.A., Department of Mathematics, University of Queensland, Brisbane, Australia  
 W. H. M'CREA, M.A., Ph.D., F.R.A.S., Assistant Professor of Mathematics, Imperial College of Science and Technology, South Kensington, London, S.W.7  
 Miss G. E. MACDONALD, M.A., 3 Wendover Crescent, Mount Florida, Glasgow  
 JAMES A. MACDONALD, M.A., B.Sc., F.R.S.E., H.M.I.S., Rothes, Franksroft, Peebles  
 REX MACDONALD, M.A., The Academy, Dollar
- 150 D. C. MCINTOSH, M.A., D.Sc., F.R.S.E., Glenavon, Boat-of-Garten, Invernesshire  
 Miss JEANNIE G. M'INTOSH, M.A., Pine Cottage, Meigle, Perthshire  
 Col. A. G. M'KENDRICK, M.D., F.R.C.P.E., F.R.S.E., Laboratory of the Royal College of Physicians, Forrest Road, Edinburgh, 1  
 JOHN MACKIE, M.A., D.Sc., F.R.S.E., 19 Beresford Avenue, Leith, Edinburgh, 5  
 JOHN M'KINNELL, M.A., B.Sc., Professor of Mathematics, Natal University College, Pietermaritzburg, South Africa
- 155 ANGUS M'LEAN, B.Sc., C.E., Principal, Technical College, Paisley  
 A. J. MACLEAN, M.A., B.A., 39 Mains Loan, Dundee  
 JOHN MACLEAN, M.A., B.Sc., Professor of Mathematics, Wilson College, Bombay  
 D. B. M'QUISTAN, M.A., B.Sc., F.R.S.E., 29 Viewpark Drive, Rutherglen  
 THOMAS M. MACROBERT, M.A., D.Sc., F.R.S.E., Professor of Mathematics, 10 The University, Glasgow, W. 2
- 160 G. C. MCVITTIE, M.A., Ph.D., Department of Applied Mathematics, The University, Liverpool  
 JOHN M'WHAN, M.A., Ph.D., 84 Munro Road, Jordanhill, Glasgow, W. 3  
 J. B. MARSHALL, M.A., 10 Corstorphine Road, Murrayfield, Edinburgh, 12  
 WM. MARSHALL, M.S., Ph.D., Head of Department of Mathematics, Purdue University, Lafayette, Indiana, U.S.A.  
 DAVID B. MEEK, M.A., D.Sc., Director of Industries (Bengal), Calcutta, India
- 165 J. B. MEIKLEJOHN, M.A., Crescent Bank, East Newport, Fife  
 J. M. MEIKLEJOHN, M.A., 12 Wyvis Terrace, Dingwall  
 A. S. MERRILL, Ph.D., The Mathematics Department, The University of Montana, Missoula, Mont., U.S.A.  
 W. H. METZLER, A.B., D.Sc., F.R.S.E., formerly Professor of Mathematics at New York State College for Teachers, 4 Glenwood Street, Albany, N.Y., U.S.A.  
 Rev. GEORGE S. MILL, M.A., B.Sc., Universities' Mission, Kalimpong, Bengal, India
- 170 A. H. MILLER, M.A., B.Sc., Preston Park, Prestonpans, East Lothian  
 JOHN MILLER, M.A., D.Sc., F.R.S.E., formerly Professor of Mathematics, Royal Technical College, Glasgow, 212 Wilton Street, Glasgow, N.W.  
 T. HUGH MILLER, M.A., D.Sc., Lansdowne, Thurlow Road, Nairn  
 WILLIAM MILLER, M.A., Ph.D., D.Sc., Postlagernd, Klosterneuberg, Postamt 3, Austria  
 ARCHIBALD MILNE, M.A., D.Sc., F.R.S.E., Depute Director, Provincial Training College, Edinburgh
- 175 EDWARD L. MILNE, M.A., B.Sc., 22 Church Street, Alloa  
 JOHN MILNE, M.A., Training Centre, Aberdeen  
 W. P. MILNE, M.A., D.Sc., Professor of Mathematics, The University, Leeds  
 JAMES MITCHELL, M.A., B.Sc., F.R.S.E., Islay Lodge, Lochgilphead, Argyll  
 S. C. MITRA, Ph.D., Lecturer in Mathematics, University of Dacca, Dacca, Bengal, India
- 180 RADHA MOHAN, B.A., Sahu Mohalla, Moradabad (U.P.), India  
 Miss A. MILDRED MOORE, M.A., c/o Benson, 45A George Street, Edinburgh, 2

- W. MORE, M.A., Preston Lodge School, Prestonpans  
 Miss ISABELLA M. MORRISON, M.A., B.Sc., 5 Kilmaurs Terrace, Edinburgh, 9  
 J. T. MORRISON, M.A., B.Sc., F.R.S.E., Professor of Physics, Stellenbosch, Cape Colony, S. Africa
- 185 F. D. MURNAGHAN, M.A., Ph.D., Professor of Applied Mathematics, The Johns Hopkins University, Baltimore, Md., U.S.A.  
 M. MURSI-AHMED, B.Sc., Ph.D., Faculty of Science, Egyptian University, Abbasiah-Cairo, Egypt  
 JASON J. NASSAU, C.E., M.Sc., Director of the Warner and Swasey Observatory, Case School of Applied Science, Cleveland, Ohio, U.S.A.  
 C. A. NOBLE, Ph.D., Professor of Mathematics in the University of California, 2224 Piedmont Avenue, Berkeley, California, U.S.A.  
 G. OLIVER, M.A., High School, Dunfermline
- 190 A. OPPENHEIM, B.A., Ph.D., Professor of Mathematics, Raffles College, Singapore  
 JAMES PATON, M.A., B.Sc., The Natural Philosophy Department, The University, Edinburgh, 1  
 JAMES PAUL, M.A., B.Sc., Royal Technical College, Glasgow  
 G. S. PEARSON, M.A., The Academy, Alloa  
 WM. PEDDIE, D.Sc., F.R.S.E., Professor of Natural Philosophy, University College, Dundee
- 195 Miss E. B. PHILIP, M.A., The Mary Acre, Brechin  
 GEORGE PHILIP, M.A., D.Sc., Education Offices, Dingwall  
 WM. EDWARD PHILIP, M.A., H.M.I.S., 3 North Charlotte Street, Edinburgh, 2  
 EDGAR G. PHILLIPS, M.A., M.Sc., Danesbury, Craig-y-don Road, Bangor, N. Wales  
 HENRY T. H. PIAGGIO, M.A., D.Sc., Professor of Mathematics, University College, Nottingham
- 200 D. K. PICKEN, M.A., Master of Ormond College, University of Melbourne, Victoria  
 R. H. PINKERTON, M.A., Emeritus Professor of Mathematics, University College, Cardiff  
 BALTH. VAN DER POL, D.Sc., Parklaan 24, Eindhoven, Holland  
 GORAKH PRASAD, D.Sc., Reader in Mathematics, University of Allahabad, Allahabad, India  
 EDWARD PRESS, Bank of Ethiopia, Addis Ababa, Ethiopia
- 205 A. T. PRICE, M.Sc., Crossways, Lees Road, Wellingdon, Middlesex  
 D. G. RAMSAY, M.A., B.Sc., The Academy, Kirkcudbright  
 THOS. T. RANKIN, C.E., B.Sc., 1 Nether Park, Finchley, London, N. 3  
 S. READ, B.A., F.R.S.E., 2 Oxford Terrace, Edinburgh, 4  
 G. W. RISDON, 11 Victoria Street, London, S.W. 1
- 210 J. C. RITCHIE, M.A., Darroch Intermediate School, Edinburgh  
 R. A. ROBB, M.A., M.Sc., F.R.S.E., Department of Mathematics, The University, Glasgow  
 JAMES ROBERTSON, M.A., B.Sc., The Provincial Training College, Glasgow  
 GEORGE ROBINSON, M.A., B.Sc., 542 Fourteenth Avenue W., Calgary, Alberta, Canada  
 H. F. ROSE, M.A., Brackenbrae, 1 Northfield, Edinburgh, 9
- 215 EDWARD B. ROSS, M.A., F.R.S.E., 41 Liberton Brae, Edinburgh, 9  
 C. H. ROWE, M.A., F.T.C.D., Professor of Mathematics, Trinity College, Dublin  
 A. S. ROY, B.Sc., 22 Shamrock Street, Dundee  
 H. S. RUSE, M.A., D.Sc., F.R.S.E., Mathematical Institute, The University, Edinburgh, 1 (*President and Co-Editor of Proceedings*)  
 ALEX. D. RUSSELL, B.Sc., F.R.S.E., F.R.A.S., 14 Heugh Street, Falkirk
- 220 D. E. RUTHERFORD, M.A., B.Sc., Dr in Wis- en Natuurkunde, F.R.S.E., Department of Mathematics, The University, St Andrews  
 WILLIAM SADDLER, M.A., D.Sc., F.R.S.E., Professor of Mathematics, Canterbury College, Christchurch, New Zealand  
 K. J. SANJANA, Professor of Mathematics, Bhavnagar, Bombay

- ROBERT SCHLAPP, M.A., Ph.D., F.R.S.E., The Natural [Philosophy Department, The University, Edinburgh, 1
- R. J. SCHMIDT, B.Sc., Ph.D., Imperial College of Science and Technology, S. Kensington, London, S.W. 7
- 225 Miss S. SCOTT, M.A., St Leonard's School, St Andrews, Fife
- THOS. SCOTT, M.A., Inch of Ferryton, Clackmannan
- T. J. J. SEE, M.A., Ph.D., Professor of the U.S. Naval Observatory, Mare Island, California, U.S.A.
- C. J. SEELYE, M.Sc., Mathematical Institute, The University, Edinburgh, 1
- J. G. SEMPLE, B.A., Ph.D., Professor of Mathematics, Queen's University, Belfast
- 230 R. N. SEN, M.A., Ph.D., Department of Mathematics, The University, Calcutta, India
- N. G. SHABDE, M.A., Ph.D., Professor of Mathematics, City College, Nagpur City, India
- RODERICK M. SHEARER, M.A., B.Sc., 14 Ross Gardens, Edinburgh, 9
- W. F. SHEPPARD, Sc.D., LL.M., F.R.S.E., Cardrona, Berkhamsted, Herts
- Miss CATHERINE W. M. SHERRIFF, M.A., B.Sc., High Beveridgewell, Dunfermline
- 235 E. F. SIMONDS, B.Sc., Ph.D., Professor of Mathematics, University of Queensland, Brisbane, Australia
- N. B. SLATER, M.A., Caius College, Cambridge
- GLENNY SMEAL, B.Sc., Lecturer in Mathematics, The University, Leeds
- J. H. SMITH, B.Sc., Leith Nautical College, Leith
- J. H. SMITH, M.A., 179 Knightswood Road, Glasgow, W. 3
- 240 R. A. SMITH, M.A., Department of Mathematics, United College, St Andrews
- C. A. STEWART, M.A., B.Sc., The University, Sheffield
- JAMES W. STEWART, B.A., Lyme Cottage, Kelso
- W. J. VAN STOCKUM, M.A., Mathematical Institute, 16 Chambers Street, Edinburgh
- GEORGE D. C. STOKES, M.A., D.Sc., St Ruth's, Maxwelltown, Dumfries
- 245 CHAS. STRACHAN, M.A., Ph.D., 213 Forest Avenue, Aberdeen
- J. A. STRANG, M.A., Professor of Mathematics, Canning College, Lucknow, India
- R. O. STREET, M.A., D.Sc., Professor of Mathematics, Royal Technical College, Glasgow, C. 1 (*Vice-President*)
- DAVID G. TAYLOR, M.A., D.Sc., Lecturer in Mathematics, University College, Cardiff
- WILLIAM TAYLOR, M.A., Moray House Training College, Edinburgh
- 250 J. A. THIRD, M.A., D.Sc., 6 St Vincent Street, Edinburgh, 3
- GEORGE THOMSON, M.A., Avondale, Clyde Street, Carlisle
- JAMES THOMSON, M.A., D.Sc., Robert Gordon's College, Aberdeen
- Sir Wm. THOMSON, M.A., B.Sc., LL.D., F.R.S.E., Dunedin, Glencairn, Simons-town, South Africa
- W. L. THOMSON, M.A., Casita, 65 Traquair Park West, Edinburgh, 12
- 255 G. TIMMS, Ph.D., F.R.S.E., Department of Mathematics, The University, St Andrews
- J. R. TIMONEY, M.A., Belleek, Co. Fermanagh, N. Ireland
- J. A. TODD, Ph.D., Hulme Hall, Victoria Park, Manchester, 14
- H. W. TURNBULL, M.A., F.R.S., Regius Professor of Mathematics in the University of St Andrews, Randa, Hepburn Gardens, St Andrews, Fife
- JOHN TURNER, M.A., B.Sc., 110 Findhorn Place, Edinburgh, 9
- 260 Sheriff GEORGE D. VALENTINE, M.A., Bronville, Kinnoull, Perth
- R. S. VARMA, M.Sc., Christ Church College, Cawnpore, India
- Mrs AGNES M. WADDELL, M.A., B.Sc.,
- A. G. WALKER, M.A., Ph.D., 55 Whippendell Road, Watford, Herts
- ROBERT WALKER, M.A., Provincial Training College Glasgow
- 265 C. E. WALSH, 34 Chelmsford Road, Ranelagh, Dublin
- G. N. WATSON, Sc.D., F.R.S., Professor of Mathematics, The University, Birmingham

- JAMES WATT, LL.D., W.S., F.F.A., F.R.S.E., 7 Blackford Road, Edinburgh, 10  
 C. E. WEATHERBURN, M.A., D.Sc., Professor of Mathematics, The University, Perth,  
 West Australia  
 K. K. WEATHERHEAD, M.A., F.F.A., 28 St Andrew Square, Edinburgh, 2  
 270 J. H. MACLAGAN WEDDERBURN, M.A., D.Sc., F.R.S., Professor of Mathematics  
 in Princeton University; Fine Hall, Princeton, N.J., U.S.A.  
 G. J. WHITROW, B.A., 37 Cedars Road, Clapham, London, S.W. 4  
 E. T. WHITTAKER, Sc.D., LL.D., F.R.S., Professor of Mathematics, Mathe-  
 matical Institute, The University, Edinburgh, 1  
 J. M. WHITTAKER, M.A., D.Sc., F.R.S.E., Professor of Pure Mathematics, The  
 University, Liverpool  
 J. WILLIAMSON, M.A., Ph.D., F.R.S.E., Professor of Mathematics, The Johns Hopkins  
 University, Baltimore, Md., U.S.A.  
 275 R. WILSON, M.A., University College, Swansea, Glam.  
 J. R. WILTON, Sc.D. (Cantab), D.Sc. (Adelaide), Professor of Mathematics in the  
 University of Adelaide, South Australia  
 C. E. WINN, M.A., Egyptian University, Abbasiah, Cairo, Egypt  
 AUREL WINTNER, Ph.D., Associate Professor of Mathematics, The Johns Hopkins  
 University, Baltimore, Maryland, U.S.A.  
 E. MAITLAND WRIGHT, M.A., D.Phil., Professor of Mathematics, The University,  
 Aberdeen  
 280 THOMAS WYLIE, M.A., C.A., 17 Duke Street, Edinburgh, 1  
 A. W. YOUNG, M.A., B.Sc., LL.B., W.S., 4 Admiral Terrace, Edinburgh, 10  
 Miss EDITH YOUNG, M.A., B.Sc., Stronvar, Larbert, Stirlingshire  
 Miss J. M. YOUNGER, M.A., Hutcheson's Girls' Grammar School, Glasgow  
 G. UDNY YULE, C.B.E., F.R.S., M.A., St John's College, Cambridge  
 285 M. ZIA UD DIN, M.A., University College, Swansea, S. Wales