7-11-24

Session 1924-25.

Forty-Third Session

Minutes of Meeting held on Friday, 7th November, 1924, in the University, Edinburgh, Dr Milne, President, in the Chair.

The following papers were read :—

1. A Series for Symmetric Functions of Roots of Equations, by Mr. A. C. Aitken.

2. On the Sexi-Sectional Equation, by Mr Krishnaswami Ayyangar (Communicated by Mr. A. C. Aitken)

3. Notes on James Gray, by Mr. C. Tweedie, (Communicated by the President)

4. On Self-Adjoint Partial Differential Equations of the Second Order, by Mr. E. T. Copson.

Dr. Horsburgh, the Honorary Treasurer, submitted his annual report which showed a balance in the Cash Account, in favour of the Society, of £ 50-3-10. The report was unanimously adopted, and Dr. Horsburgh was thanked for his services to the Society.

Meeting: 7th November 1924

Mr. Gibb submitted the annual report of the Library Committee, which was adopted.

The following office-bearers were elected for the Session 1924-25 :—

President :— Professor J. E. A. Steggall, M.A.

Vice-President :— Professor Bevan B. Baker, M.A., D.Sc., F.R.S.E.

Hon. Secretary :— E. T. Copson B.A. (Oxon), F.R.S.E.

Hon. Treasurer :— E. M. Horsburgh, M.A., D.Sc., Assoc. M. Inst. C.E.

Editors of Proceedings :— T. M. MacRobert, M.A., D.Sc., F.R.S.E.
Professor H. W. Turnbull M.A.

Editor of Mathematical Notes :— Peter Ramsay, M.A., B.Sc., F.R.S.E.

Hon. Librarian :— David Gibb, M.A., B.Sc., F.R.S.E.

Committee :— William Arthur, M.A.
G. S. Eastwood, B. Sc.
J. B. Lockhart, M.A.
Archibald Milne, M.A., D.Sc., F.R.S.E.
William Sadler, M.A.
G. D. C. Stokes, M.A., D. Sc.
Professor E. T. Whittaker, Sc.D, F.R.S.

On the motion of the Chairman, the following were appointed Auditors of the Treasurer's accounts :—
Mr G Robinson and Mr. A. C Aitken.

The following were nominated for ordinary membership of the Society :——

Mr. D. E. Collier, M.A., B.Sc., M.C.
George Watson's College, Edinburgh.
Mr. W.L. Ferrar, M.A. (Oxon.), Lecturer in Maths.,
Mathematical Institute, The University, Edinburgh.
Mr. J.M. Meiklejohn, M.A.,
Mathematical Institute, The University, Edinburgh.
Mr. H.H. Shepley, M.A.,
Blackie House, Edinburgh.
Mr. J. Travers, B.A., B.Sc.,
163 Pinner Road, Harrow, Middlesex

On the motion of the Chairman, Professor and
Mrs. Whittaker were thanked for their hospitality
to members of the Society at the Edinburgh
meetings of the Society during the past session.

George A. Gibson

5. 12. 24

Minutes of Meeting held on Friday, December 5, 1924, in the Mathematical Classroom of the University of Glasgow, Professor Gibson, in the Chair.

The following papers were read :—

1. On the Expression for the Surface Density of a Sphere in terms of Spherical Harmonics,

by Dr. T. M. MacRobert

2. On the Riemann P Equation with Integral Exponent Differences, by Mr W. L. Ferrar.

3. Elementary Notes on Coordinates, Conics and Conjugate Points, by Dr. John Dougall.

Messrs. D. E. Collier, W. L. Ferrar, J. M. Meiklejohn, H. H. Shepley and J. Travers were elected ordinary members of the Society. The following were nominated for ordinary membership :—

Mr. R. B. Bennett M.A., B.Sc., 28 Comely Bank Avenue, Edinʳ; Mr J. Henderson M.A., Lecturer in Mathematics at King's College, London; Mr W. G. M'Lintock M.A., B.Sc., North Kelvinside H. G. School, Glasgow; Mr J. M. Whittaker M.A., ~~St John's~~ Trinity College, Cambridge.

On the motion of the Hon. Treasurer (Dr Horsburgh), Prof. and Mrs. Gibson were thanked for their hospitality to members of the Society

J. C. A. Steggall

Meeting: 5th December 1924

4

6.1.25.

Minutes of Meeting held on Friday, Jan. 16., 1925; in the University, Edinburgh, Prof. Steggall, President, in the Chair.

The following papers were read :—

1. On the general invariant theory of two quadratics in n variables. By Mr J. Williamson and Prof Turnbull.

2. On the Cardinal Function of Interpolation
By Mr. W.L. Ferrar.

3. Particular Solutions of the Equation of Conduction of Heat in One Dimension. By Miss M. C Gray.
(Communicated by Mr. E. T. Copson)

4. Power Coordinates and the Bicircular Quartic.
By Mr. R Wilson.
(Communicated by Prof. Turnbull.)

Messrs. R. B. Bennett, J. Henderson, W. G. M'Lintock, and J. M. Whittaker were elected ordinary members of the Society.

Mr. R. Robb M.A., B.Sc.,

The Mathematics Department, Glasgow University. was nominated for ordinary membership of the Society.

J. E. A. Steggall

6 . 2 . 25

Meeting: 16th January 1925

5

Minutes of Meeting held on Friday, Feb. 6, 1925 in the University, Edinburgh, Prof. J. E. A. Steggall, F.R.S.E., President, in the Chair.

The following papers were read :—

1. On the geometrical connexion between lines in S_3 and points of a quadric in S_5. By Prof. H. W. Turnbull

2. Note on Recurring Decimals   By Mr A. C. Aitken.

3. Note on the Orthocentric Property of a Triangle.
                                    By Prof. H. W. Turnbull

4. Mathematical Notes by various authors.
   (Communicated by Mr Peter Ramsay).

Mr R. A. Robb M.A., B.Sc., was elected an ordinary member of the Society. The following were nominated for ordinary membership :—

Mr A. M. Cassie M.A., 8 Dundas St., Edinburgh.

Mr L. B. C. Cunningham M.A., 38 Buckingham Terrace, Edinburgh.

Miss Eve Macbean, M.A., 20 Warrender Park Crescent, Edinburgh.

Miss J. G. McIntosh M.A., c/o Mack, 13 Gladstone Terrace, Edinburgh.

Miss G. J. Mackenzie M.A., 5 Polwarth Terrace, Edinburgh.

Mr J. Matson M.A., 67 Arden Street, Edinburgh.

Miss M. M. Napier M.A., B.Sc., Gillespies' School, Edinburgh.

Miss A. M. Moore M.A., 24 Buccleuch Place, Edinburgh.

George A. Gibson

6.3.25

Meeting: 6th February 1925

6

Minutes of Meeting held on Friday, March 6, 1925 in the Mathematical classroom of the University of Glasgow, Prof. Gibson in the Chair.

The following papers were read :—

1. The Addition Theorem for the Legendre Functions of the Second Kind, by Dr T. M. MacRobert

2. Elementary Notes on Coordinates, Conics and Conjugate Points, by Dr John Dougall

3. On the Development of the Elementary Functions from Vandermonde's Theorem

    by Dr John Dougall.

4. Note on a New Proof of Binet's Inverse Factorial Series for $\mu(x)$, by Mr E. T. Copson

5. Mathematical Notes by various authors.

    (communicated by Mr Peter Ramsay.)

The following were elected Ordinary Members of the Society :— Mr A. M. Cassie, Mr L. B. C Cunningham, Miss Eve Macbean, Miss J. G. McIntosh, Miss G. I. Mackenzie, Mr J. Matson, Miss M. M. Napier, Miss A. M. Moore.

On the motion of the Hon. Treasurer (Dr Horsburgh) Prof. and Mrs. Gibson were thanked for their hospitality to members of the Society

J. C. H. Steggall

Meeting: 6th March 1925

Minutes of Meeting held on Saturday, May 2, 1925 in the United College, St. Andrews, Professor Steggall, President in the Chair.

The following papers were read :—

1. The Approximate Summation of a certain class of Series,   by Prof. H. M. Macdonald.

2. On Coaxal Quadrics, by Prof. J. E. A. Steggall.

3. The Group of the (2.2) Form,
                by Dr R. Vaidyanathaswami.
(communicated by Prof. Turnbull).

4. A Geometrical Interpretation of the Concomitants of the Double Binary (2.2) Form,
                by Mr W. Saddler.

The following were nominated for ordinary membership of the Society :—

Miss Helen Brown, The University, St. Andrews.
Mr J. Buchanan, M.A. (St. An), Trin. Coll., Cambridge.
Mr H. H. Clements, B.A., Leith Nautical College.
Mr R. L. Gwilt, F.F.A., c/o Scottish Widows' Fund,
                9 St. Andrew Square, Edinburgh.
Miss Catherine C. Steele, The University, St. Andrews.
Miss Isabella K. Stewart, 146 East High St., Forfar.

On the motion of the President, Prof. & Mrs. Turnbull were thanked for their hospitality to members of the Society.
                J. E. A. Steggall

Meeting: 2nd May 1925

8

Minutes of meeting held on Friday, 5th June, 1925 in the University, Edinburgh, Professor J. E. A. Steggall, President in the Chair.

The following papers were read:—

1. The Mathematical Theory of Graduation,

by Mr A. C. Aitken.

2. Note on the Configuration of Lines and Points on a Quadric Surface   by Prof. H. W. Turnbull.

3. Note on a Binary Quartic, by Mr W. Saddler.

The following papers were communicated by title.

4. On Topics of Regions separated by Boundaries,

by Dr R. F. Muirhead.

5. The Differentiation of an Indefinite Integral,

by Mr J. M. Whittaker.

6. On the relation between Inverse Factorial Series and Binomial Coefficient Series, by Mr W. L. Ferrar

7. Note on Prof. B. B. Baker's "Extension of Heaviside's Method,"   by Dr J. Kaucky

The following were elected Ordinary Members of the Society:— Miss Helen Brown, Mr J. Buchanan, Mr A. H. Clements, Mr R. L. Gwilt, Miss C. C. Steele, Miss I. K. Stewart.

Mr A. H. Weatherhead M.A., F.F.A., 35 St. Andrew Square, Edinburgh, was nominated for ordinary membership

Meeting: 8th June 1925

of the Society.

On the motion of the Chairman, Professor and Mrs. Whittaker were thanked for their hospitality to the Members throughout the Session.

C.T. Whittaker.

EDINBURGH MATHEMATICAL SOCIETY

FORTY-THIRD SESSION, 1924-25.

THE FIRST ORDINARY MEETING for the Session will be held on *Friday, 7th November, at 7 p.m.*, in the RESEARCH ROOM OF THE MATHEMATICAL INSTITUTE OF EDINBURGH UNIVERSITY.

BUSINESS.

1. A Series for Symmetric Functions of Roots of Equations ... ... A. C. AITKEN.

2. On the Sexi-Sectional Equation
   A. A. KRISHNASWAMI AYYANGAR.
   (To be communicated).

3. Notes on James Gray ... ... C. TWEEDIE.
   (To be communicated).

4. On Self-Adjoint Partial Differential Equations of the Second Order ... ... E. T. COPSON.

5. Treasurer's Report.

6. Librarian's Report.

7. Election of Office-Bearers.

Tea will be served in the Institute from 6.15 p.m.

The Subscription of **Ten Shillings** for the current Session is now due, and is payable to the Hon. Treasurer,

E. M. HORSBURGH, M.A., D.Sc., A.M.I.C.E.,
11 GRANVILLE TERRACE, EDINBURGH.

BEVAN B. BAKER, *Hon. Sec.*,
University of Edinburgh, Mathematical Institute,
16 Chambers Street, Edinburgh.

Committee Meeting at 6.30 p.m.

Edinburgh Mathematical Society.
1923 — 1924.

Capital Account.
Invested Capital £200 Reg. Treas. Bonds SB 162624; 161 B.
£100 Reg Treas Bond. Ed. Sav. Bk. S 5 Soc/953

Bank Balance Nov 1923	£	10 - 12 - 6
Life membership (2)	£	12 - 12 - 0
Interest		2 - 11
Bank Balance Nov 1924.	£	23 - 7 - 5

Cash Account.

	£ S D
Bank Balance Nov 1923 £ 140-4-10	Printers a/c (i) 168-17-6
Annual Subscriptions £ 71-17-6	Library a/c 7-16-3
Sale of Proceedings £ 13-12-7	Printers a/c (ii) 82-19-6
Interest & Dividends £ 20-3-7	Janitors & Rooms 1-13-0
Special Contributions to(i) £ 5-0-0	Insurance, Bank
Printing Funds (ii) £ 17-15-0	Charges Postages } 2-3-5
(iii) £ 45-0-0	& Sundries
E Vul Horsburgh	Bank Balance Nov 1924 50-3-10
Hon, Treas. £ 313-13-6	£ 313-13-6

EDINBURGH MATHEMATICAL SOCIETY

FORTY-THIRD SESSION, 1924-25.

THE SECOND ORDINARY MEETING for the Session will be held on *Friday, 5th December, at 6.30 p.m.*, in the MATHEMATICAL CLASSROOM, THE UNIVERSITY, GLASGOW.

BUSINESS.

1. On the Expression for the Surface Density of a Sphere in Terms of Spherical Harmonics - - - Dr T. M. MACROBERT.
2. On the Riemann P Equation with Integral Exponent Differences - Mr W. L. FERRAR.
3. Elementary Notes on Coordinates, Conics and Conjugate Points - - Dr JOHN DOUGALL.

Professor and Mrs Gibson "At Home," 10 The University, Glasgow, from 5.30 to 6.30

Office-Bearers for the Session 1924-25.

President . .	Professor J. E. A. STEGGALL, M.A.
Vice-President .	Professor BEVAN B. BAKER, M.A., D.Sc., F.R.S.E.
Hon. Secretary .	E. T. COPSON, B.A., F.R.S.E.
Hon. Treasurer .	E. M. HORSBURGH, M.A., D.Sc., Assoc.M.Inst.C.E.

Editors of Proceedings { Prof. H. W. TURNBULL, M.A., F.R.S.E. T. M. MACROBERT, M.A., D.Sc., F.R.S.E.

Editor of Mathematical Notes—PETER RAMSAY, M.A., B.Sc.,F.R.S.E.

Hon. Librarian . DAVID GIBB, M.A., B.Sc., F.R.S.E.

Committee.

WILLIAM ARTHUR, M.A.
G. S. EASTWOOD, B.Sc.
J. B. LOCKHART, M.A.
ARCHIBALD MILNE. M.A., D.Sc., F.R.S.E.
WILLIAM SADDLER, M.A.
G. D. C. STOKES, M.A., D.Sc.
Professor E. T. WHITTAKER, Sc.D., F.R.S.

The Subscription of **Ten Shillings** for the current Session is now due, and is payable to the Hon. Treasurer,

E. M. HORSBURGH, M.A., D.Sc., Assoc.M.Inst.C.E.,
11 GRANVILLE TERRACE, EDINBURGH.

E. T. COPSON, *Hon. Sec.*,
University of Edinburgh, Mathematical Department,
16 Chambers Street, Edinburgh.

Committee Meeting at 6.10 p.m.