Session 1923 - 24

Forty - Second Session.

2 - 11 - 23.

Minutes of Meeting held on Friday, 2nd November, 1923, in the University, Edinburgh, Mr Ramsay, President, in the chair.

The following papers were read :—

1. The Equation of Telegraphy, by Miss M. C. Gray

2. An Elementary Proof of Girard's Theorem, by Mr. A. C. Aitken

3. Note on an Infinite Product of Euler, by Mr. A. C. Aitken.

Dr Horsburgh, the Honorary Treasurer, submitted his annual report, which showed balances in favour of the Society of £10 - 12 - 6 on the Capital account & £140 - 4 - 10 on the cash account. On the motion of the Chairman the report was accepted and Dr. Horsburgh was thanked for his services to the Society.

Mr Gibb, Librarian, submitted the annual report of the Library Committee, stating that the usual periodicals had been received during the Session together with certain other periodicals & pamphlets.

Meeting: 2nd November 1923

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On the motion of the Chairman the report was adopted and Mr Gibb was thanked for his services to the Society.

The following office-bearers were elected for the Session 1923-24:—

President, Archibald Milne, M.A., D.Sc., F.R.S.E.

Vice-President, G. D. C. Stokes, M.A., D.Sc.,

Hon. Secretary, Bevan B. Baker, M.A., D.Sc., F.R.S.E.

Hon. Treasurer, E. M. Horsburgh, M.A., D.Sc., A.M.I.C.E.

Editors of Proceedings, Archibald Milne, M.A., D.Sc., 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.

R. T. Dunbar, M.A., B.Sc.

James D. Fulton, M.A., B.Sc.

Miss Marion C. Gray, M.A.

J. B. Lockhart, M.A.

Professor H. W. Turnbull, M.A.

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. R. T. Dunbar and Mr Y. Robinson.

Dr A. B. Grieve & Mr A. Krishnaswami Ayyangar

were elected ordinary members of the Society.

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

Professor C. G. Darwin, M.A., F.R.S., Tait Professor of Natural Philosophy, The University, Edinburgh,

Mr. A. C. Aitken, M.A., Mathematical Institute, The University, Edinburgh

Mr G. L. Frewin, M.A., Mathematical Institute, The University, Edinburgh.

Mr Gorakh Prasad, Mathematical Institute, The University, Edinburgh.

Miss M. C. Simpson, 2 Ormelie Terrace, Joppa.

Robert F. Blades, M.A., B.Sc., Millburn Manse, Renton

George H. Drummond, M.A., B.Sc., Juniper Green School, Edinburgh

Minutes of Meeting held on Friday, 7th December, 1923, in the University, Glasgow, Dr Stokes, Vice-President, in the Chair.

The following papers were read:—

1. On some Spherical Harmonic Expansions,
   by Dr T. M. MacRobert,

2. Direct Proofs in Elementary Geometry,
   by Mr Robert F. Blades,

3. The Numerical Evaluation of Double Integrals,
   by Mr A. C. Aitken & Mr G. L. Frewin,

4. Note on a Linear Partial Differential Equation of Hyperbolic Type,   by Mr E. T. Copson.

On the motion of Dr Horsburgh, seconded by Mr Gibb, the Committee brought forward the recommendation that Mr James Bolam, of Leith Nautical College, Leith, be elected an Honorary Member of the Society, in recognition of his distinguished services to Science, and of his membership of the Society for more than forty years.

The following were elected ordinary members of the Society:— Professor C. G. Darwin, F.R.S., Mr A. C. Aitken, Mr G. L. Frewin, Mr Gorakh Prasad, Miss M. C. Simpson, Mr Robert F. Blades & Mr G. H. Drummond

Meeting: 7th December 1923

Mr W. Vincent Forrest, M.A., The Academy, Rothesay, was proposed for ordinary membership.

On the motion of the Chairman, Professor & Mrs Gibson were thanked for their hospitality to members of the Society.

*Archibald Milne*
President.

11 - 1 - 24.
Minutes of Meeting held on Friday, 11th January, 1924, in the University, Edinburgh, Dr Milne, President, in the chair.

The following papers were read :—

1. Canonical Forms of the Cubic Surface, by Prof H. W. Turnbull;

2. On Inverse Functions, by Prof. E. T. Whittaker;

3. The Linear Complexes belonging to the Invariant System of three quadrics, by Mr. J. Williamson

4. On Mixed Determinants, by Mr R. Vaidyanathaswami.

Mr James Bolam was elected an Honorary Member of the Society.

Mr W. Vincent Forrest, M.A., was elected an ordinary member of the Society.

Mr J. Williamson, M.A., Lecturer in Mathematics, The University, St. Andrews, was proposed for ordinary membership.

*G. D. C. Stokes*

Meeting: 11th January 1924

1-2-24. Minutes of Meeting held on Friday, 1st February, 1924, in the University, Edinburgh, Dr Stokes, Vice-President, in the chair.

The following papers were read:—

1. The Equation of Conduction of Heat by Miss M. C. Gray

2. The Numerical Solution of Integral Equations.
                    by Mr Gorakh Prasad

3. Note on the configuration of the eight common points of three quadrics      Prof. H. W. Turnbull

4. Note on Sylvester's Theorem of Elimination
                    by Mr W. Saddler

Mr J. Williamson was elected an ordinary member of the Society.

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

Mr Leo. J. Close M.A, Inspector of Schools, 1 Hume Street, Dublin

Mr Timothy C. Twomey, Inspector of Schools, 1 Hume Street, Dublin.

Archibald Milne
President

Meeting: 1st February 1924

7-3-24.

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

The following papers were read

1. On the Rearrangement of Terms in a Complex Series. by Prof. S. Beatty, (Communicated by the Hon Secretary)

2. Analytical Expressions for Jenner's & other Valve Diagrams; by Mr Frank Lord, (Communicated by Dr Horsburgh);

3. Some Axi-Symmetric Determinants with Integers for Elements; by Mr J. J. Nassau, (Communicated by Mr Gibb)

4. Conservation Theorems for a damped Physical System by Mr E. T. Copson.

A request was received from the Société Mathématique de France, that this Society should send representatives to the fiftieth anniversary of the founding of the Society to be held in Paris from May 22nd to 24th. Professor Whittaker & Dr Baker were appointed to represent the Society on that occasion.

Mr Leo J. Close M.A. & Mr Timothy C. Twomey were elected ordinary members of the Society.

Archibald Milne
President

Meeting: 7th March 1924

Minutes of Meeting held on Friday, 2nd May, 1924, in the University, Glasgow, Dr Milne, President, in the Chair.

The following papers were read:—

1. A Generalization & Simple Proof of Kronecker's Theorem concerning the Minors of a Compound Determinant.

by Prof. W. H. Metzler.

(Communicated by Mr Gibb).

2. An Extension of Heaviside's Operational Method of Solving Differential Equations,

by Dr Bevan B Baker

3. Notes on Mathieu's Differential Equation

by Dr John Dougall.

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

Mr James H. Filshie, M.A., B.Sc., North Kelvinside School, Glasgow.

Mr John Reilly, B.Sc., North Kelvinside School, Glasgow.

On the motion of the President, Professor & Mrs Gibson were thanked for their hospitality to members of the Society.

Archibald Milne
President,

Meeting: 2nd May 1924

14 – 6 – 24.

Minutes of Meeting held on Saturday, 14th June, 1924, in the United College, St. Andrews, Dr Milne, President, in the Chair.

The following papers were read:—

1. On the bearing of Projective Geometry on Weyls' Relativity Hypothesis, by Prof. H. W. Turnbull;

2. Note on the Geometry of two Binary Quadratics in the Complex Plane, by W. Saddler;

3. The Concomitants of two "two-one" Double Binary Forms, by W. Saddler;

4. Projective Covariants of three Quaternary Quadrics, by J. Williamson;

5. Series Formulae for the Roots of Equations, by A. C. Aitken;

6. The Locus of Lines meeting three regions, by R. Vaidyanathaswami;

7. The Properties of a new Orthogonal Function associated with the Confluent Hypergeometric Function, by G. E. Chappell.

Dr MacRobert was elected a representative of the Society on the National Committee for Mathematics of the Royal Society of London, in succession to Dr Dougall, as from January 1st, 1925.

Meeting: 14th June 1924

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Mr James H. Filshie & Mr John Reilly were elected ordinary members of the Society.

On the motion of the Chairman Professor & Mrs Turnbull were thanked for their hospitality to members of the Society.

Archibald M'Oly
President.

Edinburgh Mathematical Society 1922-23.

## Capital Account

| | | | |
|---|---|---|---|
| | Bond B 162624 £200 | Bond B 162624 | £200 |
| (1922) | Bank Balance (Nov '22) 44-17-1 | Purchase of Bond | 102-14-1 |
| | Interest 1-1-6 | (1923) Bank Balance 31st od '23 | 10-12-6 |
| | From Cash a/c 60 | | £ 313-6-7 |
| | Life memberships 7-8-0 | | |
| | £ 313-6-7 | | |

## Cash Account

| | | | |
|---|---|---|---|
| (1922) | Bank Balance (Nov 1922) 127-2-7 | Printers a/c | £ 87-4-6 |
| | Annual Subscriptions 82-1-0 | Library | 8-8-3 |
| | Sale of Proceedings 54-8-2 | To Capital | 60-0-0 |
| | Interest 2-6-9 | Janitors & Rooms | 1-14-0 |
| | Dividend 7-10-0 | Insurance & Bank | 14-7 |
| | Contributions to Printing 27-0-0 | Postages & Sundries | 2-2-4 |
| | £ 300-8-6 | (1923) Bank Balance (31st Oct) | 140-4-10 |
| | | | £ 300-8-6 |

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