

EMS Minutes: Volume 1: pages 158 to 164

1899-00: Eighteenth session

Eighteenth Session — 1899-1900.

Minutes of meeting held on Friday 10th November 1899 in the Edinburgh Institution — Dr Mackay in the chair.

The following papers were read:—

1. "Elementary Proof that the Arithmetic Mean of any number of quantities is greater than the Geometric mean", by Mr G. E. Crawford — Communicated by Dr Morgan.
2. "The dissection of any two triangles into mutually similar pairs of triangles", by Mr R. F. Muirhead.
3. "Two geometrical transformations", by Dr Thirid.

Mr Spence thereafter submitted the Treasurer's report for Session 1898-99, which showed a balance of £11"18"11 in favour of the Society. A special vote of thanks was accorded to Dr Thirid and to Dr Spryngue for their donations to the Society's Funds.

The following were elected officebearers for the current session:—

President..... R. F. Muirhead, M.A., B.Sc.

Vice-President... J. W. Butters, M.A., B.Sc., F.R.S.E.

Meeting: 10th November 1899

Hon. Secretary --- D. C. Mc Intosh, M.A.
Hon. Treasurer --- James Archibald, M.A.
Editors of "Proceedings" --- W^m A. Lindsay, M.A. (Convener)
C. G. Knott, D.Sc., F.R.S.E.
Chas. Tweedie, M.A., B.Sc., F.R.S.E.
Committee: George Duthie, M.A., F.R.S.E.
James Mitchell, M.A., B.Sc.,
John A. Third, M.A., D.Sc.

For election at next meeting

1. M^r Ernest M. Anderson, M.A., B.Sc.,
Ewart High School, Newton-Stewart
was proposed by M^r Machay and seconded by Prof. Gibson
2. M^r Robert Lees, M.A., B.Sc.,
George Watson's College, Edinburgh,
was proposed by M^r Alison and seconded by M^r Spence
3. M^r John Miller, M.A.,
Technical College, Glasgow,
was proposed by Prof. Gibson and seconded by M^r Alison
4. M^r David Drysdale, M.A.,
George Heriot's School, Edinburgh,
was proposed by M^r Butters, and seconded by Prof. Gibson
5. Capt. J. Bruce-Kingsmill, R.A.,
15 Kyle Park, Uddingston
was proposed by M^r Muirhead & seconded by Prof. Gibson
6. Prof. E. O. Lovett of Princeton University, New Jersey,

was proposed by Dr. Mackay and seconded by Prof. Gibson.

R. F. Muirhead.

8.12.99

Minutes of meeting held on Friday, 8th December, 1899, in the Edinburgh Institution - Mr. R. F. Muirhead, President, in the Chair.

The following papers were read:-

- 1^o. On the evaluation of a certain Determinant by Professor Crawford, — Communicated by Mr. W. Edward Philip, [The University, Glasgow.]
- 2^o. A special case of the dissection of any two triangles into mutually similar pairs of triangles — by Mr. Alex. D. Russell.
- 3^o. Elementary Proof of the Potential Theorems regarding Uniform Spherical Shells — by Dr. Peddie; Communicated by Mr. Jas. Tweedie, Mr. E. M. Anderson, Mr. Robert Lees, Mr. John Millar, Mr. David Drysdale, Capt. J. Bruce-Kingsmill, and Professor Lovett were elected Ordinary Members; and for election at next meeting Mr. William Mr. Catecher, B.Sc., Symington, Kilmarnock, was proposed by Prof. Gibson and seconded by Dr. Mackay.

R. F. Muirhead

Meeting: 8th December 1899

12.1.19.

Minutes of meeting held on Friday, 12th January, 1900, in the Edinburgh Institution — M^r. R. F. Muirhead, President, in the Chair.

D^r. Peddie delivered an address on The Dissipation of Energy in Vibrating Matter, with Lime-light Illustrations.

On the motion of D^r. Machay, seconded by M^r. Allison, the following was agreed to without discussion. "The Edinburgh Mathematical Society resolves that Professor Gibson's Paper on Proportion be printed in its Proceedings, and recommends it to Mathematical Teachers as a suitable and sufficient substitute for Euclid's Fifth Book."

M^r. M^c Cuthbertson was elected an ordinary member of the Society: and on the motion of M^r. Russell, seconded by D^r. Peddie, M^r. P. S. Hardie, M.A., B.Sc., Sharp's Institution, Perth was proposed for election at next meeting.

A. F. Muirhead

9.2.19.

Minutes of Meeting held on Friday, 9th February, in the Edinburgh Institution — M^r. R. F. Muirhead, President, in the Chair.

Meeting: 12th January/9th February 1900

The President read a note "on Dr. Peddie's Proof of a Theorem in Potential". Mr. Mitchell (Ward Academy) communicated "a general mechanical description of the Conic sections" by Mr. Alex. Morrison, M.A., B.Sc. and Mr. Dougall, Glasgow gave a paper "on Bessel Functions and Spherical Harmonics". ^{Mr. P. B. Hoyle was elected an ordinary member.} R. F. Muirhead,

9.3.1900. Minutes of meeting held on Friday, 9th March, in the Glasgow Philosophical Society's Rooms, 207 Bath Street, Glasgow — the President, Mr. Muirhead, in the Chair.

A paper ^{note} by Professor Steppell 'on Change of Coordinate Axes' was read by Mr. W. L. Thomson; Mr. John Dougall read his paper on 'the analytical representation of a Potential Function of means of Cylindrical and Spherical Harmonics, with applications to Green's Problems'; and Mr. Chas. Tweedie read a paper on the condition for equal roots in the Discriminant for the general Quadratic

There were twenty five members present.

For election as a Life-Member at next meeting Professor Edalji, Gujarat College, Ahmedabad was proposed by Dr. J. A. Hind, seconded by Mr. J. W. Butters. R. F. Muirhead

Meeting: 9th March 1900

11.5.1900. Minutes of meeting held on Friday, 11th May, in the Edinburgh Institution, 8 Queen St. — the President, Mr. Muirhead, in the Chair.

The following papers were read:-

'A Theorem in Continued Fractions' by Professor Steppell (communicated by the Secretary); 'On certain elementary inequality theorems' by Professor Gibson; 'Note sur un problème de géométrie' par M. Ed. Collignon (communicated by D. J. S. Mackay).

Professor Edalji, Gujarat College, Ahmedabad, was duly elected a Life Member of the Society.

R. A. Muirhead

8.6.1900. Minutes of meeting held on Friday, 8th June, in the Edinburgh Institution, 8 Queen Street — the President, Mr. Muirhead in the Chair.

Mr. W. Edward Philip submitted two papers - 1st 'A General Proof of the Addition Theorems in Trigonometry', and 2nd 'A slight extension of Euler's Theorem on Homogeneous Functions'.

Professor Gibson contributed a note on Proofs by Projection in Trigonometry and Coordinate Geometry. D. Mackay communicated for D. C. A. 'Laisant a Problème de la section de raison'.

Meeting: 11th May/8th June 1900

Mr. Muirhead explained in reference to a paper he had read before the society at the beginning of the session how the same problem had been worked out by Mr. W. Wallace in his "Geometrical Theorems and Analytical Formulae" published in Edinburgh, 1829.

After some discussion, it was agreed that Dr. Mackay, the Treasurer and the Secretary make arrangements as to securing a number of copies for the society of Professor Gibson's paper on Proportion.

On the motion of the President, the Secretary was instructed to write Messrs McLaughlin & Turner, conveying to them the hearty thanks of the Society for the continued use of the Institution Rooms free of charge for the Society's meetings.

R. F. Muirhead
Pres.