

EMS Minutes: Volume 1: pages 71 to 79

1888-89: Seventh session

Seventh Session.

Minutes of meeting held on 9th Nov 1888 at 8 p.m. in the Edinburgh Institution, Mr W. J. Macdonald, president being in the chair.

Dr Peddie communicated a paper by Professor Tait on The relation between systems of curves which together cut their plane into squares; Mr. A. G. Fraser read a note by Professor Steggall, University College, Dundee on The value of $\cos \frac{2\pi}{17}$ in terms of quadratic radicals; and Mr George H. Gibson gave a short notice of the additions to the mathematical theory of Heat since the publication of Fourier's "Theorie de la Chaleur".

The treasurer submitted the financial statement for the session just which showed a deficit of £2.3.9.

Messrs. D. F. Lowe, Asutosh Mukhopādhyāy, W. Wilson, W. A. Reid, and A. C. Mitchell

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were elected members of the Society.

The following were proposed for election at the next meeting -

1. Professor Thomson
Stellenbosch
2. Professor Stegall
University Coll. Dundee
Propd by Dr Mackay
Secd by Mr Wilson
3. Mr Thomas King
George Watson's College, Edin.
Propd by Mr John Alison
Secd by Mr A. J. G. Barclay
4. Mr W. Wallace
Garnet Hill School, Glasgow
Propd by Mr G. A. Gibson
Secd by Mr A. G. Fraser.

Dr Ferguson exhibited to the meeting a diagram drawn by Mr Mahan city architect showing by means of small squares, one million units.

The following officebearers for the session were elected -

President - Mr Geo. A. Gibson, M.A. Glasgow
Vice-president - Mr A. G. Fraser, M.A., F.R.S.E.,
Secretary - Mr John Alison, M.A.
Treasurer - Rev. John Wilson, M.A., F.R.S.E.,
Editors of Proceedings - Mr R. E. Allardie, M.A., F.R.S.E.
and Mr W. Peddie, D.Sc., F.R.S.E.
Committee - Mr W. J. Macdonald, M.A., F.R.S.E.
Mr A. C. Elliott, B.Sc., C.E.
Rev. Norman Fraser, B.D.
and Mr J. T. Morrison, M.A., B.Sc.

George A. Gibson

Minutes of Meeting held on 14th
December 1888 in the Edinburgh
Institution, Mr George A. Gibson,
president, in the chair.

Mr David Munn communicated
a paper on The general equation of
the second degree representing a pair
of straight lines - the line at infinity;
and Rev. Norman Fraser gave the first
part of a paper on Kötters synthetic

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geometry of algebraic curves, in which
he treated of imaginary elements.

The following were elected members—
Prof. Thomson, Prof. Steggall, Mr Thomas
King and Mr W. Wallace.

The following was proposed for
election at next meeting—

Mr James Mackenzie Wattie

M.A. (Aberdeen) B.A. (Oxon).

George Watson's College, Edinburgh.

Prop'd by Mr John Alison

Sec'd by Mr A. J. G. Barclay.

Appendix

Minutes of meeting held on 11th Jan
1889, in the Edinburgh Institution

Mr Geo. A. Gibson, president, in the
chair during the first part of the
meeting and Mr A. G. Frazer, vice
president, during the second part.

~~The Rev. Mr. Frazer~~ Mr R. E. Allardice

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gave a note on a formula in Quaternions, the Rev. Norman Fraser read a paper on the number of elements, real and imaginary, in space; and Mr. J. Watt Butters discussed the solution of the equation $x^T - 1 = 0$.

Mr. James MacPherson Wattie was elected a member of the Society.

George A. Gibson

Minutes of meeting held on 8th Feb. 1889, in the Edinburgh Institution, Mr. George A. Gibson, president, in the chair.

Mr. R. E. Allardice submitted a paper by Prof. C. Niven on 'A Proposition in Statics'; the Rev. Norman Fraser gave the second part of a paper on Kötters synthetic geometry of algebraic curves in which he took up Involutions of the second and higher orders; and Mr. A. Y. Fraser communicated a paper by Prof. Steggall on Amshler's planimeter.

George A. Gibson

Meeting: 8th February 1889

Minutes of meeting held on
8th March 1889 in the Edinburgh
Institution, Mr George A. Gibson,
president, in the chair.

Prof. Chrystal read a paper
on the closeness of the approximation
in Stirling's theorem; Mr John
Alison read a paper by Mr W.
J. Millar on the most economical
speed for a steamer in relation
to the cargo carried and the
coal consumed: and the Rev.
Norman Fraser gave the third part
of his paper on Kötter's synthetic
geometry of algebraic curves in
which he dealt with involutions
nets and involutions of 2nd, 3rd
... Rank.

N. Fraser.

Minutes of meeting held on
12th April 1889 in the Edinburgh
Institution, Mr A. Y. Fraser, vice-

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president in the Chair. The secretary submitted a paper by Mr Charles Chree on vortice motion in a rotating fluid, and Mr R. E. Allardice read a paper on the expression of a symmetric function in terms of the elementary symmetric functions. Messrs A. Y. Fraser, J. T. Morrison and W. Wallace read papers on laboratory work in electricity for large classes, which were illustrated by some of the apparatus in actual use at Heriot's Hospital School and Gamethill School, Glasgow. Dr Mackay presided while Mr Fraser read his paper.

George A. Gibson

Minutes of meeting held on 10th May 1889 in the Edinburgh Institution. Mr. George A. Gibson, president, in the chair. Dr. J. S. Mackay gave some solutions of two geometrical problems and the Rev. Norman Fraser gave

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the fourth and concluding part
of his paper on Kötter's synthetic
geometry of algebraic curves.

George A. Gibson

Minutes of meeting held on 14th
June 1889, in the Edinburgh
Institution, Mr George A. Gibson
president, in the chair. Mr R.
E. Allardice read a paper by
Mr. Paul Aubert on 'Une propriété
projective des sections coniques';
and Prof. Steggall communicated
'Notes on the regular solids' and on
'A certain cubic connected with
a triangle'.

On the motion of the Chairman
a hearty vote of thanks was given
to Dr Ferguson for his kindness in
granting the Society the use of his
rooms.

It was intimated that it had
been arranged that the members

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of the Society should visit the Forth
Bridge on Saturday the 15th June.

George A. Gibson