

EMS Minutes: Volume 1: pages 27 to 45

1884-85: Third session

Nov 14
1884

Third Session 1884-85

Minutes of the first meeting of the third session held in the Edin. Institution, 8 Queen St., on Friday 14th Nov 1884 - Dr Thomas Muir, President, in the chair.

Mr. John S. Mackay gave an account of the geometrical figure known to the Greeks as "The Shoemaker's knife".

Officers bearers for the session were unanimously elected as follows:-

President, Mr A. J. G. Barclay; Vice-president, Mr George How; Secretary & Treasurer, Mr. A. Y. Fraser; Committee - Mr R. E. Allardice, Dr R. M. Ferguson, Mr J. S. Mackay, Mr W. J. Macdonald, Dr Thomas Muir and Mr David Muir.

Mr John Milne who had been proposed for membership having been allowed to withdraw his name, the following were elected ordinary members:- Mr Jas Edmond, G. N. Stewart, Jas Walker, G. P. Benson Cunningham and T. E. Sanderson.

The following were then proposed for election as ordinary members:-

Meeting: 14th November 1884

1. John Mack, M.A. Douglas Cottage, Ballieston, Glasgow
2. T. B. Sprague, M.A., F.R.S.E., 26 St Andrew's Square, Edinburgh
3. Jas Thomson, M.A., Mathematical Master - The Academy, Ayr
4. John Cameron, Math. Master, The Academy, Montrose.
5. John Weir, M.A., Peterhouse, Cambridge
6. William T. Mitchell M.A., 3 Dalmeida Terrace, Pollockshields, Glasgow
7. Peter Alexander, M.A., Mathematical Tutor, Lady Margaret's College, Glasgow
8. A. J. Macnicol, M.A., F.C. Mansie Dunsin
9. William Brown, Merchant Taylor's School, Charterhouse Square, London.
10. William Mackay, M.A., Rector of the Academy, Rotheray.
11. James Spittal, M.A., Schoolhouse, Ellon
 prepared by Dr Muir
 seconded by Mr Barclay
12. R. C. Buist M.A., D.A.,
 prepared by Mr Allardice
 seconded by Mr W. J. Macdonald

13. John Alison, M.A., W^o. Gunn N^o. 13 Cowry St Edin^g.

14. Harry Rainy, 25 George Square Edinburgh

15. W.S. Dickson, 3 Royal Circus Edin^g.

propounded by W.S. Mackay

seconded by W.A.G. Barclay

16. David Rees, Teacher of Mathematics,
Aberdeen

17. Alexander Fraser M.A. Optician & Lithian St
Edinburgh

18. John S. Fraser M.A. Student in Law, Univer-
sity, Edinburgh.

propounded by W.A.G. Barclay

seconded by W.S. Mackay

The financial statement showing a balance
in favour of the society ~~of~~ of 12/6 was
read and approved.

The following resolution of committee was
read: "That last year's proceedings be sold
to new members who may wish to purchase,
at 2/6."

A. J. G. Barclay

Dec 12

2nd

Minutes of the second meeting of this
session held in the Edin: Institution on
Friday 12 Dec 1884 - W. A. J. G. Barclay,
president, in the chair.

D^r. Meun communicated a paper
by Mr. Peter Alexander on "Failing
cases of Fourier's Theorem". D^r. Meun
also read a note by himself on "a function
of two integral arguments". M^r. A.
G. Fraser discussed "the number of con-
ditions determining geometrical fi-
gures".

The following were elected ordinary
members:-

Messrs John Black M.A., T. B. Sprague
M.A., F.R.S.E., Jas. Thomson M.A., John Cameron,
John Weir M.A., W^o. T. Mitchell M.A., Peter
Alexander M.A., A. J. Macneil M.A., W^o.
Brown, W^o. Mackay M.A., James Spittal
M.A., R. C. Buist M.A., B.A., John Alison M.A.,
Harry Rainy, W.S. Dickson, David Rees,
Mr. Fraser M.A. and John S. Fraser M.A.

A. J. G. Barclay

Meeting: 12th December 1884

1885

Jan 9
3rd

Minutes of meeting held on 9 Jan 1885 in the Edinburgh Institution - Mr. A. J. G. Barclay, president, in the chair.

Professor Chrystal gave a method of finding "the minimum circle enclosing n -points"; Dr. Muir read a paper on "the equation connecting the mutual distances of four points in a plane"; and Mr. John S. Mackay contributed two "Geometrical Notes" discussing the solution of problems already before the Society.

The following were proposed for election as ordinary members:

1. Robert Philip, M.A., Head Math. Master, Hutchison's Grammar School, Glasgow.
2. Hugh Dickie, B.A., Rector, The Academy, Kilmarnock.
3. Walter Colquhoun, Math. Master, Garnethill School, Glasgow.
4. James Strachan, M.A., Garnethill School, Glasgow.
5. Rev. John Wilson, M.A., F.R.S.E., The Academy, Bannockburn.
6. John M. Gossan, M.A., Royal College of Science, Dublin.

Meeting: 9th January 1885

- proposed by Dr. Muir;
seconded by Mr Barclay.

7. John Clark, M.A., Pembroke College,
Cambridge;

8. John Couper, M.A., Clare College,
Cambridge.

- proposed by Mr Fraser;
seconded by Mr Barclay.

A. J. G. Barclay

Feb 13
4th

Minutes of meeting held on 13th Feb 1885 in the Edinburgh Institution - Mr. A. J. G. Barclay, president, in the chair.

Professor Tait read a "note on a plane strain", read by Mr Peddie. Dr. Muir gave an account of a paper by Mr. P. Alexander "on Boole's proof of Fourier's Double Integral Theorem"; and then contributed theorems by himself on mutually tangent circles. Mr W^m Peddie discussed reflected rainbows; Mr R. S. Allardice gave a note on Spherical Geometry; and Mr R. Y. Fraser made some remarks on a

Meeting: 13th February 1885

problem in plane geometry.

The following were elected ordinary members:

Mr Robert Philip, M.A., Mr Hugh Dickie, B.A., Mr Walter Colquhoun, Mr Jas: Strachan, M.A., Rev John Wilson, M.A., F.R.S.E., Mr John Mc Cowan, M.A., Mr John Clark, M.A., Mr John Couper, M.A.

The following were proposed for election as ordinary members:

1. Rev: Alex: Murdoch Forbes, M.A.,
F.C. Mann, Towie, Aberdeenshire
prop^d by Mr P. J. Anderson,
sec^d by Mr A. Y. Fraser.
2. Mr J. Crockett, 10 Gillespie Crescent;
3. Mr G. Crulman, 7 Parkside Terrace;
4. Mr H. N. Dickson, 38 York Place
prop^d by Mr W. Peddie,
sec^d by Mr N. L. Allardice.
5. Robert Tucker M.A. Math Master
Univ. College School, London;
prop^d by Mr J. S. Mackay
sec^d by Dr Mann.

W. Storr

May 13
5th

Minutes of meeting held on 13th March 1885 in the Edin: Institution, Mr George Thom, vice-president in the chair.

Mr George A. Gibson read a paper on "Gilbert's method of treating tangents to con-focal conicoids"; Mr J. S. Mackay gave an account of "Schostek's geometry of the rule"; and the secretary read a note by Mr P. Alexander on the two definite integrals $\int_0^{\sin x} \cos x dx$ and $\int_0^{\cos x} \sin x dx$.

The following were elected ordinary members:

Rev A. M. Forbes M.A., Mr J. Crockett, Mr H. G. Crulman, Mr H. N. Dickson, and Mr Robert Tucker M.A.

The following were proposed for election as ordinary members:-

1. Charles Little, M.A. Abdn B.A. Cantab, scholar of Gonville and Caius College Cambridge.
2. Lawrence Crawford, Min and Rectalfe Mathematics Bursar of Glasgow University
251 Renfrew St Glasgow.
3. John Gosan, 2 Beckford St, Hamilton, Lanarksh.

Meeting: 13th March 1885

4. James Macmillan M.A. Metcalf Mathematical
Bursar of Glasgow Univ: 21 Windsor St Glasgow.
5. James Hamilton M.A. Glasgow B.A. Cantab. Math.
Master Kensington Grammar Sch. London
6. David Murray M.A. B.Sc. Math: Master, High
School, Dumfries.
7. Robt. A. Nicholson Metcalf Math: Bursar
Glasgow Univ:
8. John Douglass, Univ Math: Bursar of Glasgow
Univ:
9. Charles Chree M.A. Abdⁿ 11 Wharfedale St Cambridge.
10. Alan B. Dow M.A. Abdⁿ High School, Kirkcaldy.
11. G. H. Guggis M.A., LL.B., F.R.S.E., Blair Lodge Straloch.
12. John Thomson, Schoolhouse Howwood Paisley.

prof ^r by D. Meir	}
Sec ^y by Mr Thom	
13. Alimus Martin Editor of the Mathematical
Visitor America.

prof ^r by D. Meir	}
Sec ^y by Mr J.S. Mackay	
14. R. J. Dallas Student in Abd. Universit^y.

prof ^r by D. Meir	}
Sec ^y by Mr H.G. Fraser	
15. A. M. Williams M.A. Science master

- High School for Girls, Abdn

prof ^r by Mr P. J. Anderson	}
Sec ^y by Mr. A. G. Fraser	
16. Norman Fraser M.A. Glasgow

U. P. Divinity Hall Edinburgh	}
prof ^r by Mr H.G. Fraser	
Sec ^y by Mr Gibson	
 - 17 Mr. Geo. Buchanan Student in Arts
(18 Willowbank Crescent) Glasgow

prof ^r by Mr Gibson	}
Sec ^y by D. Meir	

A. J. G. Barclay

Minutes of meeting held 10 April 1885 in
the Edin. Institution Mr A. J. G. Barclay, presi-
dent in the chair.

Mr T. B. Sprague contributed a paper,
read by Prof. Chrystal, "On the indeterminate
form 0⁰"; and Mr John Alison read a
paper "On the so-called Simpson line".

The following were elected ordinary
members:-

Charles Little M.A., Lawrence Crawford,

Meeting: 10th April 1885

John Gorton, Jas: Macmillan M.A., Jas: Hamilton
M.A., David Murray M.A., B.Sc., R.S.M., A. Nicholson,
John Doyall, Charles Cluett M.A., A.B. Don M.A.,
A.H. Anglin M.A., LL.B., F.R.S.E., John Thomson, Artemus
Martin, R. J. Dallas, A. H. Williams M.A., Norman
Fraser M.A., Jas: Buchanan - in all seventeen.

Rev. W. L. Dow M.A. The proposal was
was then proposed for election as an ordinary
member by Dr. Thomas Muir, }
seconded by Mr W. Reid. }
A. J. G. Barclay

Minutes of meeting held 8 May, 1885 - in the Edin
Institution - Mr A. J. G. Barclay, president, in
the chair.

Professor Chrystal read paper "On
Repeated Differentiation" and "On a
process for finding the differential equa-
tion of an algebraic curve"; Dr. Muir con-
tributed a note "On Integration Formulae"
and a "Historical note on the so-called Simpson
line"; and Mr J. S. Mackay gave mnemonics
for π , $\frac{1}{\pi}$ and e .

Dr. Muir x

Meeting: 8th May 1885

Minutes of meeting held 12 June 1885
in the Edinburgh Institution - Dr. Thomas
Muir, in the absence of the President and
Vice President, in the chair.

Professor Tait gave an address on
the detection of amphichiral knots
with special reference to the mathe-
matical processes involved.

Mr William Scott M.A. Schoolhouse, New
machar, Aberdeen was proposed for
election as an ordinary member by Mr
P. J. Anderson, Aberdeen, seconded by
Mr A. G. Fraser.

After some conversation on the affairs
of the society;

Dr. Ferguson gave notice with reference
to rule 2 of a motion that members sub-
scription be raised from 5/- to 7/6.

Dr. Muir gave notice with reference to
rule 6 of a motion that the last meeting
of the session be held in June instead of in
July.

Mr. John S. Mackay with reference to rule
7 and with a view to lighten the secretary's

Meeting: 12th June 1885

work gave notice of a motion that the office of secretary and treasurer be disjoined.

The secretary was authorised to prepare a circular for distribution among members explaining these notions and asking for an expression of opinion on the first in particular.

A. J. G. Barclay

Minutes of meeting held 10th July 1885 in the Edinburgh Institution - Mr A. J. G. Barclay, president in the chair.

Mr R. E. Atkinson read a paper by Mr Charles Chree on the form taken in polar coordinates by the equivalents of certain expressions in Cartesian coordinates which occur in the theory of elastic solids. Mr J. S. Mackay communicated a note by Mr R. T. Dallas on orthogonal projection & Mr Atkinson contributed a proposition suggested by + a generalisation of Simpson's Line.
Mr W. Scott M.A. schoolmaster New Machar was elected an ordinary member.

Meeting: 10th July 1885

The amendments to rules 2, 6, & 7 on which the opinion of members had been invited by circular were, after the secretary had intimated that all the replies received were favourable, carried unanimously as follows:

1. Amendment to rule 2.

On the motion of Dr. Ferguson it was agreed that the annual subscription be raised from 5/- to 7/6.

2. Amendment to rule 6.

On the motion of Dr. Muir (made in his absence by Mr J. S. Mackay) it was agreed that the session close in June instead of in July.

3. Amendment to rule 7.

On the motion of Mr J. S. Mackay it was agreed that the offices of secretary & treasurer be disjoined.

Dr. Rees & the secretary were appointed to represent, if necessary, the society at the Aberdeen meeting of the British Association.
A vote of thanks to Dr. Ferguson for the

use of rooms in the Edin^g Institution was moved
by the president and heartily accorded.

Mr. Neom

Geo. Shon