

EMS Minutes: Volume 1: pages 268 to 278

1912-13: Thirty first session

Session 1912 - 1913.

Thirty - First - Session

8.10.12

Minutes of meeting held on Friday, 8th Nov. 1912 in the Edinburgh Institution, 8 Queen St. Dr Sommerville, President, in the chair.

The following papers were read :-

1. Integral Equations and the determination of Green's Functions in the theory of Potential by Professor Carslaw, communicated by Professor John Miller.
2. On the expansion of $(1 + \frac{z}{12} + \frac{z^2}{13} + \frac{z^3}{14} + \dots)^{-n}$ in positive integral powers of z , when n is a positive integer by F. E. Edwards, communicated by ~~Dr. M. D. Dutoch~~ a. G. Burgess.
3. A determinantal proof of Stolemy's Theorem by Prof Swaminarayan, communicated by Dr M. Dutoch.

Mr Russell, Hon Treasurer, submitted his report for session 1911-12, which showed that 160½ annual subscriptions had been received, and that there was a balance of £111-1-2 on the Capital Account, & a balance of £14-17/- on the cash account, making a total balance of £125-18-2. The President ~~was~~ moving the adoption of the report

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congratulated Mr Russell on the satisfactory state of the accounts.

Mr Gibb, Hon Librarian, read his report which showed that 32 periodicals had been received during the year in exchange for the society's Proceedings & that 12 books & pamphlets had been presented to the society by their authors. The binding of the periodicals in the library had been continued, 134 volumes having been bound during the year at a cost of £10-2/. The President moved the adoption of the report & Mr Gibb was thanked for his services. It was agreed to continue the binding of the periodicals. The following office-bearers were elected for the session 1912-1913:—

President	---	a. G. Burgess, M.A., F.R.S.E.
Vice President	---	Prof John Miller, M.A., D.Sc., F.R.S.E.
Hon Secretary	---	Peter Courie, M.A., B.Sc., F.R.S.E.
Hon Treasurer	---	alex. D. Russell, B.Sc., F.R.S.E., F.R.A.S.
Editors of Proceedings	---	{ Robert J.T. Bell, M.A., D.Sc. Neil McArthur, M.A., B.Sc.
Editor of Mathematical Notes	---	P. Pinkerton, M.A., D.Sc., F.R.S.E.
Library Committee	---	{ David Gibb, M.A., B.Sc., F.R.S.E. Erskine D. Williamson, M.A., B.Sc. Hon Secretary

Committee

J. M. Y. Sommerville, M.A., D.Sc., F.R.S.E.

J. A. Mc Bride, B.A., B.Sc.

Alex Leighton, M.A., B.Sc.

E. M. Horsburgh, M.A., B.Sc., A.M.S. C.E.

The following were candidates for ordinary membership

1. William Brash, M.A., B.Sc. West Calder
 2. J. M. Datta, Supdt of Post Offices, Purnea, Bengal, India.
 3. Wm Farguharson M.A. Daniel Stewart's College, Edinburgh.
 4. T. Mc Alpine 50 Windsor Road, Church End, Finchley, London.
 5. Walter G. Koper M.A., B.Sc., Ruby Villa, Sciennes Road, Edinburgh.
 6. Isabella B. Sutherland, M.A., Girls High School, Graff Reinet, ^{Transvaal} ~~Transvaal~~
 7. David Wallace M.A., B.Sc. Bell-Baxter School, Cupar.
- proposed by the Hon Secretary & seconded by Mr Russell.

A. J. Burgess.

2.12. Minutes of meeting held on Friday, 13th December, 1912 in the Royal Technical College, Glasgow, Mr Burgess, President, in the chair.

The following papers were read: -

1. a method of finding (i) the double points of a unicursal curve, (ii) unicursal quartics with three given double points by Dr R. J. T. Bell.
2. Integration of the $x-u$ differential equation in

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the problem of two bodies by Dr G. D. C. Stokes.

3. The point "0" and two associated cubics by F. G. Taylor communicated by A. Hutcheson.

Messrs Braash, Datta, Farquharson, Mc Alpine, Napier, Wallace, & Miss Sutherland were elected ordinary members of the society.

The following were candidates for membership:-

1. A. S. Morrison, M.A., B.Sc. 20 Queensborough Gardens, Glasgow
proposed by Dr Bell & seconded by Mr Archibald.

2. Wm White, B.Sc., A.R.C.S. Alan Glen's School, Glasgow.
proposed by Mr Mc Bride & seconded by Mr Archibald.

On the motion of the President Professor & Mrs Gibson were thanked for the hospitality they extended to the members of the society, & Professor Miller & the Governors of the Royal Technical College for their kindness in allowing the society the use of one of their rooms for this meeting.

W. J. Burgess.

10. I. 13

Minutes of meeting held on Friday, 10th January, 1913 in the Edinburgh Institution, 8 Queen St, Mr Burgess, President, in the chair.

The following papers were read:-

1. On a certain Algebraical Elimination by R. F. Davis

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2. Osculating conic at any point of a given plane curve by Prof J.C. Swaminarayan, both communicated by P. Bourne.
3. Diametral curves, & mean point-loci of systems of curves & surfaces by H. Levy, communicated by E. S. Williamson.

The following were candidates for membership: -

1. James Thomson, M.A., B.Sc. Gordon's College, Aberdeen
 2. Robert Wilson, M.A., B.Sc. Geo. Heriot's School, Edinburgh
proposed by Mr Bourne & seconded by Mr Gibb.
- Messrs Morrison & White were elected ordinary members of the society.

A.G. Burgess.

14. II. 13. Minutes of meeting held on Friday, 14th February, 1913 in the Edinburgh Institution, 8 Queen St, Mr Burgess, President, in the chair. The following papers were read.

1. A problem of Robert Simson by G. Philip.
 2. On the summation of $1^x + 2^x + 3^x + \dots + n^x$ by J.A. Donaldson
 3. Generalized form of Clairaut's equation by Prof Swaminarayan communicated by D. Gibb.
- Messrs Thomson & Wilson were elected ordinary members
John Miller, M.A., B.Sc. Mackie Academy, Stonehaven

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was a candidate for ordinary membership —
proposed by Mr McArthur, seconded by Mr McBrick.
Sly Burgess.

14. III 13.

Minutes of meeting held on Friday, 14th March,
1913 in the Royal Technical College, Glasgow,
Mr Burgess, President in the chair.

The following papers were read: -

1. Some optical constructions by Prof. D. Robertson,
communicated by Mr P. Bennett.
2. Generalisation of the "Orthopole" & allied
theorems by Dr Thiel.
3. Mathematical Induction by Dr Bevishead.

Mr H. Levy's paper on some Two-dimensional
Problems in Electricity, in the unavoidable
absence of the author, was held as read.

Mr John Miller, Stonehaven was elected an ordinary
member.

The following were candidates for membership

1. Wm Grieve, M.A., B.Sc. Boroughmuir H.G. School, Edinburgh
2. Alex. Sivewright M.A. " " " " "

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

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Miller & the Governors of the Royal Technical College for their kindness in allowing the society the use of one of their rooms for this meeting.

H. J. Burgess.

9.V.13. Minutes of meeting held on Friday, 9th May, in the Edinburgh Institution, 8 Queen St, Mr Burgess, President, in the chair. The following papers were read:-

1. Nonagons nonaply in perspective by Dr. W. P. Milne, communicated by Mr G. G. Arthur.
2. On a certain class of linear substitutions with common invariants, and an associated substitution of order Four by Mr D. G. Taylor, communicated by Mr T. M. MacRobert.

Messrs Grieve & Diverwright were elected ordinary members of the society.

The society decided to hold a colloquium in Edinburgh during the summer vacation & to invite Professor Conway of Dublin, & Sommerville of St Andrews, & Professor Whittaker of Edinburgh to deliver short courses of lectures. The President, Dr G. Philips, Professor Whittaker & the Secretary were appointed to carry out the arrangements for the colloquium.

H. J. Burgess.

Meeting: 9th May 1913

17.V.13.

A secondary Education Congress was held in University College, Dundee, on Saturday, 17th May, 1913, & at 3.30 pm. there was under the auspices of the Edinburgh Mathematical Society there was a meeting of those interested in the teaching of mathematics, when about 50 were present. Mr Burgess, President of the Society presided & Professor Whittaker of Edinburgh University gave an address on "Changes in University Mathematics during the last twenty years". On the motion of Professor Steggall, Dundee, Professor Whittaker was heartily thanked for his address.

W. Burgess.

13.VI.13.

Minutes of meeting held on Friday, 13th June, 1913, in the Edinburgh Institution, 8 Queen Street, Mr Burgess, President in the chair. The following papers were read: -

1. The "O" circle of the co-axial triad through the vertices of a triangle, and the "o" locus for a cyclic quadrangle by Wm F Milne.
2. A simple equal-area linkage
3. Model of a well known deformable triangular linkage
4. Graphical Harmonic analysis, all by

Meeting: 13th June 1913

E. M. Horsburgh.

The following were candidates for membership

1. W. B. Coutts, M.A., B.Sc.

George Heriot's School, Edinburgh.

2. Michael Oldham, M.A.

Boroughmuir H.S. School, Edinburgh.

3. Wm L. Marr M.A., B.Sc.

The High School for Girls, Aberdeen.

4. James Rodger B.A.

Higher Grade School, Berrisland.

5. Frederick Phillips, B.Sc., F.C.P., F.C.S.

University College Southampton.

6. John R. Airey, M.A., B.Sc. Principal,
The Technical Institute, West-Ham, London, E.

7. Edward Howard Smart, M.A.

Head of Math. Department, Birkbeck College, London.

The President proposed a vote of thanks to the Headmaster & Governors of the Edinburgh Institution for their courtesy in allowing the society to hold its meetings in the Institution during this session, & the secretary was instructed to convey the same to these gentlemen.

H. Burgess

8. 8. 13.

Under the auspices of the Edinburgh Mathematical Society, a Mathematical Colloquium was held in Edinburgh University during the week beginning Monday, 4th August & lasting five days. The following courses of lectures were delivered.

1. a course of five lectures by

A. W. Conway M. A., D. Sc.

Professor of Mathematical Physics, Univ. Coll., Dublin,
on "The Theory of Relativity & the New Physical Ideas of Space & Time"

2. a course of five lectures by

D. M. G. Sommerville, M. A., D. Sc.

Lecturer in Mathematics, University of St. Andrews,
on "Non-Euclidean Geometry and the Foundations of Geometry"

3. a course of five lectures & demonstrations by

E. T. Whittaker, Sc. D., F. R. S.

Professor of Mathematics, University of Edinburgh
on "Practical Harmonic Analysis, and Periodogram Analysis; an Illustration of Mathematical Laboratory Practice."

The success of the colloquium is strikingly shown by the fact that the number of members

Colloquium 4th August 1913

was 44, of whom no fewer than 20 were professors or lecturers in Universities or University Colleges, nearly 50 were engaged in mathematical teaching in secondary schools throughout England and Scotland, and the others were occupied with the practical applications of mathematics, as in the Census, Ordnance Survey, & Meteorology Departments of the Government.

By the courtesy of the University Court, several rooms were set aside as reception & writing rooms, & these were furnished for the comfort & convenience of members of the colloquium. The social side was also attended to, the members being invited to tea at the University Union on the Sunday afternoon while for the other evenings golf matches were arranged for at Brentofield, Kintonhall, Baberton, & Craiglockhart golf courses. Visits were also paid to the Geological Gardens, the Census office, & the new laboratories at Geo Heriot's School & at Edinburgh University.

A. J. Burgess

Edinburgh Mathematical Society.

THIRTY-FIRST SESSION, 1912-13.

THE SECOND ORDINARY MEETING for this Session will be held on *Friday, 13th December, at 7.30 p.m.*, in the ROYAL TECHNICAL COLLEGE, GEORGE STREET, GLASGOW (Room 294, Second Floor.)

BUSINESS.

1. A Method of finding (i) the double points of a Unicursal curve, (ii) Unicursal quartics with three double points Dr BELL.
2. Integration of the $x-u$ differential equation in the problem of two bodies Dr STOKES.
3. The point "O" and two associated cubics F. G. TAYLOR.
(To be communicated by A. HUTCHESON).

Professor and Mrs Gibson "At Home," 10 The University, Glasgow, from 5 to 7 p.m.

Office-Bearers for Session 1912-13.

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|--------------------------------------|-------|--|
| <i>President,</i> | . . . | A. G. BURGESS, M.A., F.R.S.E. |
| <i>Vice-President,</i> | . . . | Prof. JOHN MILLER, M.A., D.Sc., F.R.S.E. |
| <i>Hon. Secretary,</i> | . . . | PETER COMRIE, M.A., B.Sc., F.R.S.E. |
| <i>Hon. Treasurer,</i> | . . . | ALEX. D. RUSSELL, B.Sc., F.R.S.E., F.R.A.S. |
| <i>Editors of Proceedings,</i> | . . . | { ROBERT J. T. BELL, M.A., D.Sc.
\ NEIL M'ARTHUR, M.A., B.Sc. |
| <i>Editor of Mathematical Notes,</i> | | P. PINKERTON, M.A., D.Sc., F.R.S.E. |

Library Committee.

- DAVID GIBB, M.A., B.Sc., F.R.S.E.
 ERSKINE WILLIAMSON, M.A., B.Sc.
 HON. SECRETARY.

Committee.

- D. M. Y. SOMMERVILLE, M.A., D.Sc., F.R.S.E.
 J. A. M'BRIDE, B.A., B.Sc.
 ALEX. LEIGHTON, M.A., B.Sc.
 E. M. HORSBURGH, M.A., B.Sc., A.M.I.C.E.

Subscriptions are payable to the *Hon. Treas.*,
 ALEX. D. RUSSELL, B.Sc., F.R.S.E., F.R.A.S.,
 34 HEUGH STREET, FALKIRK.

PETER COMRIE, *Hon. Sec.*,
 19 CRAIGHOUSE TERRACE.

Committee at 7.20 (Room 239).

FINANCIAL STATEMENT FOR SESSION 1911-1912.

CAPITAL ACCOUNT.

	INCOME.		EXPENDITURE.	
1911.				
Nov.	Balance - - - - -	£115 1 0	1912.	
1912.			Nov.	
Nov.	Sale of <i>Proceedings</i> - - - -	7 11 8	Contribution to Cash Account - - - -	£3 15 0
	Sale of <i>Mathematical Notes</i> - -	2 0 0	Bookbinding for Library - - - -	9 16 6
		£124 12 8	Balance - - - - -	111 1 2

CASH ACCOUNT.

1911.			1912.		
Nov.	Balance - - - - -	£19 16 1	Nov.	Printer's Account - - - - -	£64 14 0
1912.				Bookbinder's Account - - - - -	1 18 0
Nov.	160½ Annual Subscriptions - - -	60 2 6		Secondary Education Congress - - -	1 1 0
	Contribution from Capital Account	3 15 0		Insurance Premium - - - - -	0 5 0
	Bank Interest - - - - -	3 13 5		Janitor's Fees - - - - -	1 4 0
		£87 7 0		Bank Charges - - - - -	0 2 4
				Stationery - - - - -	1 5 0
				Postages and Sundry Expenses - - -	2 0 8
				Balance - - - - -	14 17 0
					£87 7 0

P. PINKERTON, }
NEIL M'ARTHUR, } *Auditors.*

ALEX. D. RUSSELL, *Hon. Treasurer.*