

# EMS Minutes: Volume 1: pages 279 to 287

## 1913-14: Thirty second session

Session 1913-1914.

### Thirty - Second Session

14.11.13. Minutes of meeting held on Friday, 14<sup>th</sup> Nov 1913, in the University, Edinburgh, Mr Burgess, President, in the chair. The following papers were read

1. On a class of singularities discussed by Dr Sprague by A. B. Basset, communicated by the Secretary.
2. On the intersections of the six trisectors of each of the angles of any triangle by F. G. Taylor & W. L. Harr.

Mr Russell, Hon. Treasurer, submitted his report~~s~~ which showed that  $213 \frac{4}{5}$  annual subscriptions had been received & that there was a total balance to the credit of the Society of £129-4-5.

On the motion of the President the report was adopted & Mr Russell thanked for his services.

Mr Gibb, Hon Librarian read his report which showed that 35 periodicals had been received

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during the year in exchange for the Society's Proceedings & 6 books & pamphlets had been presented to the Society by their authors. He had completed a card catalogue of the books & periodicals in the library. The binding of the periodicals had been continued. The report was adopted, Mr Gibb thanked for his services & it was agreed to replace missing parts of the periodicals so that the binding of back numbers might be completed.

The following Office-bearers were elected for Session 1913-14

President Prof John Miller, M.A., D.Sc., F.R.S.E.

Vice President Neil McArthur, M.A., B.Sc.

Hon Secretary Peter Comrie, M.A., B.Sc., F.R.S.E.

Hon Treasurer Mr. D. Russell, B.Sc., F.R.S.E., F.R.A.S.

Editors of Proceedings { Robert J. T. Bell, M.A., D.Sc.  
 & Dr. G. Sommerville, M.A., D.Sc., F.R.S.E.

Editor of Math. Notes P. Pinkerton, M.A., D.Sc., F.R.S.E.

Library Committee David Gible, M.A., B.Sc., F.R.S.E.

Erskine Williamson, M.A., B.Sc.

Hon. Secretary.

Committee A. G. Burgess, M.A., F.R.S.E.

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

George Philip, M.A., D.Sc.

G. D. G. Stokes, M.A., D.Sc.

Messrs Boutts, Oldham, Marr, Rodger, Phillips,  
Airey, & Smart were elected ordinary members.  
The following were candidates for membership.

1. Professor G. G. Barkla, D.Sc., F.R.S. Edinburgh University  
proposed by Professor Whittaker & seconded by Dr. Philip
2. Charles Campbell, M.A., Glasgow Academy
3. Margaret C. Fraser, M.A., B.Sc., Newnham College, Cambridge
4. George Frecheville
5. George Hamilton, M.A., George Heriot's School, Edinburgh.
6. Prof. George Hatjidakis, Ph.D. Piraeus, Greece.
7. J. P. Johnstone, M.A., Sc.D., Dublin
8. Alex. B. Manning, M.Sc., B.Sc., Rotherham
9. Henry Lloyd Meadows, M.A., F.R.S., Ballyrane, Co Wicklow.
10. Captain A. C. Robinson, R.E. Edinburgh.
11. Alfred Rosenblatt, Ph.D. Krakow, Austria.
12. The Right Hon. James Parker Smith, P.C., J.P., D.L., Kirkcubright.
13. James Strachan, M.A., B.Sc., H. M. S. Darlington
14. Alex. S. Tennant, M.A., Edinburgh.
15. Wm Watson M.A., B.Sc., Heriot Watt College, Edinburgh.
16. Andrew Young M.A. Leith.  
proposed by the Secretary & seconded by Dr Philip.
17. George Shearer, M.A., B.Sc., Edinburgh University  
proposed by Dr Philip & seconded by Mr. Williamson.

John Miller

12.12.13.

Minutes of meeting held on Friday, 12<sup>th</sup> Dec. 1913  
in the Mathematical Classroom, The University, Glasgow,  
Professor Miller, President in the chair. The  
following papers were read:-

1. Notes on Spherical Harmonics by Dr. John Dougall.
2. Napier's Logarithms by Professor G. A. Gibson.
3. Some results concerning homogeneous integral - equations  
by Pierre Humbert, communicated by Professor Whittaker.

The seventeen gentlemen proposed for membership at  
last meeting were elected members of the society. The  
following were candidates for membership

1. James Crawford M.A. Castle View, Kilbirnie  
proposed by Mr McArthur, seconded by Dr. Bell
2. W. G. McEwen, M.A., 69 Warrender Park Rd, Edinburgh.
3. E. Lindsay Duce, M.A., B.Sc. of Calder, 3 Marchmont St, Edinburgh.
4. Pierre Humbert of Le Havre, 17 Howe St. Edinburgh.  
proposed by Professor Whittaker, seconded by Mr Gibb.

On the motion of the president Professor & Mrs  
Gibson were thanked for the hospitality they  
extended to members of the society, & the  
University Court for granting the use of a room  
for this meeting.

John Miller

Meeting: 12th December 1913

9.1.14.

Minutes of meeting held on Friday, 9th January 1914, in the University, Edinburgh, Professor Miller, President in the chair. The following papers were read: -

1. Note on the axes of a normal section of the enveloping cylinder of a conicoid by Dr R.J.T. Bell.
  2. Notes on the equation of the Parabolic Cylinder by Mr Arch. Milne.
  3. On the continued fractions which represent Hermite's functions and other functions defined by differential equations by Prof. Whittaker.
- Messrs Crawford, Mr Ewen, Ince, & Humbert were elected members of the society.

The following were candidates for membership.

1. Robert Comline, B.A., Daniel Stewart's College, Edinburgh.  
proposed by Prof. Miller, & seconded by the Secretary.
2. Duncan R. Wilson, M.A., B.Sc., 19 Greenbank Ter. Edinburgh  
proposed by the Secretary & seconded by Prof. Whittaker.

On the motion of the President a hearty vote of thanks was awarded to Professor & Mrs Whittaker for their hospitality to the members of the society.

John Miller.

Meeting: 9th January 1914

13.2.14. Minutes of meeting held on Friday, 13<sup>th</sup> February, 1914, in the University, Edinburgh, Professor Miller, President, in the chair. The following papers were read: -

1. Concurrency of lines connected with a triangle by Mr A. G. Burgess.
2. Note on Gauss' proof of the reciprocity of parallelism by Dr Sommerville
3. Description of a perpetual calendar by Dr. Sommerville.
4. On the quasi-periodic solutions of Mathieu's differential equation by Mr A. W. Young.

Messrs Bouline & Wilson were elected members of the society.

On the motion of the President a hearty vote of thanks was awarded to Professor & Mrs Whittaker for their hospitality to the members of the society.

John Miller

13.3.14 Minutes of meeting held on Friday, 13<sup>th</sup> March, 1914, in the University, Glasgow, Professor Miller, President, in the chair. The following papers were read

1. Some graphical methods for determining "Centres of Gravity" by Dr R. F. Muirhead.

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2. Some Theorems analogous to Newton's Theorems on symmetric functions, with elementary proofs by Dr Muirhead.

3. On certain formulae connected with the function  $(\cos n\theta - \cos n\alpha) / (\cos\theta - \cos\alpha)$  by Mr D. G. Taylor, communicated by ~~F. G. G.~~ Mr A. S. Morrison

4. On summable series & Bernoullian numbers by Prof D. K. Picken, communicated by Mr. J. Paul J. Gasstang M. A., Sunhill House, Petersfield, Hants. was a candidate for membership.

On the motion of the secretary the society resolved to hold a short colloquium in Edinburgh immediately after the Napier Tercentenary Celebration in July.

On the motion of the president - Professor & Mrs Gibson were thanked for their hospitality to the members of the society & the University Court for granting the use of a room for this meeting.

John Miller

8.5.14.

minutes of meeting held on Friday, 8<sup>th</sup> May 1914, in the University, Edinburgh, Professor Miller, President, in the chair.

The president referred to the death of Dr John S. Mackay and the following ~~minute~~ <sup>motion</sup> was ordered to be inserted in the minutes, and a copy sent to Dr Mackay's representatives.

"The members of the Edinburgh Mathematical Society hereby record their deep sorrow for the death of Dr John S. Mackay. They remember with gratitude the great services he rendered as one of the founders of the society & as its first President. They would join in the universal tribute of respect which is being paid to one whose unflinching zeal & ~~consummate~~ consummate ability will remain a lasting memory".

The following papers were read:-

1. Morley's Trisection Theorem:-

(a) Its relation to the Hessian axis & the circumcentre by F. G. Taylor (communicated by Mr W. S. Marr.)

(b) An extension and its relation to the circle of Apollonius by Mr W. S. Marr.

2. On Simson's Line and related theory: an exercise in geometric generality by Prof D. K. Pickern (communicated by Mr A. W. Young.)

Meeting: 8th May 1914

3. On a theorem in continued fractions equivalent to Riemann's transformation of the P-function by Mr E. Lindsay Ince.

Mr W. S. Galton B.A., B.Sc.

George Watson's Boys' College, Edinburgh  
was proposed for membership of the society.

John Miller

12.6.14. Minutes of meeting held on Friday, 12<sup>th</sup> June 1914.  
in the University Edinburgh, Neil McArthur,  
Vice President in the chair.

The following papers were read:—

1. On the attraction of spherical shells, and a generalisation for Ellipsoidal shells by Professor A. Gray, communicated by Dr Bell.
2. On the general solution of Mathieu's equation by Professor Whittaker.
3. Napier's *De Arte Logistica* by Dr G. Philip.

Mr W. S. Galton was duly elected a member of the society.

Miss Jane Brumlish, L.L.A.

Our Lady & St Francis Secondary School  
Charlotte St. Glasgow

was proposed for membership of the society.  
John Miller

Meeting: 12th June 1914

# Edinburgh Mathematical Society.

THIRTY-SECOND SESSION, 1913-14.

THE SECOND ORDINARY MEETING for the Session will be held on *Friday, 12th December, at 7 p.m.*, in the MATHEMATICAL CLASSROOM, THE UNIVERSITY, GLASGOW.

## BUSINESS.

1. Notes on Spherical Harmonics - Dr JOHN DOUGALL.
2. Napier's Logarithms - - - Professor G. A. GIBSON.
3. On some results concerning homogeneous integral-equations - - PIERRE HUMBERT.

Professor and Mrs Gibson "At Home," to The University, Glasgow, from 5.30 to 7 p.m.

## Office-Bearers for Session 1913-1914.

<i>President</i>	- - -	Prof. JOHN MILLER, M.A., D.Sc., F.R.S.E.
<i>Vice-President</i>	- - -	NEIL M'ARTHUR, M.A., B.Sc.
<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. DUNCAN M. Y. SOMMERVILLE, M.A., D.Sc., F.R.S.E.
<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.

A. G. BURGESS, M.A., F.R.S.E.  
E. M. HORSBURGH, M.A., B.Sc., A.M.I.C.E.  
GEORGE PHILIP, M.A., D.Sc.  
G. D. C. STOKES, M.A., D.Sc.

Subscriptions are payable to the *Hon. Treas.*,  
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34 HEUGH STREET, FALKIRK.

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

Committee Meeting at 6.55.

## FINANCIAL STATEMENT FOR SESSION 1912-1913.

INCOME.		CAPITAL ACCOUNT.	EXPENDITURE.		
1912. Nov.	Balance . . . . .	£111 1 2	1913. Nov.	Contribution to Cash Account -	£2 12 6
1913. Nov.	Two Life Subscriptions - . . . . .	8 0 0		Reproduction of Vols. V. and VII. of <i>Proceedings</i> - . . . . .	20 0 0
	Sale of <i>Proceedings</i> - . . . . .	7 10 9		Binding do. - . . . .	1 7 7
	Sale of <i>Mathematical Notes</i> - . . . . .	1 10 0		Bookbinding for Library - . . . . .	3 14 4
	Surplus from <i>Colloquium</i> - . . . . .	7 11 8		Balance - . . . . .	107 19 2
		£135 13 7			£135 13 7

CASH ACCOUNT.		EXPENDITURE.			
1912. Nov.	Balance . . . . .	£14 17 0	1913. Nov.	Printer's Account - . . . . .	£69 14 2
1913. Nov.	21 <sup>4</sup> / <sub>8</sub> Annual Subscriptions - . . . . .	80 3 6		Bookbinder's Account - . . . . .	2 1 1
	Contribution from Capital Account	2 12 6		Secondary Education Congress - . . . . .	0 16 0
	Bank Interest - . . . . .	3 14 7		Insurance Premium - . . . . .	0 5 0
				Rent of Room - . . . . .	3 0 0
				Janitor's Fees - . . . . .	1 8 0
				Bank Charges - . . . . .	0 6 10
				Stationery - . . . . .	0 9 0
				Postages and Sundry Expenses - . . . . .	2 2 0
				Balance - . . . . .	21 5 6
		£101 7 7			£101 7 7

P. PINKERTON, } *Auditors.*  
A. G. BURGESS, }

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