

# EMS Minutes: Volume 1: pages 311 to 316

## 1917-18: Thirty sixth session

Session 1917-18

Thirty - Sixth Session.

9. 11. 17

Minutes of meeting held on Friday, 9<sup>th</sup> Nov. 1917, in the University, Edinburgh, Mr Comrie, President, in the Chair. The following papers were read:-

1. The Apolar Locus of Two Tetrads of Points on a Conic, by Dr. W. P. Milne, communicated by Dr A. Milne;
2. The Brocard and Tucker Circles of a Cyclic Quadrilateral, by F. G. W. Brown, communicated by Miss E. Cairman.

Mr Horsburgh, Hon. Treasurer, submitted his report which showed that there was a total balance in favour of the Society of £105.7.8. The printer's account for session 1916-17 had not, however, been received. On the motion of the Chairman the report was adopted and Mr Horsburgh thanked for his services.

The following office-bearers were elected for session 1917-18:-

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

Meeting: 9th November 1917

Vice-President	Neil McArthur, M.A., B.Sc.
Hon. Secretary	Peter Ramsay, M.A., B.Sc., F.R.S.E.
Hon. Treasurer	E. M. Horsburgh, M.A., B.Sc., Assoc. M. Inst. C.E.
Editors of Proceedings	R. J. J. Bell, M.A., D.Sc., F.R.S.E. Arch. Milne, M.A., D.Sc., F.R.S.E.
Editor of Mathematical Notes	G. D. C. Stokes, M.A., D.Sc.
Library Committee	David Gibb, M.A., B.Sc., F.R.S.E. Glenny Smeal, B.Sc. Eleanor Cairman, M.A.
Committee	Professors E. J. Whittaker, Sc.D., F.R.S. Edward Blades, M.A., B.Sc. Cargill G. Knott, D.Sc., F.R.S.E. W. L. Thomson, M.A.

Peter Comrie.

4.12.17.

Minutes of meeting held on Friday, 14<sup>th</sup> Dec. 1917 in the University, Edinburgh, Mr Comrie, President, in the chair. The following papers were read:-

1. Nicole's contribution to the foundation of the calculus of finite Differences, by C. Swedie, communicated by E. M. Horsburgh,
2. On Poisson's Integral-equation, by Professor Whittaker.

Meeting: 14th December 1917

- The following were candidates for membership -
1. Miss M. A. E. M. Dallas, M.A., Ellangowan, Portobello,
  2. G. J. Lidstone, F.I.A., F.F.A., F.A.S., 8 Eglinton Crescent, Edinburgh;
  3. Walter Borland, F.F.A., A.I.A., 3 Lygon Road, Edinburgh.

Peter Courie.

11.1.18

Minutes of meeting held on Friday, 11<sup>th</sup> January, 1918 in the University, Edinburgh, Mr Courie, President, in the chair. The following papers were read:-

1. On a Difference - Equation due to Stirling, by Mrs E. Cairman;
  2. On Bernoulli's and Fürstenau's methods for the solution of Algebraic Equations, by Professor Whittaker;
  3. An Approximate Formula for the length of an Arc of a Suspended Rope, by E. M. Horsburgh.
- Miss Dallas and Messrs. Lidstone and Borland were elected members of the Society.

Miss Catherine W. M. Sheriff, M.A., B.Sc., Mathematical Department, University of St Andrews, was proposed for membership, on the motion of Mr Horsburgh, seconded by Professor Whittaker.

Peter Courie.

Meeting: 11th January 1918

8.2.18.

Minutes of meeting held on Friday, 8<sup>th</sup> Feb. 1918, in the University, Edinburgh, Mr Cowrie, President, in the chair. The following papers were read:-

1. The Parameter Method of Iteration, by G. Smeal;
2. A new form of the Remainder in Newton's Interpolation Formula, by Miss E. Paiman.

Miss Catherine W.M. Sheriff was elected an ordinary member of the society.

The following were candidates for membership:-

Engineer-Lieutenant A. B. Blake, R.N., H.M.S. Shannon, G.P.O., London;

Allan J. Low, M.A., Naval Instructor, H.M.S. Shannon, G.P.O., London;

Stewart Macnaughten, F.I.A., 3 George Street, Edinburgh.  
Peter Cowrie.

8.3.18.

Minutes of meeting held on Friday, 8<sup>th</sup> March, 1918, in the University, Edinburgh, Mr Cowrie, President, in the Chair. The following papers were read:-

1. Note on the Quaternion theory of Confovals, by Dr. C.G. Knott;
2. Geometrical notes on the accelerations of points of a rigid plane body moving in its own plane, by Dr. R.F. Muirhead, - communicated by

Meeting: 8th February 8th March 1918

E. M. Horsburgh.

Engineer-Lieutenant A. B. Blake and Messrs. Low and Macnaughten were elected ordinary members of the Society.

Peter Courie.

10.5.18.

Minutes of meeting held on Friday, 10<sup>th</sup> May, 1918, in the University, Edinburgh, Mr Courie, President, in the chair.

The following papers were read:-

1. (a) Some applications of Spherical Geometry to Geometrical Optics,  
(b) Note on the minimum duration of twilight,  
by Professor D. M. G. Somerville, communicated by Professor Whittaker;
2. Note on the radical axis of intersecting circles, by Dr J. H. Miller, communicated by the secretary;
3. A graphical method of determining the maximum bending moment for a rolling load, by Dr R. F. Muirhead, communicated by Dr Horsburgh.

Professor W. H. Metzler, Ph.D., Syracuse University, Syracuse, N.Y. was proposed for ordinary membership of the Society, on the motion of the secretary, seconded by Professor Whittaker.

Adm. Miller.

Meeting: 10th May 1918

14.6.18.

Minutes of meeting held on Friday, 14<sup>th</sup> June, 1918,  
in the University, Edinburgh, Dr Milne in the chair.

The following papers were read:-

1. Relations connected with Generalised <sup>Differentiation,</sup> ~~Coefficients,~~  
by Miss E. Cairman;
2. Some new Expansions in Series of Polynomials,  
by Professor Whittaker.

Professor W. H. Methyls was elected an ordinary member  
of the Society.

On the motion of the Chairman, Professor and  
Mrs Whittaker were thanked for their hospitality to  
the members of the Society during the session.

P. Bonvie

Meeting: 14th June 1918

## FINANCIAL STATEMENT FOR SESSION 1916-17.

### CAPITAL ACCOUNT.

<i>Nov. 1916</i>	Balance	-	-	-	-	£93 16 0		<i>Nov. 1917</i>	Payment to Cash Account	-	-	-	-	£3 0 0
	<i>to</i>	Interest	-	-	-	2 1 4			Balance	-	-	-	-	101 1 4
<i>Nov. 1917</i>		2 Life Subscriptions	-	-	-	8 4 0								
						£104 1 4								£104 1 4
						£104 1 4								£104 1 4

### CASH ACCOUNT.

<i>Nov. 1917</i>	Bank Interest	-	-	-	-	£1 11 11		<i>Nov. 1916</i>	Deficit	-	-	-	-	£38 0 5
	Discount	-	-	-	-	1 8 1		<i>to</i>	Bookbinder's Account	-	-	-	-	2 4 9
	Annual Subscriptions	-	-	-	-	37 13 0		<i>Nov. 1917</i>	Rooms and Janitor's Fees	-	-	-	-	1 10 0
	Sale of <i>Proceedings</i>	-	-	-	-	3 18 9			Bank Charges	-	-	-	-	0 1 0
	Payment from Capital Account	3	0	0		3 0 0			Insurance	-	-	-	-	0 7 0
						£17 11 9			Postages and Sundries	-	-	-	-	1 2 3
						£17 11 9			Balance	-	-	-	-	4 6 4
						£17 11 9								£47 11 9

P. COMRIE, }  
 ARCH. MILNE, } *Auditors.*

E. M. HORSBURGH,  
*Hon. Treasurer.*

# Edinburgh Mathematical Society.

THIRTY-SIXTH SESSION, 1917-18.

THE SECOND ORDINARY MEETING for the Session  
will be held on *Friday, 14th December, at 5.30 p.m.*,  
in the RESEARCH ROOM OF THE MATHEMATICAL  
INSTITUTE, THE UNIVERSITY, EDINBURGH.

## BUSINESS.

1. Nicole's Contribution to the Foundation of the  
Calculus of Finite Differences - - - C. TWEEDIE.  
(Communicated by E. M. HORSBURGH.)
2. An Asymptotic Representation of the Exponential  
Function - - - - - Prof. E. T. WHITTAKER.

*Tea will be served in the Institute from 4.45 p.m.*

## Office-Bearers for Session 1917-18.

*President* - - - PETER COMRIE, M.A., B.Sc., F.R.S.E.  
*Vice-President* - - - NEIL M'ARTHUR, M.A., B.Sc.  
*Hon. Secretary* - - - PETER RAMSAY, M.A., B.Sc., F.R.S.E.  
*Hon. Treasurer* - - - E. M. HORSBURGH, M.A., B.Sc., Assoc. M. Inst. C.E.  
*Editors of Proceedings* - { R. J. T. BELL, M.A., D.Sc., F.R.S.E.  
ARCHIBALD MILNE, M.A., D.Sc., F.R.S.E.  
*Editor of Mathematical Notes*, G. D. C. STOKES, M.A., D.Sc.

### *Library Committee.*

DAVID GIBB, M.A., B.Sc., F.R.S.E.  
GLENNY SMEAL, B.Sc.  
ELEANOR PAIRMAN, M.A.

### *Committee.*

Professor E. T. WHITTAKER, Sc.D., F.R.S.  
EDWARD BLADES, M.A., B.Sc.  
CARGILL G. KNOTT, D.Sc., F.R.S.E.  
W. L. THOMSON, M.A.

Subscriptions are now due, and should be paid to the Hon. Treas.,  
E. M. HORSBURGH, M.A., B.Sc., Assoc. M. Inst. C.E.,  
11 GRANVILLE TERRACE, EDINBURGH.

PETER RAMSAY, *Hon. Sec.*,  
63 COMISTON DRIVE.

Committee Meeting at 5.15.

[OVER.]