1914-15: Thirty third session

Session 1914 - 1915 -

Thirty - Third Session.

13.11.14. Minutes of meeting held on Friday, 13th Nov. 1914, in the University, Edinburgh, Professor Miller, President, in the chair. The following papers were read :—

1. The convergence of the series in Mathieu's function by G. N. Watson communicated by Prof Whittaker.

2. Taylor's cubics associated with a triangle in non-euclidean geometry by Dr D. M. Y. Sommerville.

3. The elliptic cylinder functions of the second kind by E. Lindsay Ince.

Mr Russell, Hon. Treasurer submitted his report which showed that there was a total ~~credit~~ balance to the credit of the society of £112-19-4. 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 34 periodicals had been received in exchange for the society's Proceedings & 15 books and pamphlets had been presented to the society by their authors.

Meeting: 13th November 1914

The report was adopted & Mr Gibb thanked for his services.

The following office bearers were elected for session 1914-1915.

President :- Prof. E.T. Whittaker, Sc.D., F.R.S.

Vice-President : — Neil McArthur, M.A., B.Sc.

Hon. Secretary : - Peter Comrie, 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 { R.J.T. Bell M.A., D.Sc.
D.M.Y. Sommerville, M.A., D.Sc. F.R.S.E.

Library Committee :- David Gibb, M.A., B.Sc., F.R.S.E.
E. Lindsay Ince, M.A., B.Sc.
Hon. Secretary.

Committee :- { Prof John Miller, M.A., D.Sc., F.R.S.E.
E. M. Horsburgh, M.A., B.Sc., A.M.d.C.E.
George Philip, M.A., D.Sc.
G. D. C. Stokes, M.A., D.Sc.

Miss Crumlish was elected an ordinary member.

The following were candidates for membership

1. G. N. Watson, M.A, Trinity College, Cambridge
2. A. W. H Thompson, B.A. Bayswater, London W.
3. R.K. Butchart ~~Esq~~, B.Sc. University College, Dundee
4. Robert T Dunbar, Camperdown Place, Broughty Ferry.
5. Lester R. Ford, M.A. 103 Newington Road, Edin.
6. Glenny Sneal, B.Sc., c/o Badenoch 14 Viewforth,"

2

On the motion of the President - Professor &
Mrs Whittaker were thanked for the hospitality
they extended to members of the society.

E. T. Whittaker

Minutes of Meeting held on Friday, 11th
December, 1914, in the University Glasgow,
Professor Whittaker, President, in the chair.
The following papers were read :—
1. The Geometry of Space by A. W. H Thompson,
   communicated by T. M. MacRobert
2. On a class of linear differential equations whose
   solutions satisfy integral equations by Prof Whittaker.
3. A theorem on the contact of circles leading up
   to Feuerbach's and Hart's theorem by Dr John Dougall.
Messrs Watson, Thompson, Butchart, Dunbar,
Ford & Smeal were elected ordinary members.
G. D. C. Stokes, M.A., D.Sc. was appointed
Editor of Mathematical Notes in place of Dr
Pinkerton who had resigned.
D. M. Y. Sommerville, M.A., D.Sc., F.R.S.E. resigned the
joint editorship of the Proceedings on his appointment
to the chair of Mathematics in Wellington, New Zealand,
& it was remitted to the committee to nominate a

Meeting: 11th December 1914

successor.

The Secretary on behalf of the committee proposed that Mr Charles Tweedie be elected an Honorary member.

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

E. T. Whittaker

15.1.15.

Minutes of meeting held on Friday, 15 January, 1915 in Edinburgh University, Professor Whittaker, President in the chair. The following papers were read:—

1. Vector Errors by Henry Briggs.

2. Solid Geometry by A. W. H. Thompson, communicated by T. M. MacRobert.

3. On an integral equation whose solutions are the Legendre polynomial by Professor Whittaker.

4. Easy proof of Von Staudt's Theorem by Dr W. P. Milne, communicated by the secretary.

Andrew Young M.A., was elected joint editor of Proceedings in place of Dr Sommerville.

T. M. MacRobert was elected a member of committee in place of Dr. Stokes.

Mr Charles Tweedie was elected an Honorary member of the society.

Meeting: 15th January 1915

12.2.15. Minutes of meeting held on Friday, 12th February, 1915 in the University, Edinburgh, Professor Whittaker, President in the chair. The following papers were read :-

1. Note on Suspension Bridge Catenaries by Prof. G. H. Bryan, communicated by E. M. Horsburgh.
2. On a class of Integral Equations by Pierre Humbert, communicated by Professor Whittaker.
3. The roots of the function $W_{K,m}(Z)$ by Arch. Milne
4. The Theorem of Moments in Rigid Dynamics by Dr C. G. Knott.
5. On Speroidal Harmonics by Edward Blades.

Miss Grace T. Thomson M.A., Ardenlea, Perth was proposed for membership.

L.T. Whittaker

12.3.15 Minutes of meeting held on Friday, 12th March 1915 in the University, Glasgow, Professor Whittaker, President in the chair. The following papers were read :-

1. Solid Geometry by A. W. H. Thompson.
2. A simple link apparatus for the mechanical solution of quadratic equations by Dr. G. D. C. Stokes.
3. New formulae about the theory of the series of alternate sign by F. Tavani, communicated by A. S. Morrison.

Miss Thomson was elected an ordinary member of the society.

Meetings: 12th February 12th March 1915

5

14.6.15

Minutes of meeting held on Friday, 14th May, 1915, in Edinburgh University, Professor Whittaker, President, in the chair. The following papers were read:—

1. On the roots of a derivative of a rational function by Mr L. R. Ford.

2. Study of the Life and Writings of Colin Maclaurin by Mr Charles Tweedie, communicated by Mr J. Gibb.

3. Recurrence formulae for the functions which represent solutions of the differential equation $\frac{d^2u}{dx^2} - a^2 u = \frac{h(h+1)}{x^2} u$. by Mr H. T. Flint, communicated by Mr A. Milne.

4. Exhibition of two simple nomograms by Prof Whittaker.

The following were candidates for membership:—

1. H. W. Richmond, M.A., F.R.S., King's College, Cambridge.

2. F. G. W. Brown, B.Sc., F.C.P., 25 Wellwood Road, Goodmayes, Essex.

E. T. Whittaker

11.7.15

Minutes of meeting held on Friday, 11th June 1915, in Edinburgh University, Professor Whittaker, President in the chair. The following papers were read:—

1. On spheroidal harmonics & allied functions by G. B. Jeffrey, communicated by Ed. Blades.

2. Determinants connected with the

Meetings: 14th May 11th June 1915

periodic solutions of Mathieu's equation by
A. G Burgess.

3. On the oscillation functions derived from a dis-continuous function by L. R. Ford.

4. The angle between two lines in trilinears by W. L. Marr.

Messrs Richmond & Brown were elected ordinary members.

The following were candidates for membership:-

1. E. P. Adams   Princeton, New Jersey. U.S.A.
2. S. A. Corey   Wapello Coal Company, Hiteman, Iowa.
3. Miss Charlotte C. Barnum Ph.D., 766 Main St. Stamford. Conn. U.S.A.

The secretary gave notice that at the next meeting of the society he would move that a lifemembership be instituted at a fee of £5 = 5/

On the motion of the secretary Professor & Mrs Whittaker were thanked for their hospitality to the members of the society during the session.

E. T. Whittaker

Edinburgh Mathematical Society.

THIRTY-THIRD SESSION, 1914–15.

THE SECOND ORDINARY MEETING for the Session will be held on *Friday, 11th December*, at *7 p.m.*, in the MATHEMATICAL CLASSROOM, THE UNIVERSITY, GLASGOW.

BUSINESS.

1. The Geometry of Space - - - - - A. W. H. THOMPSON.
   (To be communicated.)

2. On a class of linear differential equations whose solutions satisfy integral equations - - Prof. E. T. WHITTAKER.

3. A theorem on the contact of circles leading up to Feuerbach's and Hart's theorem - - Dr JOHN DOUGALL.

Professor and Mrs Gibson "At Home," 10 The University, Glasgow, from 5.30 to 7 p.m.

Office=Bearers for Session 1914=1915.

President - - -	Prof. E. T. WHITTAKER, Sc.D., F.R.S.
Vice-President - -	NEIL M'ARTHUR, M.A., B.Sc.
Hon. Secretary - -	PETER COMRIE, 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.
	DUNCAN M. Y. SOMMERVILLE, M.A., D.Sc., F.R.S.E.

Library Committee.

DAVID GIBB, M.A., B.Sc., F.R.S.E.
E. LINDSAY INCE, M.A., B.Sc.
HON. SECRETARY.

Committee.

Prof. JOHN MILLER, M.A., D.Sc., 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.,*
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 Meeting at 6.15.

FINANCIAL STATEMENT FOR SESSION 1913-1914.

CAPITAL ACCOUNT.

INCOME.						EXPENDITURE.				
1913. Nov.	Balance	£107	19	2		1914. Nov.	Contribution to Cash Account	£5	5	0
1914. Nov.	Two Life Subscriptions	8	0	0			Subscription to Napier Tercentenary Celebration	2	0	0
	Sale of *Proceedings*	15	10	7			Balance	125	15	10
	Sale of *Mathematical Notes*	1	11	1						
		£133	0	10				£133	0	10

CASH ACCOUNT.

1913. Nov.	Balance	£21	5	6		1914. Nov.	Printer's Account	£88	10	0
1914. Nov.	142 Annual Subscriptions	53	5	0			Bookbinder's Account	2	2	9
	2 Part Subscriptions	0	4	0			Secondary Education Congress	1	1	0
	Contribution from Capital Account	5	5	0			Insurance Premiums	0	8	3
	Bank Interest	3	11	4			Rooms and Janitor's Fees	1	5	0
	Balance	12	16	6			Bank Charges	0	2	7
							Stationery, Postages, and Sundries	2	17	9
		£96	7	4				£96	7	4

Balance in favour of Society, £112 19s. 4d.

GEORGE PHILIP,
G. D. C. STOKES, } *Auditors.*

ALEX. D. RUSSELL,
Hon. Treasurer.