Session 1918 – 19.

Thirty – Seventh Session.

8.11.18.   Minutes of meeting held on Friday, 8th Nov. 1918 in the University, Edinburgh, Mr Cowrie, President, in the Chair.

Professor Whittaker, having referred to the death of Mr Walter Borland, moved that a suitable minute be prepared by the President and Secretary, and that a copy of this minute be sent to Mrs Borland. This was agreed to, unanimously.

The following minute was duly prepared: The Edinburgh Mathematical Society desires to place on record its sense of the loss it has sustained through the death of Mr Walter Borland, F.F.A., A.I.A., one of the most conspicuous among the younger actuaries in Edinburgh. During the brief period he was connected with the Society he showed a keen interest in its work, and there was every expectation that he would prove a valuable member and would enrich its

Meeting: 8th November 1918

Proceedings with contributions of worth. He had already won a high reputation as a worker and investigator in actuarial mathematics: his untimely death has cut short a career of great promise.

The members of the Society unite in expressing their deep sympathy with Mrs Borland in her sorrow.

A paper was read by Professor Steggall, entitled "Notes on the homographic transformation of the cubic and biquadratic".

The following office-bearers were elected for session 1918-19 :-

President, C. G. Knott, D.Sc., LL.D., Gen. Sec. R.S.E.

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., D.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 Sneal, B.Sc.

Hon. Secretary. Peter Ramsay

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

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

Edward Blades, M.A., B.Sc.

W. L. Thomson, M.A.

Dr Horsburgh, Hon. Treasurer, submitted his report, which showed a balance in the Capital Account of £87-5-11 and in the Cash Account of £21-9-9. On the motion of the Chairman the report was adopted and Dr Horsburgh thanked for his services.

Mr Smeal submitted the librarian's report, which stated that most of the usual periodicals had been received, at irregular intervals, but that the issue of others had been temporarily suspended. On the motion of the Chairman the report was adopted and Mr Smeal thanked for his services.

Miss Rhoda R.C. Buchanan, M.A., Sherwood, South Lauder Road, Edinburgh, was proposed for ordinary membership of the Society.

C.G.Knott

President

Minutes of meeting held on Friday, 13th December, 1918 in the University, Edinburgh, Dr Knott, President, in the Chair.

The President read a letter which he had received from the President of the Société Mathématique de France, offering congratulations on the termination of hostilities.

The following papers were read:-

1. The Stirling Numbers and Polynomials, by C. Tweedie, communicated by Dr. A. Milne.

2. A Theorem of Sonine in Bessel Functions, with two extensions to Spherical Harmonics, by Dr J. Dougall.

3. Note on the complete Jacobian elliptic integrals, by F. Bowman.

Miss Rhoda R. C. Buchanan was elected an ordinary member of the Society.

The following were candidates for membership:-

Miss Nora Calderwood, 8 Argyle Place, Edinburgh;

Miss Dorothy A. Reid, Dunscroft, Liberton.

C. G. Knott
President

Meeting: 13th December 1918

19.

Minutes of meeting held on Friday, 10th January, 1919, in the University, Edinburgh, Dr Knott, President, in the chair.

The following papers were read :-

1. A Mechanical Solution of a Differential Equation of Torsion, by Dr Horsburgh.

2. Note on the Intersection of a Plane Curve and its Hessian at a Multiple Point,

and 3. Note on the Formula for the Radius of the Circumsphere of a Tetrahedron in terms of the Edges, by F. Bowman, communicated by the Secretary.

Miss Calderwood and Miss Reid were elected ordinary members of the Society.

Mr Charles H. Rankine, M.A., H.M.I.S., 44 Forest Road, Aberdeen, was a candidate for membership.

E. T. Whittaker.

14.2.19.

Minutes of meeting held on Friday, 14th February, 1919, in the University, Edinburgh, Professor Whittaker in the chair.

A paper was read "On the Stereometric Generation of the De Jonquières Transformation, by Dr J. F. Tinto.

There was on exhibition a set of Descriptive Geometry

Meetings: 10th January 14th February 1919

models, constructed by Miss A. Knight from originals by Dr Horsburgh.

Mr C. H. Rankine was elected an ordinary member of the Society.

C. G. Knott
Pres.

14.3.19.

Minutes of meeting held on Friday, 14th March, 1919, in the University, Edinburgh, Dr Knott, President, in the chair.

The following papers were read :—

1. Some disputed questions of Probability, by Professor Whittaker.

2. Systems of rays in Quaternion Symbolism, by Dr Knott.

There were nominated as candidates for ordinary membership of the Society —

Mr W. E. H. Berwick, M.A., Lecturer in Mathematics, University College of North Wales, Bangor,

and Mr William Saddler, M.A., B.A., Lecturer in Mathematics, University of St Andrews.

C. G. Knott
Pres.

Meeting: 14th March 1919

Minutes of meeting held on Friday, 9th May 1919, in the University, Edinburgh, Dr Knott, President, in the Chair.

The following papers were read :-

1. Theorems concerning the Differentiation of a Circulant, by Professor W. H. Metzler, communicated by G. Smeal.

2. The Integrals of the Hypergeometric Equation, by Dr T. M. MacRobert.

Messrs. W. E. H. Berwick and W. Saddler were elected ordinary members of the society.

The following were candidates for membership -

Mr Gavin M. Hood, M.A., B.Sc.,
    53 West Coats Road, Cambuslang, Lanarkshire.

Mr John Maclean, M.A., B.Sc.,
    Professor of Mathematics, Wilson College, Bombay.

Mr Jason J. Nassau, C.E., M.Sc.,
    Syracuse University, Syracuse, New York.

Minutes of meeting held on Friday, 13th June 1919, in the University, Edinburgh, Dr Knott, President, in the Chair.   The following papers were read :-

1. Systems of Apolar Triads in the Twisted Cubic, by W. L. Marr;

Meeting: 9th May 13th June 1919

2. The Co-symmedian System of Tetrahedra in a Sphere, by W. L. Marr;

3. Approximations to the Length of an Arc, by Professor D. M. Y. Somerville, communicated by Dr Horsburgh;

4. A new Approximate Formula for the Complete Elliptic Integrals $K(k)$, $E(k)$, by Dr D. G. Taylor, communicated by the Secretary.

Messrs. Hood, Maclean and Nassau were elected Ordinary Members of the Society.

The Secretary nominated for membership Mr Edward Press, 23 Prince of Wales Terrace, Kensington, London, W.8.

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

Neil Mc Arthur, V. P.

FINANCIAL STATEMENT FOR SESSION 1917-18.

CAPITAL ACCOUNT.

Nov. 1917.	Balance	£101 1 4	Interest to Cash Account	£3 0 0
	Interest on Bond	3 15 9	Loan to Cash Account	25 0 0
	Interest on Bank Account	0 19 10	Nov. 1918. War Bond	55 2 4
	Three Life Subscriptions	9 9 0	„ Bank Balance	32 3 7
		£115 5 11		£115 5 11

CASH ACCOUNT.

Nov. 1917.	Balance	£4 6 4	Printer's Account	£54 3 7
	Interest	0 13 3	Bookbinder's Account	4 9 6
	95 Annual Subscriptions	35 12 6	Bank Charges	0 2 3
	Contribution to Printing	4 0 6	Janitor's Fees and Upkeep of Rooms	1 10 0
	Sale of *Proceedings* and *Notes*	10 9 6	Insurance	0 7 6
	Loan from Capital	25 0 0	Postages and Sundries	0 19 6
	Interest on Capital	3 0 0	Nov. 1918. Bank Balance	21 9 9
		£83 2 1		£83 2 1

C. G. KNOTT, }
P. COMRIE, } *Auditors.*

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

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Edinburgh Mathematical Society.

THIRTY-SEVENTH SESSION, 1918-19.

THE SECOND ORDINARY MEETING for the Session will be held on *Friday, 13th December,* at **5.30** *p.m.,* in the RESEARCH ROOM OF THE MATHEMATICAL INSTITUTE, THE UNIVERSITY, EDINBURGH.

BUSINESS.

1. The Stirling Numbers and Polynomials   -   - C. TWEEDIE.
    (*Communicated by* Dr A. MILNE.)
2. A Theorem of Sonine in Bessel Functions, with
    two Extensions to Spherical Harmonics   - Dr JOHN DOUGALL.
3. Note on the Complete Jacobian Elliptic Integrals - F. BOWMAN.

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

Office=Bearers for Session 1918=19.

President - - -	C. G. KNOTT, D.Sc., LL.D., Gen. Sec. 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., D.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.
HON. SECRETARY.

Committee.

PETER COMRIE, M.A., B.Sc., F.R.S.E.
Professor E. T. WHITTAKER, Sc.D., F.R.S.
EDWARD BLADES, M.A., B.Sc.
W. L. THOMSON, M.A.

Subscriptions for the current Session are now due, and should be paid to the Hon. Treasurer,
E. M. HORSBURGH, M.A., D.Sc., Assoc. M. Inst. C.E.,
11 GRANVILLE TERRACE, EDINBURGH.

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

Committee Meeting at 5.15.

SOCIÉTÉ MATHÉMATIQUE DE FRANCE

SECRÉTARIAT
A LA SORBONNE
Place de la Sorbonne
A PARIS

Paris, le 25 Novembre 1918

Monsieur le Président,

Le guerre s'achève par la victoire éclatante des alliés dans le triomphe des idées pour lesquelles ils ont si longtemps et si passionnément combattu. L'union des coeurs, des volontés et des courages, la mise en commun des ressources matérielles ont définitivement ruiné la plus formidable entreprise, d'hégémonie que le monde ait jamais connue.

La société mathématique de France est heureuse d'associer sa joie à votre joie et de vous exprimer ses cordiales et chaleureuses félicitations. Elle espère fermement que les relations nouées pendant les grands jours tragiques qui viennent de s'écouler seront solides et durables; elle saisira toutes les occasions de les rendre plus étroites, entre des savants qu'animant au même degré, le culte de la science et l'amour de la Patrie.

Le Président:

Maillet

The Edinburgh Mathematical Society

The President   of the

Mathematical Society of France

   Dear Sir

        I have read (received) with the liveliest pleasure your cordial letter of
congratulation to us who share with you the joys of victory after these
long years of strife and vigil.   I had the pleasure of reading your
letter to our assembled members at the last meeting of our Society, and
they desire me to express to you and your colleagues the same sentiments
of mutual satisfaction and relief which you have so beautifully expressed
in your letter to us.

        Our English language is not perhaps so well fitted as yours is to
put such sentiments in delicate and felicitous phrasing ; but we are all
at one in our feelings and in the hope that the dangers and trials through
which we have passed will knit us together in heart and soul more strong-
ly than ever.

              Ever yours in faith and loyalty

                      President