LONDON MATHEMATICAL SOCIETY

Presidential Address

Professor D. G. Kendall, F.R.S.

THE GENEALOGY OF GENEALOGY

THURSDAY, 21st November, 1974 *at* 5 p.m.

BEDFORD COLLEGE,
INNER CIRCLE, REGENT'S PARK,
LONDON, N.W.1

(Room 97 of the Tuke Building)

*Tea will be served at 4.30 p.m. in the
Herringham Building*

LMS NEWSLETTER

ANNUAL GENERAL MEETING

The Annual General Meeting of the London Mathematical Society will be on Thursday, 21 November, 1974, at 5 p.m. in Room 97 of the Tuke Building, Bedford College, Inner Circle, Regent's Park, London N.W.1. (The lecture by Professor Kendall will be immediately after this meeting.)

The report of the Auditors will be read.

The Meeting is empowered by Article 18 of the Statutes of the Society and by By-law I, 10 of the By-laws of the Society to elect twenty Members to form a Council and Officers for the ensuing year. The Meeting will also appoint Auditors.

A list of those Members who have been recommended by the present Council (acting under these Articles and under By-laws 1, 2, 3, 4) for election as the Council and Officers for the ensuing year is enclosed.

Under By-law I, 7 you have power to add any eligible names which are not already contained in this list. Such names as you do not vote for should then be struck out until the whole number, including the Officers, is reduced to twenty. But the list must contain at least two names of Members not on the Council for the session 1973–74.

The Officers must include a President, Vice-Presidents, a Treasurer, a Librarian, and a Secretary or Secretaries.

Council shall appoint Editors of the *Proceedings*, *Journal*, and *Bulletin* who shall be Members of the Society and shall take charge of these publications under the direction of the Council. Council may appoint one or more Assistant Editors for any of these publications, who shall also be Members of the Society.

If you attend the Meeting, this list should be brought to be used as a Ballot Paper. If you cannot attend, your vote will be counted if your list, duly signed and addressed to " The Scrutineers of The London Mathematical Society ", c/o The Royal Astronomical Society, Burlington House, Piccadilly, London W1V 0NL, is *received not less than* 36 hours before the time of the Annual General Meeting.

D. A. BRANNAN.

ANNUAL DINNER

After the Annual General Meeting on Thursday, 21 November, 1974, there will be a Members' Dinner in the Park Court Hotel, Lancaster Gate, London, W.2, at 6.45 p.m. for 7.15 p.m. As usual Members may bring guests. Sherry, wines, etc. will be available for purchase throughout the evening. The cost of the Dinner will be £3·40 per person.

Members who intend to come are requested to send their application for places, with remittance, to arrive by **Friday, 15 November,** on the enclosed form.

J. L. BRITTON.

DISCOUNTS FOR SOCIETY MEMBERS

The Society sponsors a series of Mathematical Monographs and a series of Lecture Notes. Members of the Society can purchase volumes of the Monographs Series at a 20% discount; they should, for this purpose, send cash or cheque with order to the Academic Press, 24–28 Oval Road, London, NW1 7DX. The discount for the Lecture Notes is 25%; and members should send cash or cheque with order to The Treasurer, London Mathematical Society, Burlington House, Piccadilly, London W1V 0NL.

FORTHCOMING MEETING

Professor I. G. Macdonald will address the Society at the meeting at 5 p.m. on Thursday, 12 December in University College, London.

INSTITUTE FOR ADVANCED STUDY

The School of Mathematics of the Institute for Advanced Study will grant a limited number of memberships, some with financial support for research in mathematics at the Institute during the academic year 1975–1976. Candidates must have given evidence of ability in research comparable at least with that expected for the Ph.D. degree. Application blanks may be obtained from the Secretary of the School of Mathematics, Institute for Advanced Study, Princeton, New Jersey 08540, and should be returned (whether or not funds are expected from some other source) by 15 January, 1975.

SPECIAL MEETINGS

2 November, 1974. Sixth Illinois Number Theory Conference. Information: L. E. Eggan, Mathematics Department, Illinois State University, Normal, Illinois 61761.

4 November, 1974. Symposium on Computer Science and the education of computer scientists. London. Information: Secretary, I.M.A., Maitland House, Warrior Square, Southend on Sea, Essex SS1 2JY.

23 November, 1974. Conference on Non-Commutative rings. Northern Illinois University. Information: John A. Beachy, Department of Mathematical Sciences, Northern Illinois University, De Kalb, Illinois 60115.

7–9 January, 1975. Conference on Optimization in action. University of Bristol. Information: Secretary, I.M.A., Maitland House, Warrior Square, Southend on Sea, Essex SS1 2JY.

10–13 February, 1975. Conference on finite groups. Park City, Utah, Information: W. R. Scott, Department of Mathematics, University of Utah, Salt Lake City, Utah 84112.

21 April–16 May, 1975. Summer School in Graph Theory (Southeast Asian Mathematical Society, Mathematical Society of the Philippines); Manila, Philippines. For information: contact Dr. Bienvenido Nebres, Department of Mathematics, Ateneo de Manila University, POB 154, Manila, Philippines.

20–24 May, 1975. International Symposium on Interval Mathematics; Universität Karlsruhe, Germany. For information contact Professor Dr. Karl Nickel, Universität Karlsruhe, Institut für praktische Mathematik, Postfach 6380, 75 Karlsruhe 1, Germany.

21–23 May, 1975. International Symposium on Multiple-valued Logic (Indiana University, ONR, IEEE Computer Society); Indiana University, Bloomington, Indiana, U.S.A. For information: contact G. Epstein, Conference Chairman, Computer Science, Indiana University, Bloomington, Indiana, U.S.A.

16–21 June, 1975. Fourth International Symposium for Multi-variate Analysis (ARL); Wright State University, Dayton, Ohio, U.S.A. For information: contact P. R. Krishnaiah, Symposium Chairman, ARL/LB, Building 450, Aerospace Research Laboratories, Wright–Patterson AFB, Ohio 45433, U.S.A.

ST. JOHN'S COLLEGE WITH BRASENOSE COLLEGE, OXFORD FELLOWSHIP IN MATHEMATICS

St. John's College intends to elect an Official Fellow and Tutor in Applied Mathematics to take up his duties as soon as convenient. The Fellowship will be held jointly with a College Lectureship at Brasenose.

Applications will be particularly welcome from candidates whose main interests are in the fields of statistics, operations research, optimization theory and related subjects. They should be sent with details of careers and publications, and the names of three referees, not later than 2 November, 1974, to the Senior Tutor, St. John's College, Oxford, from whom detailed particulars can also be obtained. The Colleges will not necessarily restrict their choice to candidates replying to the advertisement.

NEW A.M.S. PUBLICATIONS

TRANSACTIONS OF THE MOSCOW MATHE-MATICAL SOCIETY

Volume 26 (1972). 244 pages; list price $35·50; member price $26·63; ISBN 0–8218–1626–0. (To order, please specify MOSCOW/26.)

LECTURES IN APPLIED MATHEMATICS

Nonlinear Wave Motion, edited by Alan C. Newell. Volume 15. 232 pages; list price $19·10; member price $14·33: ISBN 0–8218–1115–0. (To order, please specify LAM/15.)

This volume contains the proceedings of the summer seminar held at Clarkson College of Technology, Potsdam, New York, in July 1972.

PROCEEDINGS OF SYMPOSIA IN APPLIED MATHEMATICS

The Influence of Computing on Mathematical Research and Education, edited by Joseph P. LaSalle.

Volume 20. 205 pages; list price $16·50, member price $12·38: ISBN 0–8218–1326–1. (To order, please specify PSAM/20.)

This volume contains seven of the invited addresses and 14 of the contributed papers that were presented at the joint American Mathematical Society and the Mathematical Association of America Conference on the Influence of Computing on Mathematical Research and Education held at the University of Montana, 13–24 August, 1973.

MEMOIRS OF THE AMERICAN MATHEMATICAL SOCIETY

(a) The Category of H–Modules over a Spectrum, by Jack Palmer Sanders.

Number 141. 136 pages; list price $3·50; member price $2·63; ISBN 0–8218–1841–4. (To order, please specify MEMO/141.)

In this Memoir the category of H-modules over a ring spectrum is introduced.

(b) On the Theory and Applications of Differential Torsion Products, by V. K. A. M. Gugenheim and J. Peter May.

Number 142. 94 pages; list price $3·20; member price $2·40; ISBN 0–8212–1842–2. (To order, please specify MEMO/142.)

In this Memoir a new approach to differential homological algebra is developed, one which exploits more general types of resolutions than the bi-complexes used traditionally.

PROCEEDINGS OF THE STEKLOV INSTITUTE

Polynomials orthogonal over a Region and Bieberbach Polynomials, by P. K. Suetin.

Number 100 (1971). 92 pages; list price $15·00; member price $11·25; LSBN 0–8218–3000–7. (To order, please specify STEKLO/100.)

The idea of orthogonal expansion in the theory of analytic functions is realised by various methods, one of which is Fourier series in polynomials orthogonal with respect to the area of a region. In this volume asymptotic and approximation properties of polynomials orthogonal with respect to area are investigated relative to properties of the weight function and the degree of smoothness of the boundary of the region. By way of an application, the rate of convergence of Bieberbach polynomials to a mapping function in a closed region is examined.

DURHAM SYMPOSIA 1976

Two very successful working research symposia were held at Durham this year. Two symposia, one on Algebraic Number Theory and one on Convexity, are being organized for the summer of 1975. Although the symposia so far arranged have been on topics in Pure Mathematics, it is hoped that some of the future symposia will attempt to bridge some of the gaps that seem to exist between workers in some branches of pure mathematics and those applying the branches to practical problems.

We have received some enquiries from organizers interested in organising symposia in 1976; but we would welcome further proposals, so that we can arrange a programme of two or three symposia for 1976. Proposals should be sent to The Secretary, Dr. D. A. Brannan, at Queen Elizabeth College, London, W8 7AH, from whom further details of the organization of meetings and the format of proposals are available. Proposals should be submitted, at least in an outline form, by 15 December, 1974, to enable the Society to decide its programme in January or February 1975 and to seek financial support.

C. A. ROGERS.

DURHAM SYMPOSIUM ON CONVEXITY

The London Mathematical Society and the University of Durham are organizing a working research symposium on the relations between infinite dimensional and finite dimensional convexity at the University of Durham from 21 July until 1 August, 1975. It is intended that the symposium should study the relationships between various finite dimensional problems and the geometry of Banach spaces. The following mathematicians from abroad have said that they hope to be able to come to the symposium: P. W. Aitchson, E. Alfsen, C. Bessaga, A. Bronsted, G. Choquet, L. Danzer, P. H. Debrunner, G. Ewald, W. Firey, R. Fourneau, B. Grünbaum, H. Iverberg, R. C. James,

W. B. Johnson, V. L. Klee, J. Lindenstrauss, P. Mani, V. D. Milman, A. Pelczynski, C. M. Petty, G. Pisier, D. Preiss, V. Pták, H. P. Rosenthal, R. Schneider, L. Tzafriri. The organizers would like to hear from any British mathematicians, who would like to come, but who have not yet received invitations. Subject to a limit imposed by the total number of places available the symposium is open to those who are likely to benefit from attending and who have a prospect of contributing to it. The Royal Society and the Science Research Council are providing generous financial support.

D. G. Lorman, C. A. Rogers.

AMERICAN and CANADIAN MATHEMATICIANS VISITING EUROPE

Name	Host University	Period
Albrecht, Felix R.	Florence, Strasbourg	1/75–6/75
Arthur, James G.	Institut des Hautes Etudes Scientifiques	1974–1975
Baouendi, Mohamed S.	Paris	8/74–5/75
Becker, James C.	Oxford	1/75–5/75
Blair, David	Strasbourg	9/74–4/75
Brunner, H.	Dundee	8/74–6/75
Bumby, R. T.	Cambridge	9/74–8/75
De Meyer, Frank R.	Eidgenössische Technische Hochschule, Switzerland	9/74–7/75
Dlab, Vlastimil	Paris	7/74–6/75
Ellis, Homer	International Centre for Theoretical Physics, Italy	6/74–6/75
Flaherty, Francis J.	Cambridge	4/75–6/75
Gaines, Robert E.	Louvain	1/75–7/75
Gray, John W.	Eidgenössiche Technische Hochschule, Switzerland	9/74–6/75
Hendricks, W. J.	Westfield College	1974–1975
Hestenes, Marshall	Eindhoven	9/74–8/75
Huckleberry, A. T.	Münster	9/74–6/75
Kaplan, Samuel	Westfield College	2/75–8/75
Knight, Frank B.	Strasbourg	9/74–12/74
Levine, Harold	Ecole Polytechnique	9/74–2/75
Lyndon, R. C.	Montpellier	8/74–7/75
Price, Justin J.	University College, London	8/74–5/75
Queensberry, C. P.	Zürich	1/75–7/75
Sen, P. K.	Albert–Ludwig	9/74–7/75
Sledd, William T.	Paris–Sud	9/74–8/75
Smyth, Brian	Bonn	9/74–6/75
Sonneborn, Lee	Bern	9/74–8/75

ACKNOWLEDGEMENT

INSTRUCTIONAL CONFERENCE

There will be a London Mathematical Society Instructional Conference on *Discrete Groups and Automorphic Functions* at Cambridge, England, from 28 July to 15 August, 1975. The meeting is a NATO Advanced Study Institute.

Some financial assistance will be available.

For further details write to Dr. A. F. Beardon, Department of Pure Mathematics and Mathematical Statistics, 16 Mill Lane, Cambridge, CB2 1SB, England.

A. F. BEARDON.

SUBSCRIPTIONS

Members are reminded that subscriptions for the session 1974–75 become due on 1 November, 1974.

LIST OF NAMES RECOMMENDED FOR ELECTION AS COUNCIL
FOR THE SESSION 1974–75

President
M. F. Atiyah, M.A., Ph.D., F.R.S. ..   ..   *Nominated by*   The Council

Vice–Presidents
J. W. S. Cassels, M.A., Ph.D., F.R.S.   ..   ..   ,,   ,,
*H. Halberstam, M.Sc., Ph.D.   ..   ..   ,,   ,,
W. Ledermann, Ph.D., D.Sc., F.R.S.E.   ..   ..   ,,   ,,

Treasurer
I. M. James, M.A., D.Phil., F.R.S. ..   ..   ,,   ,,

Librarian
D. G. Larman, Ph.D., D.Sc. ..   ..   ,,   ,,

Council and General Secretary
D. A. Brannan, Ph.D.   ..   ..   ,,   ,,

Meetings and Membership Secretary
J. L. Britton, M.Sc., Ph.D.   ..   ..   ,,   ,,

Publications Officer
D. J. A. Welsh, M.A., D.Phil.   ..   ..   ,,   ,,

Other Members of Council
F. F. Bonsall, M.A., D.Sc., F.R.S.E., F.R.S.   ..   ..   ,,   ,,
R. F. Churchhouse, B.Sc., Ph.D.   ..   ..   ,,   ,,
W. H. Cockcroft, M.A., D.Phil.   ..   ..   ,,   ,,
P. M. Cohn, M.A., Ph.D.   ..   ..   ,,   ,,
*A. W. Goldie, M.A. ..   ..   ,,   ,,
*H. B. Griffiths, M.Sc., Ph.D.   ..   ..   ,,   ,,
P. J. Higgins, B.A., Ph.D.   ..   ..   ,,   ,,
*B. E. Johnson, B.Sc., Ph.D.   ..   ..   ,,   ,,
*B. A. Tayler, M.A., D.Phil. ..   ..   ,,   ,,
C. T. C. Wall, B.A., Ph.D., F.R.S. ..   ..   ,,   ,,
T. J. Willmore, M.Sc., Ph.D., D.Sc.   ..   ..   ,,   ,,

* Members whose names appear with an asterisk are not on the retiring Council.

PLEASE NOTE: This portion is to be sent under separate cover to " *The Scrutineers of the London Mathematical Society* " to arrive by 15 November.

ANNUAL DINNER 1974

(The Park Court Hotel, Lancaster Gate, London, W.2, at 6.45 p.m. for 7.15 p.m.)

I wish to book.................................places for the above dinner on Thursday, 21 November, 1974, for myself and.......................guests.   I enclose a remittance of £...............................
(The cost is £3·40 per person.   Cheques should be made payable to " The London Mathematical Society ".)

Name ....
(BLOCK CAPITALS)
Address ....

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PLEASE NOTE: Bookings should be sent by **Friday, 15 November,** to Professor J. L. Britton, Department of Mathematics, Queen Elizabeth College, London W8 7AH.