THE LONDON MATHEMATICAL SOCIETY NEWSLETTER

No.164

September 1989

FORTHCOMING SOCIETY MEETINGS

Friday 20 October 1989, Burlington House Meeting on Stochastic Combinatorics. Bollabas, G.R. Grimmett, D.J.A. Welsh, F.P. Kelly

Friday 17 November 1989, Royal Society R.M. May, J.D. Murray

VISIT OF DR SHMUEL GAL

Dr Shmuel Gal of IBM Israel Scientific Centre will be visiting England from 11th to 24th September. It is expected that he will speak at Southampton University on 13th September, at Cambridge University on 19th September and at the London School of Economics on 21st September. His talks will cover his recent work on search games and maze algorithms.

For further information contact Steve Alpern at the London School of Economics, telephone 01-405 7686. Dr Gal has been invited under the LMS Visitor Scheme 2.

HASSLER WHITNEY

Hassler Whitney, Professor Emeritus at the at the Institute for Advanced Study in Princeton, died on 10th May 1989, at the age of 82. He was elected an Honorary Member of the London Mathematical Society on 19th October 1980.

GILBERT W. MORGAN

Dr Gilbert W. Morgan, CBE, who was elected a member of the London Mathematical Society on

18th January 1934, died on 3rd May 1989.

GABRIEL A. GARREAU

Dr Gabriel A. Garreau who was elected a member of the London Mathematical Society on 15th December 1949, died on 11th June 1989. He was a Reader in Mathematics at the City University until he retired in 1969.

SAMUEL NEWBY CURLE

Professor Samuel Newby Curle, died on 27th June 1989 at the age of 59. From 1967 he was Gregory Professor of Applied Mathematics at St Andrews University. From 1954 till 1961 he was a search aerodynamicist at the National Physical Laboratory, then Reader in Aeronautics at Southampton University. His research in fluid

dynamics mainly concerned approximate methods in boundary-layer theory. His publications include a 1961 research monograph on 'The Laminar Boundary Layer Equations' and undergraduate textbooks 'Modern Fluid Dyanamics' (with H.J. Davies) and 'Applied Differential Equations'.

FOREIGN MEMBERSHIP OF THE ROYAL SOCIETY

At a meeting on 29th June 1989, Professor Paul Erdos

was elected a Foreign Member of the Royal Society.

COLLINGWOOD MEMORIAL PRIZE

This prize was established by the London Mathematical Society in memory of Sir Edward Collingwood, and is awarded annually to a student of the University of Durham obtaining First Class

Honours in Mathematics and entering a course of postgraduate study. The 1989 prize is awarded to Mr J.A. Smith of Van Mildert College who will be a research student at the University of Durham.

IOWME - NEWSLETTER

This Newsletter, which is published twice yearly, contains information about the International Organisation of Women and Mathematics Education. Those Members resident in the UK who would

like more information should contact: Zelda Isaacson, Department of Teaching Studies, Polytechnic of North London, Prince of Wales Road, London NW5

ELEVENTH DUNDEE CONFERENCE ON ORDINARY AND PARTIAL DIFFERENTIAL EQUATIONS

The Eleventh Dundee Conference on Ordinary and Partial Differential Equations will be held in Dundee from Tuesday 3rd July to Friday 6th July 1990.

The purpose of the Conference is to bring together research workers with a common interest in differential equations and their applications. Particular attention will be focussed on recent developments in the theory on non-linear differential equations and their applications to biological

phenomena, wave propagation and dynamical systems.

Principal speakers will include J.M. Ball, P. Binding, O. Diekmann, I Ekeland, P.J. Holmes, G. Kreigsman, M.C. Mackey, R.E. Meyer, D.H. Sattinger and L. Tartar.

Further information and application forms may be obtained from Dr R.J. Jarvis, Department of Mathematics and Computer Science, The University, Dundee DD1 4HN, Scotland.

GENERATORS AND RELATIONS IN GROUPS AND GEOMETRIES

A NATO Advanced Study Institute on Generators and Relations in Groups and Geometries will be held at Castelvecchio Pascoli, Lucca, Italy from 1st to 14th April 1990.

The invited speakers are A. Caranti (Trento), A.M. Cohen (Amsterdam), L. Di Martino (Milano), E.W. Ellers (Toronto), M. Gotzky (Kiel), H. Ishibashi (Sakado), M. Jarden (Tel Aviv), F. Knup-

pel (Kiel), T.J. Laffey (Dublin), H. Lausch (Wurzburg), P. Plaumann (Erlangen), T.A. Springer (Utrecht) and B. Zimmermann (Trieste).

For further information contact the Organizing Committee of the NATO ASI meeting c/o Professor K. Strambach, Universitat Erlangen-Nurnberg, Mathematisches Institut, Bismarckstr.1 1/2, D-8520 Erlangen, F.R.G.

HISTORY OF MATHEMATICS SERIES JOINT PUBLICATION

The London Mathematical Society and the American Mathematical Society are pleased to announce an agreement to publish jointly a book series devoted to the History of Mathematics.

Manuscripts for publication in this series will be selected by a six-person Editorial Committee consisting of three members appointed by each Society. The LMS committee members are J.J. Gray, Open University, C. Houzel, University of Paris, and S.J. Patterson, University of Gottingen; the AMS committee members are R.A. Askey, P.L. Duren and U.C. Merzbach.

The History of Mathematics series will present historical perspectives on individuals who have profoundly influenced the development of mathematics or have made great contributions to the mathematical community, or will trace the development of special areas of research. Any member of the Society who is considering the possibility of writing a volume that might be in the area covered by this series is invited to contact one of the Editorial Committee members to discuss the plan.

LONDON MATHEMATICAL SOCIETY

Notice of General Meeting

There will be a General Meeting of the Society on Friday, 20th October 1989 at 5.00 p.m. in the Meeting Room of the Geological Society, Burlington House, Piccadilly, London, W1, to consider a proposal by the Council of the Society to delete the existing By-Law II,3 and to substitute that printed below.

The new By-Law, if accepted, will increase the annual subscription of Corporation and Institutional members for 1989-90 to £325 from the 1988-89 level of £300.

Text of the Proposed By-Law II,3

The annual subscription to the Society of Corporation and Institutional Members for the 1989-90 session shall be £325, inclusive of one volume of the **Bulletin** and two volumes of the **Journal** and of the **Proceedings**, except that those Corporation and Institutional Members who have more than one Representative shall pay an additional subscription of £10 for each Representative in excess of one.

Council and General Secretary

CURVATURE GEOMETRY WORKSHOP Lancaster 1989

Proceedings, Edited by C.T.J. Dodson
Contains papers presented by
L. Vanhecke, F. Tricerri, C.T.J. Dodson,
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UNIVERSITY OF CAPE TOWN

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Professor/ Associate Professor/ Senior Lecturer/ Lecturer

Applications are invited for vacant posts in the Department of Mathematics.

Vacancies will exist from 1 September 1989. Preference will be given to applicants in
the fields Functional Analysis, Differential Equations, Algebra, Logic, Combinatorics and the Theory of
Algorithms, or in closely related fields, but candidates in all fields of mathematics are invited to apply.

A negotiable salary package includes attractive staff benefits such as medical aid, a pension scheme and a housing subsidy in certain circumstances. Further details concerning remuneration will be supplied to applicants for the post.

The ranks of the successful applicants will be decided upon the basis of qualifications and experience; candidates should indicate in their letters of application for which post/s they wish to be considered.

Applicants should submit a full curriculum vitae and the names, addresses and telephone numbers of three referees not later than 15 August 1989 to the Appointments Officer (Ref: CR), University of Cape Town, Rondebosch, 7700, Republic of South Africa (telephone no. (021) 650-2192; telefax no. (021) 650-2138. Late applications will be considered. Further information may be obtained from the above, or from the Secretary, SA Universities Office, Chichester House, 278 High Holborn, London WCIV 7HE. Applicants should furnish their referees with copies of c.v.'s and list of publications. Late applicants will be considered if the position has not been filled.

The firm policy and practice of the University of Cape Town is to oppose discrimination in any sphere of university life on grounds of gender, race or creed. UCT has consistently protested, and continues to protest, against aparthied laws and practices and is committed to a just future for our country. Information on this is available on request.

GLASGOW MATHEMATICAL JOURNAL

From January 1990 the Glasgow Mathematical Journal will be published by Oxford University Press. LMS members will be able to order copies of the Journal for their personal use at a special rate. The Glasgow Mathematical Journal will be listed alongside the LMS and other journals on the next LMS membership renewal form: copies can be ordered simply by ticking the appropriate box on the form.

The Glasgow Mathematical Journal, which was founded in 1952, publishes research papers in both Pure and Applied Mathematics. Its policy is to feature a wide variety of research areas, which in recent issues have included algebra, analysis, combinatorics, differential equations, fluid mechanics, geometry, number theory and topology.

Papers are submitted to the Journal from all parts of the world: selection for publication is on the usual basis of reports from specialist referees commissioned by the Journal's editors at the University of Glasgow.

Recent and forthcoming papers include the following: M.C.W. Jones, Small amplitude capillary-gravity waves in a channel of finite depth; D.J.S. Robinson, Deciding if an automorphism of an infinite soluble group is inner; G. Hanssens and H. van Maldeghem, On projective Hjelmslev planes of level n; H.P. Künzi, Some remarks on quasi-uniform spaces; Richard Steiner, Multiple semidirect products of associative systems; D.A. Jordan, Some examples of non-commutative local crings; S.D. Cohen and R.W.K. Odoni, Galois groups associated with CM-fields, skew-symmetric matrices and orthogonal matrices.

Each year the Glasgow Mathematical Journal publishes one volume in three parts (January, May and September) totalling approximately 380 pages. LMS members ordering through the LMS as described above can obtain copies of the 1990 volume (vol 32) for £20. Enquiries about subscriptions for libraries and institutions should be directed to the Journals Subscription Department, Oxford University Press, Pinkhill House, Southfield Road, Eynsham, Oxford OX8 1JJ.

GUEST RESEARCH FELLOWS

The Council of the Royal Society invites applications for the support of Guest Research Fellows. The object of this scheme, established in 1980, is to assist outstanding leaders in scientific research in the United Kingdom to invite as guests scientists of proven ability, normally resident overseas, to come and work with them for periods of between four months and one year. The aim is to provide for research needs which can best be met by such international collaboration, and proposed guests should be key workers, normally already holding established posts, who would bring unique expertise to their hosts in the United Kingdom. Emphasis in selection will be on the abilities and field of research of the applicant working in the United

Kingdom and on those special contributions to the applicant's research which would be provided by the visitor and are not available in the United Kingdom.

Applicants must be working in departments of science (including agriculture, medicine, mathematics, engineering and technology) in universities or research institutions in the United Kingdom. Direct applications from intending guests from overseas are not acceptable.

Applications should be made on forms to be obtained from the Executive Secretary (LUM), The Royal Society, 6 Carlton House Terrace, London, SW1Y 5AG, and returned by 31 October 1989.

JOURNAL BACKLOG 1989

	No. of Issues	No. of Pages	Backlog	Estimate
Math Proc. Camb	6	1200	220	9-12
Edinburgh Math Society	3	470	150	12-16
Glasgow Math Journal	3	380	100	12-16
L.M.S. Bulletin	6	624	100	10-14
Journal	6	1152	300	13-17
Proceedings	6	1250	250	15-18
Mathematika	2	350	50	6-12
Oxford Q.J.M.	4	512	96	12-18
R.S. Edinburgh Proc. A.	6	1080	nil	8-12

UNIVERSITY OF CAMBRIDGE

DEPARTMENT OF PURE MATHEMATICS AND MATHEMATICAL STATISTICS

UNIVERSITY LECTURER IN PURE MATHEMATICS

Applications are invited for a University Lectureship in Pure Mathematics, to take up appointment from 1st January 1990 or as soon as possible thereafter. Applicants may be working in any area of Pure Mathematics.

Further information can be obtained from the Head of Department, Department of Pure Mathematics and Mathematical Statistics, 16 Mill Lane, Cambridge, CB2 1SB, telephone Cambridge (0223) 337996.

The closing date for applications is 14th October 1989.

UNIVERSITY COLLEGE LONDON

The College is exploring the possibility of filling the Astor Chair in Pure Mathematics. The last three holders of the chair have been Professor H. Davenport F.R.S., Professor C.A. Rogers F.R.S. and Professor P.M. Cohn F.R.S. Nominations and enquiries are invited. The college is looking for a mathematician with an excellent record in one of the main stream branches of pure mathematics. It would especially welcome nominations of distinguished mathematicians in number theory or analysis or any related field.

A vacant lectureship is available so that an incoming Astor Professor could help in appointing a suitable candidate in his/her field.

Please contact: Dr D.H. Roberts F.R.S., Provost, University College London, Gower Street, London WC1E 6BT, England

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Volume 18

A. E. Brouwer, A. M. Cohen, Amsterdam, The Netherlands; A. Neumaier, University of Freiburg, FRG

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1989. XVII, 495 pp. Hardcover £ 48.50 ISBN 3-540-50619-5



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Many new results and proofs and more than 750 references increase the encyclopaedic value of this book.

Volume 15

T. Oda, Tohoku University, Sendai, Japan

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Volume 16

G. van der Geer, University of Amsterdam, The Netherlands

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TEUBNER-TEXTE zur Mathematik · 1989

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215 pp. (Vol. 114). Boards. DM 27,– ISBN 3-322-00704-9 666 535 8 / Hemmerling, Labyrinth engl.

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Proceedings of the 9th Conference on Problems and Methods in Mathematical Physics (9th TMP) held in Karl-Marx-Stadt in 1988, June 27th to July 1st

B. SILBERMANN 280 pp. (Vol. 111). Boards. DM 35,– ISBN 3-322-00705-7 666 536 6 / Kuhnert, Proceedings engl.

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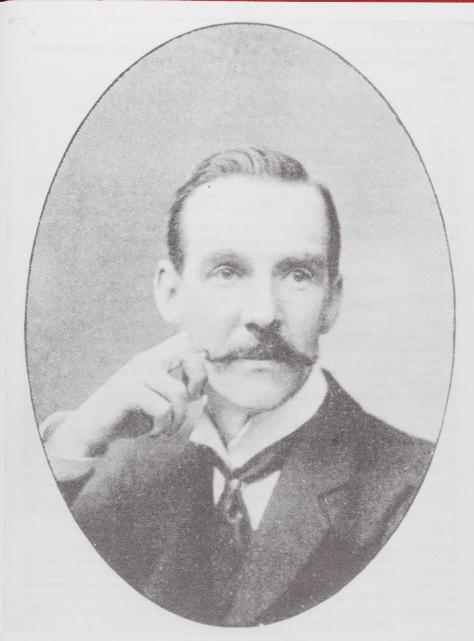
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For further information please write to Jacqueline Arthurs at the address below.

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Ernest William Hobson (1856-1933) graduated Senior Wrangler from Cambridge in 1878. A man of firm views he took an anti-feminist position at Cambridge, but tutored Miss Fawcett, the woman Senior Wrangler of 1890. His career only blossomed when W.H. Young introduced him to modern rigorous analysis, what Greenhill called a monstrosity. Hobson's **Theory of Functions of a Real Variable** first appeared in 1907, and Hardy said it helped to bring about a revolution in pure mathematics in Britain. On the strength of it he succeeded Forsyth as Sadleirian Professor in 1910. He was awarded the De Morgan medal in 1920, and was the Society's nineteenth President, from 1900-1902.

DIARY

The diary lists Society meetings and other events publicised in previous issues of the Newsletter. For further information, refer to the figure in brackets, which is a cross reference to the LMS Newsletter Number.

1989

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OE	ГΙ		

6-8	Category Theory	and Computer Science,	Manchester (154)	(163)

7-8 Irish Mathematical Society meeting, Ireland (161) 12-15 British Association Annual Meeting, Sheffield (163)

17-22 ICMI Conference on the Popularization of Mathematics, Leeds (163)

18-23 A Century of Geometry, France. (160) 25-26 4th British Topology Meeting, Bangor (163) 26-28 Arithmetic Galois Modules, Cambridge (163)

27-29 p-adic Methods and their Applications, Manchester (162)

OCTOBER

20 LMS Meeting, London

NOVEMBER

17 LMS Meeting, London

1990

JANUARY

19 LMS Meeting, London

FEBRUARY

16 LMS Meeting, Bath

MARCH

16 LMS Meeting, London

26-30 Invited Lectures, Cambridge (160)

APRIL

1-14 Generators and Relations in Groups and Geometries, Italy (164)

MAY

18-19 2-day LMS Meeting, Sheffield

JUNE

6–9 European Consortium for Mathematics in Industry, Finland (159)

11-14 XIV Rolf Nevanlinna Colloquium, Finland (162)
12-15 Analysis and Optimization of Systems, France (161)

15 LMS Meeting, London

27-30 Algebraic Hyperstructures and Applications, Greece (162)

JULY

1–15 Adams Memorial Symposium, Manchester (163)

3-6 Ordinary and Partial Differential Equations Conference, Dundee (164)

9-11 New Trends in Systems Theory, Italy (162)

9-20 Geometry and Topology of Four-Manifolds, Canada (162)

AUGUST

21-29 International Congress of Mathematicians 1990, Japan (151)

21-29 Logic Conference, Japan (160)

OCTOBER

19 LMS Meeting, London

NOVEMBER

16 LMS Meeting, London

The Newsletter is published monthly except in August. Items and advertisements for inclusion in the Newsletter should be sent to the Editor, Susan Oakes, London Mathematical Society, Burlington House, Piccadilly, London WIV 0NL (telephone 01-437 5377, fax 01-439 4629), to arrive before the first day of the month prior to publication.