

THE LONDON MATHEMATICAL SOCIETY NEWSLETTER

No.146

January 1988

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 W1V 0NL) to arrive before the first day of the month prior to publication

FORTHCOMING SOCIETY MEETINGS

Friday 15 January 1988, Burlington House
(T.J. Lyons, D.A. Rand)

Friday 19 February 1988, Leeds
(K.A. Brown, J.C. McConnell)

Friday 18 March 1988, Scientific Societies Lecture Theatre
(J.H. van Lint, F.C. Piper)

Thursday, Friday 19-20 May 1988, Cardiff

Friday 17 June 1988, Burlington House

Friday 21 October 1988, Burlington House

Friday 18 November 1988, Royal Society

SIXTH INTERNATIONAL COLLOQUIUM ON DIFFERENTIAL GEOMETRY

The Sixth International Colloquium on Differential Geometry will be held at the Universidad de Santiago de Compostela from 19-23 September 1988.

The invited speakers are J.Eells, A.Gray, G.Hector, A.Lichnerowicz, F.J.Turiel, D.Sullivan and L.Vanhecke. Participants wishing to present

papers are asked to submit an extended summary of about 500 words with completed registration cards by 1 May, 1988.

For further information, write to Departamento de Geometria y Topologia, Facultad de Matematicas, Universidad de Santiago de Compostela, 15705 Santiago de Compostela, Spain.

1987 COUNCIL ELECTIONS

At the Annual General Meeting on 20th November 1987 the following members were elected to Council: E.C. Zeeman (President); J.H. Coates and K.W. Gruenberg (Vice-Presidents); J.D.M. Wright (Treasurer); C.J. Mulvey (Council and General Secretary); A.R. Pears (Meetings and Membership Secretary); D.A. Brannan (Publications Secretary); P.A. Samet (Librarian); S.K. Donald-

son, W.N. Everitt, B. Hartley, E.C. Lance, D. Strauss, P. Vamos (Members-at-large, 2-year terms); J.W. Bruce, D.E. Edmunds, D.J.H. Garling, P. Holgate, C. Kosniowski, and E.G. Rees are Members-at-Large whose terms expire in 1988.

C.J. Mulvey
Council and General Secretary

London Mathematical Society Council, Committees, and Representatives, 1988

PRESIDENT:	E.C. Zeeman
VICE-PRESIDENTS:	J.H. Coates, K.W. Gruenberg
TREASURER:	J.D.M. Wright
COUNCIL AND GENERAL SECRETARY:	C.J. Mulvey
MEETINGS AND MEMBERSHIP SECRETARY:	A.R. Pears
PUBLICATIONS SECRETARY:	D.A. Brannan
LIBRARIAN:	P.A. Samet
MEMBERS-AT-LARGE OF COUNCIL:	J.W. Bruce, S.K. Donaldson, D.E. Edmunds, W.N. Everitt, D.J.H. Garling, B. Hartley, P. Holgate, C. Kosniowski, E.C. Lance, E.G. Rees, D. Strauss, P. Vamos.
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GENERAL PURPOSES COMMITTEE:	President (Chairman), Council Secretary (Secretary), Treasurer, Meetings Secretary, Publications Secretary.
FINANCE COMMITTEE:	Treasurer (Convenor), President, Publications Secretary, C.J. Mulvey, D.E. Edmunds.
PROGRAMME COMMITTEE:	President (Chairman), Meetings Secretary (Secretary), J.H. Coates, B. Hartley, P.A. Samet, J.D.M. Wright.
1988 PRIZES COMMITTEE:	E.C. Zeeman, (Convenor), J.H. Coates, S.K. Donaldson, K.W. Gruenberg, J.T. Stuart.
PUBLICATIONS COMMITTEE:	Publications Secretary (Convenor), Joint Editors of Bulletin, Journal, and Proceedings, Book Reviews Editor, E.B. Davies (Books), D.J.H. Garling (Council).
DURHAM SYMPOSIA COMMITTEE:	C.T.C. Wall (Chairman) (85-89), P.J. Higgins (Secretary, ex-officio), E.C. Lance (Council), E.L. Albasing (87-91), B.J. Birch (88-92), C.J. Isham (88-92).
EDUCATION COMMITTEE:	J.M. Howie (Chairman) (85-89), I.R. Porteous (Secretary) (83-90), N.L. Biggs (ex-officio), D. Strauss (Council), S. Burns (86-90), A.R. Camina (86-90), N.W.D. Gower (85-89), C. Hoyle (85-89), H. Neill (83-89).
POPULAR LECTURES COMMITTEE:	P. Holgate (Chairman) (85-89), B. Baumslag (1988 London Organiser), I.R. Porteous (1988 Northern Organiser), J.W. Bruce (Council), N.H. Bingham (85-89), A.S.-T. Lue (85-89), T. Porter (86-91), J.C. Robson (86-90).
COMPUTER SCIENCE COMMITTEE:	N.L. Biggs (Chairman) (85-89), D.F. Holt (Secretary) (85-89), P.A. Samet (Council), S. Abramsky (87-91), R. Brown (85-88), K. Devlin (87-91), P. Holgate (85-88), S.S. Wainer (87-90).
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EUROPEAN MATHEMATICAL COUNCIL:	J.H. Coates (87-91).
EUROMATH COORDINATING COMMITTEE:	P. Vamos (87-91)
BRITISH NATIONAL COMMITTEE FOR MATHEMATICS:	B. Hartley (88-93), I.G. Macdonald (85-90), S.A. Robertson (85-90).
BRITISH NATIONAL COMMITTEE FOR THEORETICAL AND APPLIED MECHANICS:	E.C. Zeeman (85-90).
BRITISH MATHEMATICAL COLLOQUIUM COMMITTEE:	President, Meetings Secretary.
JOINT MATHEMATICAL COUNCIL:	I.R. Porteous (ex officio).
ROYAL SOCIETY/IMA JOINT COMMITTEE ON MATHEMATICS EDUCATION:	N.L. Biggs (86-91).
ROYAL SOCIETY/IMA ICMI SUBCOMMITTEE:	N.L. Biggs (85-88).
BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, MATHEMATICS COMMITTEE:	N.H. Bingham (86-91)
NOTTINGHAM CONFERENCES ORGANISING COMMITTEE:	J.M. Howie (83-92).
TRUSTEE, APPLIED PROBABILITY TRUST:	R.A. Bailey (88-92).
WARWICK MATHEMATICS RESEARCH CENTRE, ADVISORY BOARD:	K.W. Gruenberg (1st October 87 – 30th September 90).
COLLINGWOOD PRIZE COMMITTEE:	P.J. Higgins.
HARDY JUNIOR RESEARCH FELLOWSHIP COMMITTEE, 1988:	J.H. Coates.

C.J. Mulvey
Council and General Secretary

LONDON MATHEMATICAL SOCIETY

**T.J.Lyons (Edinburgh)
SELF INTERSECTIONS OF BROWNIAN
MOTION**

**D.A.Rand (Warwick)
GLOBAL UNIVERSALITY,
RENORMALISATION AND RIGIDITY OF
DYNAMICAL SYSTEMS**

FRIDAY 15 JANUARY 1988 AT 3.30 p.m.

**The meeting is at the
Geological Society
Burlington House
Piccadilly, London W1**

**All interested are very welcome.
Tea will be served at 4.30 pm**

PROGRAMME AND CONFERENCE FUND

The Society's Programme and Conference Fund is used to give financial support to various mathematical activities in the UK. This fund is administered by the Society's Programme Committee. Grants are made under three main headings.

1. Scheme 1 Visitors

Under this scheme, a speaker from abroad is invited to spend about two weeks in the UK, to address a Society Meeting and to give lectures in three or four separate institutions. The Society pays the cost of the visitor's travel to and from the UK and for accommodation in London, and the host institutions are expected to share the cost of travel within the UK and local accommodation. LMS Council is anxious that greater use should be made of this scheme to enhance, by such visits, the benefit of LMS membership to members who are not easily able to attend London meetings. In planning the Society's future meetings, Programme Committee will have this scheme in mind, and suggestions from UK institutions for visitors they would like to receive but whose expenses they could not normally afford are very strongly encouraged. Programme Committee tries to plan Society Meetings at least six months in advance; this should be kept in mind when making suggestions under this scheme.

2. Scheme 2 Visitors

Under this scheme, some financial support is provided for visitors to the UK who do not address a Society Meeting but will give lectures in at least three separate institutions. Exceptionally support under this scheme might be provided for a speaker addressing just one meeting which is regional in scope. The LMS contribution under this scheme will be for the visitor's travelling expenses to and from the UK. Host institutions are expected to share the cost of travel within the UK and local

accommodation. All arrangements for a visit supported under this scheme are the responsibility of the member who makes the application. Applications can be made at any time, but should normally be made at least two months before the starting date of the proposed visit, so that the lectures to be given can be publicized in the Society's Newsletter. The society believes this scheme to be very useful, and applications are strongly encouraged.

3. Financial support for Conferences

Grants are made from the Programme and Conference Fund to the organizers of conferences to be held in the UK. Funds for this purpose are limited and Programme Committee tends to give priority to small meetings where an LMS grant can be expected to make a significant contribution to the viability and success of the meeting. Support of larger meetings of high quality is not ruled out but for such meetings an LMS grant would normally cover only part of the total cost. An Application Form, obtainable from the Meetings and Membership Secretary, sets out conditions under which grants are normally made and request the information Programme Committee usually requires when considering an application.

Further information about these functions of Programme Committee can be obtained from the meetings and Membership Secretary, A.R. Pears, Department of Mathematics, King's College, Strand, London WC2R 2LS, telephone number 01-836-5454, who will be pleased to discuss proposals informally with potential applicants and to give advice on submission of an application to the Society. The next meeting of Programme Committee will be held in February and it would be a great help if suggestions and applications to be considered at that meeting could be submitted to the Meetings and Membership Secretary no later than 31 January 1988.

QUEEN MARY COLLEGE

Professor S. Andreadakis (University of Athens), Dr J. Berrick (University of Singapore) and Dr A. Bracken (University of Queensland) are amongst the visitors to Queen Mary College for the academic year 1987/88.

For further information contact, Ann Cook, School of Mathematical Sciences, Queen Mary College, Mile End Road, London E1 4NS. Telephone 01-980-4811 ext.3840.

THE 30TH BRITISH THEORETICAL MECHANICS COLLOQUIUM

The 30th British Theoretical Mechanics Colloquium will be held at Imperial College of Science and Technology, London from Monday 11th to Friday 15th April 1988. Invited general lectures will be given by R.M. Anderson (Biology, Imperial College), J.M. Ball (Mathematics, Heriot-Watt University), T.B. Benjamin (Mathematics, University of Oxford), J.T.C. Liu (Engineering, Brown University), D.P. McKenzie (Geophysics, University of Cambridge) and F.T. Smith (Mathematics,

University College London). A mini-symposia will take place on "Industrial Mathematics, Robotics, and Computational Fluid Dynamics".

Further details and a call for papers will be circulated during January 1988. Enquiries should be addressed to: The Secretary, 30th BTMC, Department of Mathematics, Imperial College of Science and Technology, 180 Queen's Gate, London SW7 2BZ. Electronic Mail Address; BTMC @ UK.A-C.IC.CC.VAXA.

BRITISH COMBINATORIAL COMMITTEE

At the Business Meeting held during the Eleventh British Combinatorial Conference (13-17 July 1987, University of London Goldsmiths' College) a new committee was elected to serve until the next Conference. At a subsequent meeting of the newly elected Committee, members to serve as Honorary Secretary and Honorary Treasurer were chosen. The members of the new Committee are as follows:

Professor C St J A Nash-Williams (Chairman), Dr A J W Hilton, Dr J W P Hirschfeld, Dr E K Lloyd (Treasurer), Dr A Thomason, Mrs C Whitehead (Secretary), Dr R J Wilson. Ex officio: Mr P A Rado (Bulletin Editor), Dr A Camina and Dr J Siemons (Local Organizers for 1989 Conference).

The committee is grateful for financial support received from the London Mathematical Society Conferences Fund and the British Council towards the costs of the above-mentioned Conference).

Twelfth British Combinatorial Conference

The Committee wishes to announce that the next British Combinatorial Conference will be held at the University of East Anglia from 3-7 July 1989.

British Combinatorial Bulletin

This booklet, published annually, contains news of Conference and Colloquia on Combinatorial topics, a list of British Mathematicians known to be interested in Combinatorics and information about their forthcoming research publications. It is available on request free of charge to mathematicians resident in Great Britain and at a cost of £2 (to cover postage for two issues) to interested persons resident overseas. Please send £2 sterling to the Editor, Mr P A Rado, Department of Mathematics, Royal Holloway College, Egham Hill, Egham TW20 OEX, England.

One-Day Colloquia on Combinatorial Topics

The British Combinatorial Committee has again decided to make a limited sum of money available for the support of One-Day Colloquia on Combinatorial topics. The Committee will, however, expect any Institution requesting money under this arrangement to provide part of the total needed from its own funds. Proposals for consideration by the Committee should be sent in the first instance to the Secretary, Mrs C Whitehead, Department of Mathematical Sciences, Goldsmiths' College, London SE14 6NW.

UNIVERSITY OF CAMBRIDGE DEPARTMENT OF PURE MATHEMATICS AND MATHEMATICAL STATISTICS UNIVERSITY ASSISTANT LECTURER IN PURE MATHEMATICS

University Assistant Lecturer to take up appointment from a date to be agreed with the successful candidate. There is no restriction on the field of Pure Mathematics in which applicants may work. The appointment will be for three years, with the possibility of renewal for two further years.

The pensionable scale of stipends, for persons not ordinarily resident in college, is £9865 a year, rising by four annual increments to £12035.

Applications, giving details of qualifications and experience, together with a curriculum vitae and the names of two or three referees, should be sent to the Secretary of the Appointment's Committee, Faculty of Mathematics, 16 Mill Lane, Cambridge, CB2 1SB, to reach him no later than 23rd January 1988.

Any queries may be addressed to Dr D.J.H. Garling, Head of Department of Pure Mathematics and Mathematical Statistics, 16 Mill Lane, Cambridge, CB2 1SB, telephone Cambridge 337996.

Dear Member,

The launching of our new journal *Nonlinearity* is part of a broader long-term strategy for the Society.

During the last forty years there has been a divergence between pure and applied mathematics, perhaps more noticeable in this country than elsewhere, but now the pendulum is beginning to swing back. By the turn of the century I foresee a growing movement of interaction and mutual enrichment. Examples of this movement can already be seen in the current SERC initiatives on nonlinear systems and stochastic analysis, and in the increasing cross-fertilisation between theoretical physics and differential geometry and topology. Whereas classical applied mathematics has traditionally used tools that were originally forged in the 19th century, the new branches of applied mathematics are looking to the 21st century to provide the tools that they will need. We are standing on the threshold of a rare opportunity, and it is only right and proper that the London Mathematical Society, as the leading mathematical society in the country, should participate in this exciting future evolution of applied mathematics. Indeed in the past our Society has played just as much a leading role in applied mathematics as in pure mathematics, as can be seen for instance from the list of past presidents including Kelvin, Lamb, Larmor, Rayleigh and Whittaker, and no doubt it will continue to play a leading role in the future.

The heart of any mathematical society is its journals, and at present our three main journals (the *Journal*, the *Proceedings* and the *Bulletin*) specialise mostly in pure mathematics. And since there is no shortage of high calibre papers being submitted to those journals, Council did not wish to disturb that very satisfactory equilibrium. Therefore the logical development was to launch a new journal in applied mathematics. Council planned for it to be a broadly based, international journal, as Professor Brannan has pointed out in the November newsletter. Also I am pleased to announce that two distinguished Russian mathematicians have now agreed to join the Editorial Board: Professor Y. Sinai and Professor Ju.I. Manin.

The name "*Nonlinearity*" was suggested by Professor Michael Berry, and I think it is a splendid name, embracing all those subtle and difficult techniques that have been developed in so many branches of mathematics in order to extend our knowledge from the simple local linear case to the much richer global nonlinear case.

The launching of a new journal is not without serious consideration for the current plight of libraries, who are finding it difficult to maintain subscriptions to existing journals, let alone take on new journals. The Council were influenced, however, by the fact that had the London Mathematical Society not been willing to collaborate in launching the journal, then the Institute of Physics would have launched it alone, and if neither of us had been willing, then at least two commercial companies were waiting in the wings to launch a similar journal and snap up that corner of the market; in which case the journal could well have been much more expensive for our libraries.

As it is, by collaborating with the IOP, we have been able to recruit a far stronger Editorial Board than we might otherwise have been able, and I venture to suggest that we shall be able to attract more distinguished papers in both mathematics and physics. Moreover we have at the same time been able to make the journal available to our own members relatively cheaply. The annual cost will normally be £110, but to members of the London Mathematical Society only £10 (to overseas members £13.50 or \$23.50); meanwhile membership of the Society costs only £6 (or \$12), and reciprocity membership costs only £3 (or \$6). Thus, although libraries are financially hard pressed, at least we are making these exciting new developments in mathematics and physics available relatively inexpensively to members of the Society.

As Professor Brannan mentioned in his announcement, all members will be receiving a complimentary copy of the first issue. Please bring this to the attention of your colleagues in applied mathematics, and encourage them to join the Society if they are interested. Meanwhile may I encourage you to consider sending your own best papers in nonlinear mathematics to the new journal?

E.C. Zeeman

AN OPPORTUNITY

Enclosed with this Newsletter is the Society's brochure, which incorporates an application form for membership. When, as the Presidents suggests, you show the first issue of the new journal *Nonlinearity* to a colleague in applied mathematics who is not a member of the Society, please also pass on the brochure. The President has drawn attention to the considerable saving members of the Society who purchase the new journal for their own use will enjoy, and the brochure describes other benefits of membership. The

President has made the case for attracting the applied community into membership of the Society and I count on your help in exploiting this opportunity. Additional copies of the brochure can be obtained by writing to me at the London Mathematical Society, Burlington House, Piccadilly, London W1V 0NL. Two copies of the order form for *Nonlinearity* are enclosed with this Newsletter.

A.R. Pears
Meetings and Membership Secretary

Treasurer's Report to Annual General Meeting 1987

It is a great pleasure to thank my predecessor, Professor Schwarzenberger, and the Society's Administrator, Susan Oakes, for their invaluable help and support over the last year.

The audited accounts are a snap-shot of our finances on the 31st August. The auditor's report was prepared in October, shortly before the stock market crash, and hence gives a very out-of-date picture of our current position.

The bad news is that the value of our investments in the stock market have fallen very considerably since the 31st August. The London Market fell by over thirty per cent. The silver lining is that we have pursued a policy of keeping substantial cash reserves, earning high rates of interest. Since we are a charitable trust, paying no corporation or income tax, cash is a safe and productive investment when, as at present, inflation is low and interest rates are high.

The financial engine which drives the Society is its publications revenue. Most of the bills for publications have to be paid in sterling but much of the revenue comes from overseas subscriptions, in dollars. The subscription rates have to be decided in May or June for the following winter. The sterling subscription is decided by estimating publication costs but the dollar subscription rate must also be based on an estimate of the dollar exchange rate

for the following January. Last May we anticipated an exchange rate of 1.83 dollars to the pound by next January. Already, by early November, the dollar has fallen to 1.77. If the dollar falls much further by January then we face the prospect of making a loss on all our publications. We would then have to draw on our own reserves but, because of the investment policy described above, would not have to make any forced sale of assets while prices are low. Nevertheless, the situation is worrying.

The proposed new journal, '*Nonlinearity*', is an exciting new development (in collaboration with the Institute of Physics Publishing Ltd). It is also a substantial new financial commitment. A realistic assessment indicates that we must expect to spend money for several years before, as we hope, '*Nonlinearity*' moves into profit.

At the end of August, our stock exchange investments had increased in market value from £1,255k in 1986 to £1,426k but, on 11 November 1987, after the stock market crash, had fallen back to £1,117k. However, because of the high liquidity policy pursued over the last year, bank deposits increased by £343k between the 1986 and 1987 audits.

J.D.M. Wright
Honorary Treasurer

SÉMINAIRE DE MATHÉMATIQUES SUPÉRIEURES – NATO ADVANCED STUDY INSTITUTE

A seminar on "Methods in Field and String Theories" will be held at the Université de Montréal from 6th – 24th June 1988. The seminar is held with the support of NATO, the Ministry of Education of Quebec, the Natural Sciences and Engineering Research Council of Canada, and the Université de Montréal.

The principal speakers are L. Alvarez-Gaume (Boston), E. D'Hoker (Princeton), D. Friedman (Chicago), J.L. Gervais (E.N.S. Paris), D. Gross (Princeton), C. Itzykson (CEN Saclay), R. Jackiw (M.I.T.), D.H. Phong (Columbia), D.G. Quillen

(Oxford), Y. Saint-Aubin (Montreal), R. Stora (Laboratoire d'Annecy de Physique des Particules), L. Vinet (Montreal), P.C. West (Kings College London) and S.-T. Yau (Harvard).

Partial financial assistance will be available for a certain number of participants. Priority will be given to graduate students. Requests for participation or financial assistance must be received before 29th January 1988. Further information is available from G. David, Secretary, Department of Mathematics & Statistics, Université de Montréal, C.P. 6128, Montreal, Quebec, Canada H3C 3J7.

LONDON MATHEMATICAL SOCIETY SUBSCRIPTION

The Society is appreciative of those members who have paid their 1987/88 subscriptions. May we remind those who have not yet paid, that subscriptions were due on 1 November 1987 and that the Society reserves the right to discontinue the supply of periodicals and/or Newsletter to members whose subscriptions remain unpaid by 31st January 1988. If you have misplaced your renewal

of subscription form, please contact the Administrator, Susan Oakes at the LMS Office

Members are reminded that it is possible to pay by direct debit and those who wish to take advantage of this convenient form of payment should request a Direct Debit mandate.

Mordell Centenary

A one day conference on arithmetical algebraic geometry will be held in Cambridge on Saturday, January 30, 1988 to mark the 100th anniversary of the birth of L.J. Mordell. The programme of lectures will be

- 10.00a.m. – 11.00a.m. N. Katz (Princeton, visiting I.H.E.S.)
11.30a.m. – 12.30 p.m. S. Lichtenbaum (Cornell, visiting I.H.E.S.)
2.30p.m. – 3.30p.m. H.P.F. Swinnerton-Dyer (Cambridge – UGC)
4.00p.m. – 5.00p.m. B.Mazur (Harvard, visiting I.H.E.S.)

A dinner will be held in the evening at St Johns College Cambridge (Mordell's College). The total cost of the dinner (including drinks) will be £15.00 per person. Those wishing to attend the dinner are requested to send their cheques (make payable to University of Cambridge) to Mrs E. Jackson, D.P.M.M.S., 16 Mill Lane, Cambridge CB2 1SB, to reach her by Thursday January 21 at the latest.

This conference is receiving financial support from the London Mathematical Society.

DOES PURE MATHEMATICS HAVE A FUTURE ?

The SERC Mathematics Committee has agreed to continue the pool arrangements for Research Studentships next year. From 1988, however, a

significant increase will be made in places earmarked for special schemes and areas. 35 places (about a quarter of the total) will be reserved for

Complex Stochastic Systems
Engineering Mathematics
Information Technology
Mathematical Biology
Non-linear Systems
Numerical Analysis
Solid Mechanics

UNIVERSITY OF OXFORD JUNIOR LECTURERSHIP IN MATHEMATICAL STATISTICS

Applications are invited for the above post. The appointment is for a period of one year from 1 October 1988 to 30 September 1989, and is not renewable. Salary on the scale £9,305 to £10,440 p.a.

Applications on a form available from the Chairman of the Mathematics Board, Mathematical Institute, 24-29 St Giles', Oxford OX1 3LB (Tel. Oxford (0865) 73538) not later than 30 January 1988.

The University is an equal opportunity employer.

1988 LMS PRIZES

In the summer of 1988 Council proposes to award a Polya Prize, a Senior Berwick Prize, and one or more Junior Whitehead Prizes. Accordingly, it has appointed J.H. Coates, S.K. Donaldson, K.W. Gruenberg, J.T. Stuart and E.C. Zeeman to the 1988 Prizes Committee, and invited E.C. Zeeman to be its Convenor.

The Council invites members of the Society to submit their views on possible candidates for the award of these Prizes confidentially in writing to any member of the Committee by 1st March 1988. Nominations for the award of a Junior Whitehead Prize are particularly solicited. Council reserves the right not to make an award if no candidate of sufficient merit is recommended by the Prizes Committee for any particular Prize.

The Polya Prize, which was awarded for the first time in 1987, is awarded to an individual in recognition of outstanding creativity in, of imaginative exposition of, and of distinguished contribution to, mathematics within the United Kingdom.

The Senior Berwick Prize is awarded to a mathematician who on 1st January 1988 is a member of the Society, in respect of a piece of work actually

published by the Society in any of its publications during the period from 1st January 1984 to 31st December 1987.

The Junior Whitehead Prizes are awarded to mathematicians who on 1st January 1988 are normally resident in the United Kingdom or members of the Society mainly educated in the United Kingdom, who are under the age of forty years, and who are not already Fellows of the Royal Society. Grounds for the award may include work in and influence on mathematics. In each case nominations should contain explicit reference to the grounds on which the nomination is based.

No person may be awarded a given Prize more than once, and the President of the Society and the members of the Prizes Committee are ineligible for any of the awards. The detailed regulations and procedure for the award of each Prize may be obtained from Dr. C.J. Mulvey, Mathematics Division, University of Sussex, Falmer, Brighton, BN1 9QH.

C.J. Mulvey
Council and General Secretary

APPLIED PROBABILITY TRUST

The Applied Probability Trust announces two publications to appear in 1988. These should be ordered direct from Executive Editor, Applied Probability, Department of Probability and Statistics, The University, Sheffield S3 7RH, from whom further information may be obtained. Cheques payable to 'Applied Probability', please; alternatively, remittances may be sent to Giro Account No. 64 064 0001.

A CELEBRATION OF APPLIED PROBABILITY Journal of Applied Probability (JAP) Supplementary Volume 25A

This supplementary volume will be published around September 1988 to mark the twenty-fifth anniversary of JAP, which is published in association with the LMS. It will contain material of interest to all those working in probability and related mathematical fields. There will be 27 contributions by former and present editors of the Applied Probability journals, including articles on the history of the subject and the development of the Applied Probability Trust, as well as technical papers. This book

of approximately 320 pages will have an attractive cover. Its regular price will be £25.00 (US\$40.00; \$A.58.00), but for orders placed no later than 1 June 1988 the prepublication price is £22.50 (US\$36.00; \$A.52.20), packing and postage included.

THE MATHEMATICAL SCIENTIST

Starting in 1988, the Applied Probability Trust will assume responsibility for the publication of THE MATHEMATICAL SCIENTIST (TMS). Professor J. Gani (University of California, Santa Barbara) is editor-in-chief with an international editorial board representing various mathematical disciplines. TMS will contain papers on a variety of topics for the general information and enjoyment of mathematicians, statisticians and computer scientists, and we wish to bring it to the attention of LMS members. Each annual volume will consist of two issues distributed in June and December, totalling approximately 128 pages. Volume 13 (1988) costs only £7.00 (US\$12.00; \$A.16.00) for the two issues, postage and packing included.

PHOTOGRAPHS

The Society has an extensive collection of photographs of Presidents, Prize Winners and Honorary Members of the Society. A photograph of a President will appear in each issue of the Newslet-

ter, commencing this month with the first President of the London Mathematical Society, Augustus De Morgan. Jeremy Gray is contributing the accompanying text.



AUGUSTUS DE MORGAN

Augustus De Morgan (1806-1871) who graduated only fourth wrangler, from Cambridge in 1827 because he had read too extensively, became the first professor of mathematics in the new University of London in 1828. He was there until 1831 and again from 1836-1866, each time resigning over points of principle. Best known in his day for his work in logics, and today for his charming "Budget of Paradoxes", he was also a successful teacher and energetic popularizer of mathematics. He was probably the first in England to write on Cauchy's theory of residues. He became the first President of the London Mathematical Society in 1865. His profile adorns the De Morgan Medal, first awarded in 1884.

DIARY

The diary lists Society meetings and other events publicised in previous issues of the Newsletter.

1988

JANUARY

- 7-8 Algebra and Automated Deductions, Surrey (145)
15 LMS Meeting, London

FEBRUARY

- 7-11 Applied Mathematics Conference, Australia (138)
19 LMS Meeting, Leeds

MARCH

- 10-11 Matrix Theory and its Applications, Ireland (145)
14-18 Second International Conference on Hyperbolic Problems, Federal Republic of Germany (138)
18 LMS Meeting, London

APRIL

- 12-14 British Mathematical Colloquium, Exeter (145)

MAY

- 19-20 LMS Meeting, Cardiff

JUNE

- 17 LMS Meeting, London
20-24 Bail V Conference, China (141)
30-10 July Dynamical Systems, LMS Durham Symposia, Durham (145)

JULY

- 1 LMS Evening of Popular Lectures, London
5-8 Theory of Ordinary and Partial Differential Equations, Dundee (144)
5-15 Spinors, Twistors and Complex Structure in General Relativity, LMS Durham Symposia, Durham (145)
11 LMS Evening of Popular Lectures, Liverpool
13-20 1988 St Andrews Colloquium (138 & 145)
17-27 IXth Congress of the International Association of Mathematical Physics, Swansea (138)
18-28 Model theory and groups, LMS Durham Symposia, Durham (145)
24-30 Radicals – Theory and Applications, Japan (143)
25-30 Computational and Applied Mathematics, Belgium (142)
27-3 Aug ICME-6 1988, Hungary (144)

AUGUST

- 21-27 International Conference on General Algebra, Austria (145)

SEPTEMBER

- 16-19 Physical Interpretation of Relativity Theory, London (143)

OCTOBER

- 19-20 Fractals in the Natural Sciences, The Royal Society, London (144)
21 LMS Meeting, London

NOVEMBER

- 18 LMS Annual General Meeting, London

DECEMBER

- 8-9 Physics and Mathematics of Strings, The Royal Society, London (144)

For further information, refer to the figure in brackets, which is a cross reference to the LMS Newsletter Number.