THE LONDON MATHEMATICAL SOCIETY NEWSLETTER

FORTHCOMING SOCIETY MEETINGS

Friday-Saturday, 12-13 May 1995, Oxford University
A Hundred Years of Analysis
P.R. Halmos, J-P. Kahane, J. Lützen, S.J. Patterson,
R. Remmert, F. Smithies
Friday 16 June 1995, Burlington House
D.G. Vassiliev, K.R. Parthasarathy
Friday-Saturday 20-21 October 1995, Scientific Societies' Lecture Theatre
Stochastic Analysis
Friday 17 November 1995, Burlington House

LMS COUNCIL DIARY

Council met on Friday 17 March, and sadly learned of the deaths of two former Council members, John Todd FRS (LMS President 1967-9) and Alan Tayler CBE.

We heard that the working group on the mathematical preparedness of undergraduates, set up (after our meeting in January) under the chairmanship of Professor A.G. Howson, includes representatives of the Royal Statistical Society and the Institute of Mathematics and its Applications. We also received a booklet published recently by the Engineering Council, which adds to the mounting evidence that the Society is not alone in its concerns about the mathematical skills of university entrants.

We took the fateful decision to go electronic in several areas. The first visible signs of this will be in the LMS electronic archive, which should incorporate WWW pages by the time this Newsletter appears. The archive will contain items connected with meetings and publications of the Society. It will not contain the LMS membership list; Council has always regarded this as private to members. We agreed that it should contain the 1996 edition of the Mathematical Who's Where, but only after individuals have been given a chance to withhold their names if they wish.

Not long ago, Council invited members to write in about possible regional activities. There were only three responses, and so we decided not to go ahead on this front. One suggestion which did reach us may in part be covered by the Society's new Scheme 3 for the Support of Joint Research Groups. We noted a request for more Popular Lectures.

Wilfrid Hodges

LONDON MATHEMATICAL SOCIETY
NOTICE OF GENERAL MEETING

There will be a General Meeting of the Society on Friday 16 June 1995 at 3.30 pm in the Linnean Society Lecture Room, Burlington House, Piccadilly, London W1, to consider proposals by the Council of the Society concerning By-Laws I,7, I,9 and II,1.

The proposed changes to By-Laws I,7 and I,9 are concerned with the procedure for validation of members' votes in Council elections: the current procedure is that each voting member's validating signature and printed name are put on the voting paper; the Council would like to change to a procedure which requires each voting member's validating signature and printed name to be put on the outside of a sealed envelope containing the voting paper. In detail, the Council proposes that the existing By-Laws I,7 and I,9, reproduced below, be deleted and replaced by new versions, also printed below.

Text of the existing By-Law I,7

Each Member voting shall make use of the list as a balloting list by striking out those names for which a vote is not to be cast. Each completed balloting list shall be validated with the voter's signature and legibly written name. Any balloting list not validated in this way shall be held to be null and void.

Text of the proposed By-Law I,7

Each Member voting shall make use of the list as a balloting list by striking out those names for which a vote is not to be cast. Each completed balloting list shall be placed inside a voting envelope addressed to "The Scrutineers, London Mathematical Society", and the envelope shall be sealed and then validated with the voter's signature and legibly written name. Any vote not validated in this way shall be held to be null and void.

Text of the existing By-Law I,9

Members who are unable to attend the General Meeting shall be allowed to vote in the election of the Council and Officers by sending their balloting lists, duly signed, addressed to "The Scrutineers of the London Mathematical Society", at the Registered Office of the Society.

Text of the proposed By-Law I,9

Members who are unable to attend the Annual General Meeting shall be allowed to vote in the election of the Council and Officers by sending their voting envelopes, duly sealed and validated, to "The Scrutineers, London Mathematical Society" to reach the Registered Office of the Society at least 36 hours before the time appointed for the Meeting. Such votes will then be given by the Scrutineers acting as proxy for such Members.

The Council of the Society has, in the light of Statute 11, increased the annual subscription of individual members for 1995-96 by £1.00; Council has also increased the prices per volume of the **Bulletin,** the **Journal** and the **Proceedings** to individual members for 1995-96 by 75 pence. The Council proposes to delete the existing By-Law II,1 and to substitute that printed below. The new By-Law II,1 would record the new rates.

Text of the proposed By-Law II,1

The annual subscription to the Society of Ordinary Members for the 1995-96 session shall be £16.50. The prices of the Society's periodicals to Ordinary Members for the 1995-96 session shall be: **Proceedings** £16.00 per volume, **Journal** £16.00 per volume, **Bulletin** £16.00 per volume.

R. Y. Sharp
Council and General Secretary

LONDON MATHEMATICAL SOCIETY
AND
BRITISH SOCIETY FOR THE
HISTORY
OF MATHEMATICS

JOINT TWO-DAY MEETING
FRIDAY 12th & SATURDAY 13th MAY 1995
MATHEMATICAL INSTITUTE, OXFORD

A HUNDRED YEARS OF ANALYSIS

FRIDAY

2.20	Opening Session
2.30	Professor Jean-Pierre Kahane (Paris) *Interplay between Taylor series, Fourier series and Brownian motion*
3.30	Tea
4.00	Professor S.J. Patterson (Göttingen) *The Riemann Hilbert problem*
5.15	Professor Dr Reinhold Remmert (Münster) *From Riemann surfaces to complex manifolds*

SATURDAY

9.15	Professor Jesper Lützen (Copenhagen) *An overture to functional analysis. The beginnings of spectral theory*
10.15	Coffee
10.45	Dr Frank Smithies (Cambridge) *The shaping of functional analysis, 1900 to 1950*
12.00	Professor Paul R. Halmos (California) *A century of operators*

A dinner will be held at St Cross College, Oxford on the evening of Friday 12 May at 7.00 pm for 7.30 pm. The cost of the dinner will be £20.00 per person, inclusive of wine. Those wishing to attend should inform Miss Susan M. Oakes, London Mathematical Society, Burlington House, Piccadilly, London W1V 0NL, enclosing a cheque payable to "The London Mathematical Society" to arrive no later than Friday 5 May.

Enquiries may be addressed to Dr Peter M. Neumann, The Queen's College, Oxford OX1 4AW (e-mail: neumann@vax.ox.ac.uk).

VISIT OF
PROFESSOR M.J. ABLOWITZ

Professor Ablowitz is visiting the UK with the support of a Scheme 2 grant from the LMS. He will lecture at 3.00 pm on Friday 5 May (Loughborough University of Technology) on "1895-1995 Integrability and Applications" and at 11.30 am on Tuesday 9 May (University of Kent) on "Integrability, Painlevé Equations and Novel Systems". For further information about the visit of Professor Ablowitz, contact Dr A.S. Fokas, Loughborough University, tel: 01509 222785, e-mail: a.s.fokas@lut.ac.uk.

VISIT OF
PROFESSOR G.T. RÜTTIMANN

Professor G.T. Rüttimann of the University of Berne will be visiting the UK as an LMS Scheme 2 Visitor during May. He will give the following talks: 5.00 pm Tuesday 16 May (Mathematics Institute Oxford) "Structural projections in Jordan triple systems"; 2.30 pm Wednesday 17 May (Department of Mathematics, Reading) "Inner ideals in JB^*-triples"; 11.00 am Sunday 21 May (Isaac Newton Institute, Cambridge) "The lattice of tripotents in a JBW^*-triple".

VISIT OF
PROFESSOR I. FESENKO

Professor I. Fesenko (St. Petersburg and Heidelberg) will be visiting the UK as an LMS Scheme 2 Visitor during the period 13-21 May. Professor Fesenko works in Algebra and Number Theory, contributing in particular to extensions of class field theory and K-theory. He will visit the University of Cambridge (DPMMS) 13-16 May, giving a lecture on 16 May. He will be in Manchester (UMIST and Manchester University) and lecturing on 17 May. The remainder of the visit will be spent in London (KCL), and he will give a lecture at ICSTM London on 18 May. For more details, contact Professor J.H. Coates (Cambridge), Professor M.J. Taylor (UMIST), Professor C.J. Bushnell (London KCL) or Dr M.E. Keating (London ICSTM).

VISIT OF
DR K.B. LAURSEN

Dr K.B. Laursen of the Matematisk Institut of the University of Copenhagen will be visiting the UK in May 1995 with the support of a Scheme 2 grant from the LMS. He will lecture to the Yorkshire Functional Analysis Group in the School of Mathematics, University of Leeds at 3.30 pm on Tuesday 9 May (contact H.G. Dales at pmt6hgd@leeds.ac.uk), to the Analysis Seminar in DPMMS, Cambridge, at 2.15 pm on Wednesday 17 May (contact G.R. Allan at gra3@pmms.cam.ac.uk), and to the Joint King's/Imperial College Seminar in Room 410, Huxley Building, Imperial College, London, at 3.00 pm on Thursday 18 May (contact J. Erdos at udah200@kcl.ac.uk). The title of all the talks is: Local Spectral Theory and its Applications.

1995 LMS LIST OF MEMBERS

The Society is preparing a new List of Members which will appear in September 1995. A letter showing the information for your entry in the List of Members has been sent to every member. If any of the information is incorrect or incomplete please return the form enclosed with the letter to the LMS Office by Wednesday 31st May 1995. If you have not received the letter please let Susan Oakes, the LMS Administrator, know by telephone 0171 437 5377, fax 0171 439 4629 or e-mail lms@bay.cc.kcl.ac.uk.

LONDON MATHEMATICAL SOCIETY

Spitalfields Day

Saturday 10 June 1995

Royal Society of Edinburgh
22/24 George Street, Edinburgh

BIOMATHEMATICS

(associated with the ICMS Programme "Mathematics in Medicine")

Programme

10:00	Dr J. Sherratt (Warwick) *Mathematical modelling of wound healing*
11:15	Coffee
11:45	Professor T.J. Pedley FRS (Leeds) *Flow and mass transport in the lungs and cardiovascular system*
13:00	Lunch
14:15	Dr M. Nowak (Oxford) *Evolutionary dynamics of HIV*
15:30	Tea
16:00	Professor R.M. May FRS (Oxford) *The immune system as a nonlinear dynamical system*

Anyone who is interested is welcome to attend. Further details may be obtained from: Louise Williamson, ICMS, 14 India Street, Edinburgh EH3 6EZ; e-mail: icms@maths.ed.ac.uk; tel: 0131 220 1777; fax: 0131 220 1053. Lunch will be provided at a nominal charge; please let the ICMS know by 29 May if you intend to come.

PROGRAMME AND CONFERENCE FUND

Members are reminded that the Society's Programme and Conference Fund is used to provide financial support for visitors to the UK and for conferences. The fund is administered by the Society's Programme Committee and information about the proposals it is willing to consider was given in the January 1995 issue (No. 223) of the Newsletter. The Meetings and Membership Secretary, Dr D.J. Collins, will be pleased to discuss proposals informally with potential applicants and to give advice on submission of an application to the Society. He can be reached at: School of Mathematical Sciences, Queen Mary and Westfield College, Mile End Road, London E1 4NS; telephone 0171-975-5480; e-mail d.j.collins@uk.ac.qmw. Applications submitted by 31 May 1995 will be considered by Programme Committee towards the end of June 1995.

RESEARCH IN PAIRS
New programme at Oberwolfach

The focus of "Research in Pairs" is to bring together pairs of researchers from different places to carry out joint research at the institute. The stay of a research pair (or in exceptional cases 3 or 4 people) can last between 2 weeks and 3 months. The institute will provide office space, accommodation and an allowance for incidental expenses. Travel expenses can only be reimbursed in exceptional cases. Applications can be made at any time. Applicants should submit a curriculum vitae, a list of publications, a short summary of the joint project and dates for the proposed visit. Applications should be sent to the director of the institute: Professor Dr M. Kreck, Mathematisches Forschungsinstitut, Oberwolfach, Lorenzhof, 77709 Oberwolfach-Walke, Germany; e-mail: rip@mfo.de; www: http://www.MFO.DE. The programme is supported by the Volkswagen-Stiftung.

NORTH BRITISH FUNCTIONAL ANALYSIS SEMINAR

A meeting of the North British Functional Analysis Seminar will be held at the University of Edinburgh, George Square, from 2.30 pm on Monday 29 May until midday on Tuesday 30 May 1995. The speakers will be Dr J. Brodzki (Durham) on Monday and Professor Jose Luis Torrea (Madrid) on Tuesday. All interested are most welcome to attend. For further information contact: Dr Gordon Blower, NBFAS Secretary, Lancaster University; tel: 0524-593962; fax: 0524-592681; e-mail: maa008@uk.ac.lancs.cent1.

NUMBER THEORY AT YORK

A one-day meeting in York on Number Theory is being arranged for Wednesday 24 May. There will be three talks, the first starting at 11:30 am and the last finishing at 5:00 pm. Dr R. Nair (Liverpool) and Professor R.W.K Odoni (Glasgow) have provisionally accepted invitations to speak. Lunch will be available. All interested are very welcome. For further details please contact: Dr M.M. Dodson, Department of Mathematics, University of York, York YO1 5DD; tel: 0904-433071; e-mail: mmd1@unix.york.ac.uk

GREGYNOG COLLOQUIUM

The 1995 University of Wales Pure Mathematics Colloquium will be held at Gregynog on 30, 31 May and 1 June. Invited speakers include Marius Dadarlat (Purdue), Simon Donaldson (Oxford), Juerg Fröhlich (to be confirmed, Zürich), John Jones (Warwick) and Paul Smith (Seattle). Further information may be obtained from David E. Evans at Swansea. The meeting is supported by the London Mathematical Society.
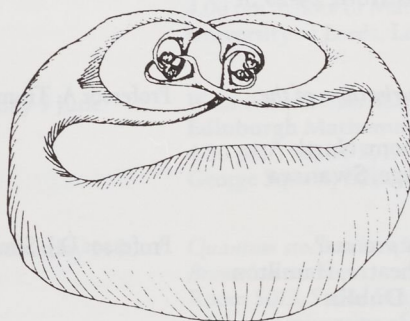
LONDON MATHEMATICAL SOCIETY
1995 POPULAR LECTURES

Manchester University - Friday 2 June
Edinburgh University- Thursday 15 June
Imperial College - Friday 30 June

Professor Peter Saunders
MEASURING THE MARIGOLD

**"What mathematics can tell us about
flowers ... and fruit flies ... and Friesians ... "**

Professor Nigel Ray
WILD GEOMETRY

**"Tame geometry is epitomised by
familiar shapes of everyday life.
Wild geometry is much more
mysterious, and in this talk we
introduce some of its objects, and
discuss their growing importance."**

MANCHESTER Commences at 7.00 pm, 8.00 pm refreshments, ends at 9.30 pm. Lecture Theatre B, Roscoe Building, University of Manchester. Admission free, with ticket in advance. Apply by Friday 26 May to Dr M. Prest, Department of Mathematics, University of Manchester, Manchester M13 9PL. A stamped addressed envelope would be appreciated.

EDINBURGH UNIVERSITY Commences at 2.00 pm, 3.00 pm refreshments, ends at 4.30 pm. Lecture Theatre A, David Hume Tower, George Square, Edinburgh. Admission is free. Enquiries to Dr P. Heywood, Department of Mathematics & Statistics, Edinburgh University, James Clerk Maxwell Building, The King's Buildings, Edinburgh EH9 3JZ.

LONDON Commences at 7.30 pm, 8.30 pm refreshments, ends at 10.00 pm. The Great Hall, Sherfield Building, Imperial College, South Kensington, London SW7. Admission free, with ticket in advance. Apply by Monday 26 June to Miss S.M. Oakes, London Mathematical Society, Burlington House, Piccadilly, London W1V 0NL. A stamped addressed envelope would be appreciated.

LONDON MATHE

1995 HARDY L

The 1995 Hardy Lecturer, Professor K.R. Parthasarathy (Indian

Day	Topic/Time/Location	Contact Person
Sunday 21 May	*What is a quantum Markov process?* 4.30 pm Isaac Newton Institute, Clarkson Road, **Cambridge**	Dr D.J.H. Garling Professor J.D.M. Wright
Tuesday 23 May	*Quantum stochastic calculus starting from Brownian motion* 5.00 pm Mathematical Institute, 24-29 St Giles, **Oxford**	Dr C.J. Batty
Wednesday 24 May	*Azéma martingales as perturbations of the Wiener process* 4.00 pm Video Lecture Room, North Arts Building, University College, **Swansea**	Professor A. Truman
Friday 26 May	*What is a quantum Markov process?* 7.30 pm Synge Lecture Theatre, Hamilton Building, Trinity College, **Dublin**	Professor D.J. Simms
Tuesday 30 May	*Quantum stochastic calculus starting from Brownian motion* 2.30 pm Dept of Mathematics, University of Manchester, Oxford Road, **Manchester**	Professor R.J. Plymen
Wednesday 31 May	*A boundary theory for quantum Markov processes* 2.00 pm Room C29, Maths & Physics Building, University of Nottingham, **Nottingham**	Dr J.M. Lindsay

All interested are welcome to attend any of the meetings
check the time and venue with the department concerned.
may be directed to the LMS Administrator, Susan Oakes,

...dian Statistical Institute, Delhi) will give the following lectures:

Day	Topic/Time/Location	Contact Person
Friday 2 June	*Quantum stochastic calculus starting from Brownian motion* 2.30 pm School of Mathematics Loten Hall, University of Hull, **Hull**	Professor N.J. Cutland
Thursday 8 June	*Construction of classical and quantum self-similar fields from Maasen kernels* 4.00 pm School of Mathematics, University of Leeds, **Leeds**	Professor J.T. Kent
Friday 9 June	*What is a quantum Markov process?* **Edinburgh Mathematical Society** 4.30 pm Theatre B, David Hume Tower, George Square, **Edinburgh**	Dr P. Heywood
Wednesday 14 June	*Quantum stochastic calculus starting from Brownian motion* Room S013, Social Studies Building, 2.30 pm University of **Warwick**	Dr M-C. van Lieshout
Thursday 15 June	*Azéma martingales as perturbations of the Wiener process* 4.30 pm Dept of Mathematics, **Imperial College,** Huxley Building, Exhibition Road, London	Professor C.M. Goldie Professor T.J. Lyons
Friday 16 June	*Quantum stochastic calculus* **LMS Hardy Lecture** 5.00 pm Linnean Society Rooms, Burlington House, Piccadilly, London W1V 0NL	Dr D.J. Collins

...ings addressed by the Hardy Lecturer, but it is advisable to ...ned. General enquiries about Professor Parthasarthy's visit ...akes, telephone 0171 437 5377.

EPFL

ÉCOLE POLYTECHNIQUE
FÉDÉRALE DE LAUSANNE

The Swiss Federal Institute of Technology in Lausanne (EPFL) invites applications for a

Faculty Position in Applied Probability Theory

The teaching duties will include basic mathematics courses for engineering students, as well as introductory and advanced courses for students of mathematics. Willingness and talent to teach at all university levels are a necessary requirement.

The new professor is expected to develop an important research programme in collaboration with the professors of the Department of Mathematics as well as with the professors of one or the other of the eleven other Sections of EPFL. He/she must have thorough knowledge of the theoretical branches of probability theory like Markov processes. Competence in the applications of probability theory in one of the following areas would be an advantage: queuing, stochastic optimisation, mathematical biology, communications theory.

Applicants should have shown their ability to carry out and to direct high level research projects.

Female applicants are particularly welcome.
Deadline for applications: 31 July 1995
Start of the appointment: as convenient.

Interested persons can write to Présidence de l'EPFL, CE-Ecublene, CH- 1015 Lausanne, Suisse, for more ample information concerning this position.

ROLLO DAVIDSON TRUST

The Trustees of the Rollo Davidson Trust give notice that they have awarded Rollo Davidson Prizes for 1995 to Philippe Biane (University of Paris VI) for his work on Brownian motion and quantum probability, and to Yuval Peres (University of California at Berkeley) for his work on probability on trees and connections with Brownian motion.

ISAAC NEWTON INSTITUTE FOR MATHEMATICAL SCIENCES WWW SERVER

The Isaac Newton Institute for Mathematical Sciences would like to announce its new WWW server. The URL is:
< URL:http://www.newton.cam.ac.uk/ >
The page contains information about the Institute, including scientific programmes, workshops, events, and visitors to the Institute, together with more local information. We have provided links to some other mathematics-related sites around the world.

NONLINEAR PHENOMENA SOLITONS AND SYMMETRIES

A One-Day Workshop on Nonlinear Phenomena, Solitons and Symmetries will be held on Tuesday 9th May 1995 in the Biology Lecture Theatre 2, Institute of Mathematics and Statistics at The University of Kent at Canterbury.

10.30-10.45	Welcome and Introductory Remarks, Professor R. Sibson (Vice-Chancellor, University of Kent at Canterbury)
10.45-11.30	Professor A.S. Fokas (University of Loughborough) "Waver Waves, Multidimensional Diffraction, Hele-Shaw Problems and the Complex Plane"
11.30-12.15	Professor M.J. Ablowitz (University of Colorado at Boulder, USA) "Integrability, Painlevé Equations and Novel Systems"
12.15-14.00	Lunch
14.00-14.45	Professor P.A. Clarkson (University of Kent at Canterbury) "Symmetries and Exact Solutions of some $(2+1)$-dimensional Equations"
14.45-15.30	Dr N. Joshi (University of New South Wales, Australia & Newton Institute, Cambridge) "Nonlinear Differential Equations and the Painlevé Property"
15.30-16.00	Tea
16.00-16.45	Professor D.G. Crighton FRS (University of Cambridge) "Voidons"
16.45-17.30	Professor M.D. Kruskal (Rutgers University, USA & Newton Institute, Cambridge) "The Role of Asymptotic Analysis in the Painlevé Property and Integrability"

Financial support for this Workshop is provided by the London Mathematical Society. Anyone interested in attending this meeting, please contact Peter Clarkson, Institute of Mathematics, University of Kent, Canterbury CT2 7NF (tel: 01227-764000, e-mail: P.A.Clarkson@ukc.ac.uk).

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Making Mathe

Modular Mathematics is a new series of introductory texts for undergraduates. Building on both skills and knowledge acquired at A level, each book provides a lively and accessible account of the subject. Examples and exercises are used as teaching aids throughout and ideas for investigation and project work help to place the subject in context. Where appropriate, the use of computer packages is also encouraged. Student motivation is enhanced by the inclusion of historical contexts, real life situations and the discussion of links with other areas of mathematics. Each text ends with a chapter looking ahead to developments from the material covered and giving a general overview to help students make sensible decisions in choosing their own pathways through modular programmes.

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SOCIÉTÉ MATHÉMATIQUE DE FRANCE

Founded in 1872, "Société Mathématique de France" (SMF) is one of the oldest scientific societies dedicated to mathematics. Since its creation, it has featured among its members the most famous mathematicians in the world.

An exchange and meeting place SMF organizes on a regular basis debates on scientific and academic life and the importance of mathematics in society. Two of its publications, the Officiel and the Gazette, announce the main events (seminars and conferences), give information on open positions for faculty and also convey opinions of the members on various issues. Bi-annual scientific sessions on the "state of the art" aim at bringing together the most advanced researchers in a subject as well as students and non-specialists. The annual meeting, open to a very broad audience, offers a series of lectures on a topic of current interest.

A national mission Created by and for the mathematical community, SMF forms links between mathematicians and those in charge in politics and economics. Through joint actions, SMF keeps close ties with most academic or professional groups interested in the future of mathematics. SMF's concern to inform a wider group about its existence and activities led to the establishment of the Prix d'Alembert which every two years rewards a work making a piece of mathematics accessible to the public.

Scientific Publications SMF publishes three mathematical journals. Founded in 1873, the "Bulletin" and its supplement, the "Memoires", publish original articles of high quality. The journal "Asterisque", created at the centenary of SMF edits monographs as well as notes on major international conferences and Bourbaki's seminars. This journal has very rapidly succeeded to rank among the best publications in the field. Finally, the Journal "Histoire des Mathématiques" was created in 1994 to fill a need on the subject. Besides these regular publications, SMF is starting a new collection for diverse scientific monographs chosen only through the criterion of quality.

An international scope SMF maintains institutional ties (in particular reciprocity agreements) with most foreign mathematical societies. It is a member of EMS, "Société Européenne de Mathematique", that SMF helped establish and with which it organized the first European Congress in Paris in 1992.

A modern structure SMF is located on two sites. Its headquarters are established in the beautiful refurbished "Institut Henri Poincaré". The meeting centre of Marseille-Luminy (CIRM), endowed with an important library, each year welcomes many international conferences. In the same location, the House of SMF ensures the diffusion of SMFs publications. Active and influential, Société Mathématique de France is an essential instrument and vehicle for the future of mathematics.

How to become a member of the SMF You can get a membership application form by mail at: Société Mathématique de France, Institut Henri Poincaré, 11 rue Pierre et Marie Curie, 75231 Paris cedex 05, France. The membership of the Société Mathématique de France includes: A year's subscription to the "Gazette des Mathématiciens"; A membership card (allowing reductions in some bookstores and the possibility to join the "Research Library of the Jussieu Campus"); Free issues of "Asterisque" (new subscribers); Free directory of the Society; Reduced prices on subscriptions and publications of the SMF.

SIR FREDERIC E. HARMER

Sir Frederic E. Harmer, who was elected a member of the London Mathematical Society on 16 June 1939, died on 24 February 1995.

LEICESTER-MANCHESTER-SHEFFIELD TOPOLOGY SEMINAR AND THE 1995 ADAMS LECTURES

The University of Manchester has established a Visiting Adams Lectureship in memory of Frank Adams. This year it will be held by Professor Victor Buhstaber, of Moscow. He will be in Manchester from 10 June until 21 June, and will deliver the following lectures: Monday 12 June, "Groups of diffeomorphisms of the superline and the Adams - Novikov spectral sequence"; Tuesday 13 June, "Semigroups of maps into groups, doubling of Hopf algebras, and complex cobordism"; Wednesday 14 June, "Multivalued groups and integrable correspondences". Each lecture will take place at 2.00 pm in the Mathematics Department, University of Manchester; further details may be obtained from Nigel Ray (nige@ma.man.ac.uk) or

Grant Walker (grant@ma.man.ac.uk). The Adams Lecturer is sponsored by KPMG Peat-Marwick.

This programme will form the nucleus of the inaugural meeting of the Leicester-Manchester-Sheffield LMS sponsored Topology Seminar, which will take place from 12 to 14 June. The theme of the meeting will be "Novel approaches to algebras of cohomology operations"; other visitors from abroad are expected to participate, hopefully supported by EPSRC and the Manchester University Research Support Fund. Further details may be obtained from Nigel Ray, or from either of the other organisers, John Greenlees (j.greenlees@sheffield.ac.uk) and John Hunton (jrh@cs.st-and.ac.uk).

THE BRITISH SOCIETY FOR THE HISTORY OF MATHEMATICS

The British Society for the History of Mathematics was founded in 1971. Since then, it has built an international reputation as the leading organization for the promotion of historical studies of mathematics. Its aims are twofold:

- to promote research into the history of mathematics
- to develop its use at all levels of education

The BSHM arranges day and residential meetings and acts as a central focus for the dissemination of knowledge about research and other activities involving the history of mathematics in universities, schools, and elsewhere. The 300 members of the Society come from many walks of life, teachers at all levels, from universities to primary schools, students of mathematics and the history of science, and people with a general interest from many directions. About 25% of the members are from overseas.

Recent meetings have included the very successful Cayley Day in Oxford, HIMED

95: History of Mathematics Courses and Resources, at Middlesex University, and a three-day residential meeting on Research in Progress, at Gregynog. Forthcoming meetings include joint meetings with the London Mathematical Society on A Hundred Years of Analysis (12-13 May: Mathematical Institute, Oxford) and the Edinburgh Mathematical Society on Mathematics in Scotland 1600-1900 (20-21 July: Royal Society of Edinburgh) and a weekend meeting on Mathematics in Victorian Britain (16-17 September: Kellogg College, Oxford).

For further details of BSHM meetings, contact Dr June Barrow-Green or Dr Robin Wilson, Faculty of Mathematics and Computing, The Open University, Milton Keynes MK7 6AA (e-mail: j.e.barrow-green@open.ac.uk or r.j.wilson@open.ac.uk); for information about membership, contact the Membership Secretary, 25 Hollow Croft Road, Willenhall, W. Midlands WV12 5YS (01922-401913).

ICIAM 99
(1999 International Conference on Industrial and Applied Mathematics)

ICIAM 95 is soon to take place in Hamburg, 3 - 7 July, and no doubt will be a great success. Plans for ICIAM 99 to be held in Edinburgh are already being formulated under the umbrella of the UK ICIAM 99 Action Group, convened by Professor J.C.R. Hunt, FRS. The year 1999 provides a great opportunity for innovation and identification of the direction and impact of applied mathematics in the next century. Indeed, it could provide opportunities to encourage industry and other practitioners of applied mathematics to present their problems and visions for the future. Cross-disciplinary themes are also to be encouraged both within mathematics and between mathematics and other disciplines. Such themes could for example, involve mathematics and computers, mathematics and the environment, biology and medicine. Mathematics and industry could involve several inter-related disciplines.

The scientific committee, which is in the process of being formed, would encourage sub-committees to form in specialist areas. These sub-committees would organise sectional lectures and mini symposia.

Mathematical research progresses with some areas developing rapidly, while others appear to be giving ground to new initiatives and innovations. For example, what has happened to catastrophe theory as an applied area of research, which was such a 'hot' topic during the 70's and 80's? Now we are in the world of chaos and non-linear systems. How will these be viewed in 1999? It has been suggested by the ICIAM Action Group that LMS and other societies be invited to suggest ideas for research themes likely to be of importance for the future which could be announced at ICIAM 95 and a review of progress forming a part of the programme of ICIAM 99.

The Society would like to extend this invitation to members. Suggestions should be sent to Professor Brian Sleeman at Dundee University (e-mail: bsleeman@mcs.dundee.ac.uk).

B.D. Sleeman

Thomas Archer Hirst (1830-92) was somewhat unusual for a British mathematician of his time in having no UK university training. A graduate of Marburg University, where he took his PhD in 1852, he also studied at Göttingen, where he met Gauss and Weber, and at Berlin, where he attended the lectures of Dirichlet and Steiner. He travelled widely, forming friendships with many leading European mathematicians, including Poinsot, Liouville and Chasles in France, and Brioschi, Tortolini and Cremona in Italy. As a result, he was better informed about recent developments in mathematics on the Continent than many of his British contemporaries, among whom he had many friends, most notably John Tyndall (1820-93), Arthur Cayley (1821-95), James Joseph Sylvester (1814-97) and Augustus De Morgan (1806-71). He is currently the subject of research at the Open University by J. Helen Gardner and Dr Robin J. Wilson.

It is hardly surprising to learn that Hirst was a regular and active correspondent. Corroboration of this is found in a large collection of letters to him, together with drafts of some of his replies, which forms part of the library of the London Mathematical Society currently housed in University College London. Presented to the Society in the 1960s by their former librarian and Vice-President, Professor Harold Simpson (1876-1974), the collection contains 546 letters, covering nearly 40 years from 1853 to 1892, the year of Hirst's death. A list of the 73 contributors reads like a Who's Who of 19th century mathematicians, over half of this number being foreign correspondents.

The most frequent contributors are Cayley (49 letters), Sylvester (57), Sturm (79) and Cremona (95), although letters from Bompas, Chasles, De Morgan, Mannheim, W. Roberts, Salmon and Tortolini all reach double figures. Some of the English letters relate to the early history of the LMS. For example, there is the now famous circular of 1864 from George Campbell De Morgan and Arthur Cowper Ranyard requesting *the honour of your attendance at the first meeting of the 'University College Mathematics Society'*, as well as letters from Cayley and Sylvester expressing a desire to join. Sylvester's letter mentions his discovery of a simple proof of Newton's rule for finding imaginary roots of an algebraic equation which *I should have much pleasure in bringing....before the Mathematical Society of London about which you spoke to me some time back.* This important result was presented in June 1865, and became the first mathematical paper to be published by the Society.

Other items of interest include letters from Plücker (1866-67) regarding the models of complex surfaces he was sending to Hirst as a present; a short controversy with De Morgan in 1866 over a series of lectures with the proposed title of "Modern Geometry"; and letters from Cayley, Salmon and H.J.S. Smith endorsing Hirst's (unsuccessful) 1865 candidacy for Boole's chair at Cork. In addition, there are two rogue letters which are neither to nor from Hirst; one is from Gauthier-Villars to Mannheim (1868), the other is from Cayley to Sylvester from 1865 in which the former encourages the latter's interest in the modelling of algebraic surfaces, but warns that *"for so complicated a surface, a careful study should I think be necessary in order to see how many and what sections are sufficient for the formation of the model"*.

In short, this collection is a valuable source of information, not just for those interested in Hirst or the early days of the LMS, but for anyone involved in researching the history of mathematics in the 19th century. Further information may be obtained from the Archivist, Ms. Gillian M. Furlong, The Library, University College London, Gower Street, London WC1E 6BT.

Adrian Rice

The above is an abridged version of an article which appeared in the BSHM Newsletter, reprinted here by kind permission of the Editor.

FELLOWSHIP OF THE ROYAL SOCIETY

Amongst those recently elected Fellows of the Royal Society were: F.E. Corrigan, Professor of Mathematics, University of Durham; E.B. Davies, Professor of Mathematics, King's College London; R.S. Ellis, Plumian Professor of Astronomy, University of Cambridge; F.M. Leslie, Professor of Mathematics, Strathclyde University; T.J. Pedley, Professor of Applied Mathematics, University of Leeds; R.L. Taylor, Reader in Pure Mathematics, University of Cambridge. J.A. Wheeler, Emeritus Professor of Physics, Princeton University, was elected a Foreign Member.

THE NEW MATHS FOR THE NEW LaTeX

The UKTeX Users' Group is holding a one-day meeting at Queen Mary and Westfield College on Wednesday 7 June 1995 to introduce the improved Mathematical capabilities of LaTeX. Topics will include the American Mathematical Society's new class and package files (what you used to think of as style files) for Mathematics, and use of Maths fonts such as Fraktur, and (we hope) use of the file lms.sty. Speakers include Michael Downes (AMS technical support), David Carlisle and Alan Jeffrey. The day will conclude with a Question-and-Answer session. For further details and an application form, contact R.A. Bailey, School of Mathematical Sciences, Queen Mary and Westfield College, Mile End Road, London E1 4NS; e-mail: r.a.bailey@maths.qmw.ac.uk; tel: 0171 975 5517.

JOHN LIGHTON SYNGE

Professor J.L. Synge, FRS who was elected a member of the London Mathematical Society on 15 January 1925, died on 30 March 1995, at the age of 98.

MEETING IN HONOUR OF RICHARD V. KADISON IN CELEBRATION OF HIS 70TH BIRTHDAY

This meeting, which is supported by a grant from the London Mathematical Society, will take place at the University of Newcastle upon Tyne on the afternoon and evening of Saturday 22 July 1995. The afternoon session, held in the Department of Mathematics and Statistics and starting at 2.30 pm, will include lectures by J. Cuntz (Heidelberg) and E.C. Lance (Leeds), covering developments in some of the areas of mathematics in which Professor Kadison has been interested. In the evening there will be a dinner, open to participants in the meeting and their partners, at which Professor and Mrs Kadison will be Guests of Honour.

Further information may be obtained from Professor J.R. Ringrose, Department of Mathematics and Statistics, University of Newcastle, Newcastle upon Tyne NE1 7RU, England: fax (0191) 222 8020.

ONE-DAY COMBINATORICS COLLOQUIUM

A One-Day Combinatorics Colloquium will be held in the Mathematics Department at Reading University on Wednesday 24 May 1995 from 10 am until 5.30 pm approximately. Everyone is welcome to attend. The following have so far agreed to speak (provisional titles are given): Professor R.A. Bailey (QMW), "Extremal row-column designs with adjusted orthogonality"; Dr S.D. Cohen (Glasgow), "Combinatorial applications of complete polynomial factorization"; Professor J.W. Essam (RHBNC), "Chromatic and flow polynomials for directed graphs with applications to percolation theory"; Dr F.C. Holroyd (Open), "Strengthening Hadwiger's Conjecture"; Dr M.R. Jerrum (Edinburgh), "Construction versus existence in the theory of random graphs"; Dr R. Lewis (Sussex), "Partitions and their ranks and cranks"; Professor A.O. Morris (Aberystwyth), "Hall-Littlewood symmetric functions and their applications"; Dr A.D. Scott (Cambridge), "Induced trees in graphs of large chromatic number"; Dr B. Shephard (LSE), "Orientations with no even directed circuits".

Support from the London Mathematical Society, from the British Combinatorics Committee, and from the Mathematics Department at Reading is gratefully acknowledged.

ONE-DAY CONFERENCE IN STATISTICAL MECHANICS STATMECH-11

This one-day conference, to be held on Thursday 15 June 1995, will be similar in format to previous meetings of the series and will consist of short contributed talks, of about 20 minutes duration, together with two invited lectures, which this year will be given by A. Verbeure (Leuven) and I.D. Lawrie (Leeds). There is a registation fee of £5 for this meeting. The deadline for those wishing to contribute a talk is 8th May (title only required).

The organisers are grateful for financial support for this conference from the London Mathematical Society Conference Fund. For further details contact: D.A. Lavis, Mathematics Department, King's College, Strand, London WC2R 2LS (tel: 0171-873-2240/2217; e-mail: maths@kcl.ac.uk), or see http://www.mth.kcl.ac.uk/.

The recently published list of members of the EPSRC Mathematics College is reproduced below.

Professor I D Abrahams - University of Keele

Professor C T H Baker - University of Manchester

Professor N L Biggs - London School of Economics

Professor B I Birch - University of Oxford

Dr R W Brankin - Numerical Algorithms Group Ltd

Professor J Brindley - University of Leeds

Dr D S Broomhead - Defence Research Agency

Professor S N Brown - University College London

Professor P J Brown - University of Liverpool

Professor K A Brown - University of Glasgow

Dr C J Budd - University of Bristol

Professor C J Bushnell - King's College, London

Professor P J Cameron - Queen Mary and Westfield College

Professor R W Carter - University of Warwick

Dr M A Chaplain - University of Bath

Dr D R Chillingworth - University of Southampton

Professor C J Clarke - University of Southampton

Dr K A Cliffe - AEA Technology

Dr P Clifford - University of Oxford

Professor J B Copas - University of Warwick

Professor E Corrigan - University of Durham

Dr P A K Covey-Crump - GCHQ

Dr S J Cowley - University of Cambridge

Professor D G Crighton - University of Cambridge

Professor E B Davies - King's College, London

Professor M A Dempster - University of Essex

Professor P J Diggle - University of Lancaster

Dr I J Disley - British Steel Plc

Professor S Donkin - Queen Mary and Westfield College

Professor P G Drazin - University of Bristol

Professor M J Dunwoody - University of Southampton

Professor C M Elliott - University of Sussex

Professor K D Elworthy - University of Warwick

Professor D B A Epstein - University of Warwick

Dr K Erdmann - University of Oxford

Professor D E Evans - University of Wales, Swansea

Professor D V Evans - University of Bristol

Professor R Fletcher - University of Dundee

Dr A P Fordy - University of Leeds

Professor J D Gibbons - Imperial College, London

Dr G W Gibbons - University of Cambridge

Dr T A Gillespie - University of Edinburgh

Professor P Goddard - University of Cambridge

Professor C M Goldie - Queen Mary and Westfield College

Professor P J Green - University of Bristol

Professor A P Grieve - Pfizer Central Research

Dr P Grindrod - Intera Information Technologies UK

Dr J W P Hirschfeld - University of Sussex

Professor N J Hitchin - University of Cambridge

Professor W A Hodges - Queen Mary and Westfield College

Professor J Howie - Heriot-Watt University

Dr L P Hughston - Merrill Lynch

Professor J C R Hunt - University of Cambridge

Mr A G Hutton - Nuclear Electric Plc

Dr J M E Hyland - University of Cambridge

Professor C I Isham - Imperial College, London

Professor V S Isham - University College London

Professor G D James - Imperial College, London

Professor B E Johnson - University of

Newcastle upon Tyne
Professor B Jones - De Montfort University
Professor W S Kendall - University of Warwick
Dr A A Lacey - Heriot-Watt University
Professor A J Macintyre - University of Oxford
Dr P K Maini - University of Oxford
Professor G Mitra - Brunel University
Professor D J Needham - University of Reading
Dr P M Neumann - University of Oxford
Professor A O'Hagan - University of Nottingham
Dr J R Ockendon - University of Oxford
Professor D I Olive - University of Wales, Swansea
Professor D F Parker - University of Edinburgh
Professor J R Pearson - Schlumberger Cambridge Research
Professor T J Pedley - University of Leeds
Professor Sir Roger Penrose - University of Oxford
Professor F C Piper - Royal Holloway, London
Professor D A Rand - University of Warwick
Professor E G Rees - University of Edinburgh
Professor N Riley - University of East Anglia
Dr E P Ryan - University of Bath
Dr J Saxl - University of Cambridge
Professor B W Silverman - University of Bristol
Professor A M Sinclair - University of Edinburgh
Professor D M Sloan - University of Strathclyde
Dr J Q Smith - University of Warwick
Professor A F M Smith - Imperial College, London
Professor R L Smith - University of Cambridge
Dr C T Sparrow - University of Cambridge
Professor A Spence - University of Bath
Dr A Sudbery - University of York
Professor M J Taylor - UMIST
Professor L C Thomas - University of Edinburgh
Professor D M Titterington - University of Glasgow
Professor J F Toland - University of Bath
Professor A Truman - University of Wales, Swansea
Professor R W Tucker - University of Lancaster
Dr D G Vassiliev - University of Sussex
Dr S S Wainer - University of Leeds
Professor C T C Wall - University of Liverpool
Professor K Walters - University of Wales, Aberystwyth
Professor R S Ward - University of Durham
Professor G A Watson - University of Dundee
Professor D J A Welsh - University of Oxford
Professor J R Whiteman - Brunel University
Professor D Williams - University of Bath
Professor H P Williams - University of Southampton
Professor J R Willis - University of Cambridge

EUROPEAN MATHEMATICAL SOCIETY LECTURES

The European Mathematical Society has decided to invite a distinguished mathematician, in each odd-numbered year, to visit an institution within the area covered by the EMS, to give a series of from three to five lectures of an advanced expository nature on a topic of current research interest. The first EMS Lecturer will be Professor H.W. Lenstra, Jr. (Berkeley) who will give a series of lectures of advanced expository level on "Topics in algorithmic algebraic number theory" at Université de Franche-Comté, Beasancon, France, 12-15 June 1995. Some additional talks are planned in algebraic number theory and algebra. The details concerning these talks will be announced later. The organizer is Eva Bayer. For further information, write to Mme Catherine Pagani, Laboratoire de Mathématiques, Faculté des Sciences, 16, route de Gray, F-25030 Beasancon, France, fax: + 33 81 666526.

THE UNIVERSITY OF HULL

SCHOOL OF MATHEMATICS

LECTURESHIP IN PURE MATHEMATICS

Applications are invited for the position of Lecturer (Grade A) in Pure Mathematics in the Department of Pure Mathematics and Statistics, available from 1st October 1995. The successful candidate will have a strong commitment to research in Pure Mathematics, and will be expected to make a sustained contribution to the research output of the Department. There is currently a strong research group in Analysis (including stochastic analysis, functional analysis and nonstandard analysis) and Probability theory, and other areas of active research include Topology and University Mathematics Education. In the 1992 RAE Pure Mathematics was rated 3, and the intention is to improve this rating in the 1996 excercise.

Applications are welcome from candidates working in any area of Pure Mathematics, and especially from those whose research interests lie in areas that will broaden or complement those of existing members of the Department.

The Lecturer will undertake normal teaching duties in the School of Mathematics, which offers a wide range of undergraduate programmes, and he/she will also be expected to contribute to postgraduate and research training.

Informal enquiries may be made to:
Professor Nigel Cutland, Head of Pure Mathematics and Statistics
(Tel. 01482-465569; e-mail: n.j.cutland@maths.hull.ac.uk; *or*
Dr Ekkehard Kopp, Dean of the School of Mathematics
(Tel. 01482-465876; e-mail: p.e.kopp@maths.hull.ac.uk).

For further information and details of how to apply contact the Personnel Office (Quoting ref PM) at The University of Hull, Hull, HU6 7RX
(Tel. 01482 466580 - recruitment answerphone; Fax 01482 466570)

Closing date for applications: 22nd May 1995

M.G. MITTAG-LEFFLER
Honorary Member 1892

DIARY

The diary lists Society meetings and other events publicized 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.

MAY 1995

5 Edinburgh Mathematical Society Meeting, Stirling University, Dr C.J.H. McDiarmid (219)

6 A Celebration of Two Lives, William Kingdon Clifford and Lucy Clifford, Kent University, Canterbury (222)(224)

12-13 Two-day London Mathematical Society Meeting, 'A Hundred Years of Analysis', Oxford University.

15-17 June New Developments in Homotopy Theory Research Workshop, Mathematical Institute, Oxford (225)

15-23 Numerical Methods for Wave Propagation Phenomena - Short course and International Workshop, Manchester Metropolitan University (226)

18-20 Groups in Galway 95 (In Honour of Professor S.J. Tobin) University College Galway (225)

29-1 June Mathematical Modelling Conference, University of Brunei Darussalam (214)

JUNE 1995

2 Edinburgh Mathematical Society Meeting, St Andrews University, Dr M.A. Berger (219)

4-8 50th Anniversary Summer Meeting, Canadian Mathematical Society, Toronto (224)

9-13 Canadian Operator Symposium 1995, Fields Institute, Canada (212)

16 London Mathematical Society Meeting, Burlington House, London

25-29 European Consortium for Mathematics in Industry Conference, Technical University of Denmark, Lyngby (222)

28-30 Conference on the Legacy of George Boole, University College, Cork (219)

JULY 1995

3-7 Fifteenth British Combinatorial Conference, University of Stirling (210)(223)

3-7 International Congress on Industrial and Applied Mathematics, Hamburg (213)

3-7 Mathematics of Neural Networks and Applications, Lady Margaret Hall, Oxford (221)(223)

3-14 Gauge Theory and Symplectic Geometry Seminar, Montreal University, Canada (222)

9-16 European/Gregynog Stochastic Analysis Symposium, Gregynog, Wales (222)

10-12 Linear Algebra and Its Applications Conference, Manchester University (220)

10-13 The ATLAS 10 Years On, Birmingham University (223)

10-20 Mathematical Models of Liquid Crystals and Related Polymeric Systems, LMS Durham Symposium, Durham University (223)

10-21 Workshop on Ergodic Theory on Riemannian Manifolds, Warwick (222)

11-14 Finite Fields & Applications International Conference, University of Glasgow (219)(223)

13-16 British Congress of Mathematics Education, Manchester Metropolitan University (220)

17-21 Symposium on Sieve Methods, Exponential Sums and their Applications in Number Theory, University of Wales College of Cardiff (221)

24-5 Aug Workshop on Differential Geometry & Stochastic Analysis, Warwick (222)

AUGUST 1995

17-4 Completely Bounded Maps and Cohomology in Operator Algebras EPSRC Workshop, Newcastle University (223)

SEPTEMBER 1995

4-7 Technology in Mathematics Teaching Conference, Napier University, Edinburgh (225)

4-9 European Women in Mathematics Conference, Universidad Complutense de Madrid, Spain (219) (223)

6-8 Information Processing in Cells and Tissues Workshop, Liverpool University (225)

12-13 10th British Topology Meeting, Glasgow University (223)

13-21 Mathematics and Philosophy Conference "Truth in Mathematics", Mussomeli, Sicily (223)

18-26 Pan-African Congress of Mathematicians, Ifram, Maroc (224)

25 One-day Function Theory Meeting, Nottingham University (224)

OCTOBER 1995

20-21 Stochastic Analysis, London Mathematical Society Meeting, Scientific Societies Lecture Theatre, London

NOVEMBER 1995

17 London Mathematical Society Meeting, Burlington House, London