# THE LONDON MATHEMATICAL SOCIETY NEWSLETTER 

FORTHCOMING SOCIETY MEETINGS
10 February 2001 - Oxford
Mary Cartwright Lecture
C.S. Morawetz, K.W. Morton

Wednesday 28 February 2001 - Birmingham
Inaugural LMS Regional Meeting (Midlands)
Friday 22 June - London
Hardy Lecture
Friday 6 July - Manchester
Northern Regional Meeting Wednesday 12 September - Bristol South Western Regional Meeting

## NEWS FROM DE MORGAN HOUSE

We welcome Frances Spoor to De Morgan House. Frances has been appointed as Secretary. Besides working for the President, Executive Secretary and Administrator, she will also be looking after the needs of the Society's Officers and helping run some of the Society's committees.

## EXECUTIVE SECRETARY

Following the forthcoming retirement of Dr D.J.H. Garling, the Executive Secretaryship of the LMS will become vacant in September 2002, or possibly earlier. Suggestions of names of persons to be considered for the position would be welcomed and should be sent to the President (j.stuart@ic.ac.uk, or 0207594 8535 or Professor J.T. Stuart, Mathematics, I C S T M, London SW7 2BZ).

## MathSciNet <br> AT DE MORGAN HOUSE AND UCL LIBRARY

LMS members are now entitled to access MathSciNet from the Society's headquarters at De Morgan House and also UCL library. A computer is available in the Verblunsky Room (Members' Room) at De Morgan House for members to use the internet, e-mail, telnet and ftp. Register with Lee-Anne Taylor, the receptionist, on arrival. If you wish to access MathSciNet from UCL library, it is necessary to book access to the Library's computers. This procedure was outlined in the September 2000 Newsletter.

## J.A. WEIGHTMAN

Mr J.A. Weightman, who was elected a member of the London Mathematical Society on 15 December 1950, died on 15 January 2001, aged 72.

## LAST NEWSLETTER

This will be the last Newsletter you will receive if you have not yet paid your 2000/01 LMS subscription, which was due on 1 November 2000. If you have misplaced your renewal of subscription form, which was included with your October 2000 Newsletter, either contact the LMS Office (e-mail: membership @lms.ac.uk; tel: 0207637 3686; fax: 020 7323 3655) or download the form from the LMS website (http://www.lms.ac. uk).

## VISIT OF PROFESSOR V. SHCHERBACOV

Professor Victor Shcherbacov of the Institute of Mathematics, Academy of Sciences of Moldova, Chisinau (Kishinev) will visit the University of Surrey for three weeks in February 2001. His visit is supported by an LMS International Short Visit Scheme 5 grant. Professor Shcherbacov is a member of the internationally renowned Department of Quasigroup Theory led formerly by the late V.D. Belousov and presently by G.B. Belyavskaya. He will give talks at Royal Holloway and Bedford New College at 4.00 pm on Tuesday 13 February (about the work of himself and his Department) and at Goldsmith's College at 4.30 pm on Tuesday 20 February. For further information contact Dr A.D. Keedwell, Department of Mathematics and Statistics, University of Surrey (a.keed well @surrey.ac.uk).

## VISIT OF PROFESSOR A. MEDNYKH

Alexander Mednykh, Professor of Mathematics at Novosibirsk State Univeristy, is visiting the University of Durham from 25 January to 13 February. For further information contact Gareth Jones (g.a.jones@maths.soton.ac.uk) or John Parker (j.r.parker@durham.ac.uk). His visit is supported by an LMS International Short Visit Scheme 5 grant.

## VISIT OF PROFESSOR

 S. YU. SLAVYANOVProfessor S. Yu. Slavyanov from St Petersburg University, Russia, is to visit the University of Leeds for one month starting from 1 March 2001. He is supported by an LMS International Short Visit Scheme 5 grant. During this visit he will give three lectures on Heun functions and related problems of mathematical physics with the following titles:

- "Integral relations beyond hypergeometric functions", University of Leeds, 9 March
- "Schrödinger equations of Heun class and S. Kovalevskaya dynamics", University of Birmingham, 20 March
- "Asymptotics for Heun equation and double confluent Heun equation", University of Bristol, 23 March

Further details about Professor Slavyanov's visit are available from Dr V.B. Kuznetsov (v.b.kuznetsov@leeds.ac. uk).

## WALTER LEDERMANN 90TH BIRTHDAY CONFERENCE

A one-day conference to celebrate the 90 th birthday of Professor W. Ledermann will be held in the School of Mathematical Sciences at the University of Sussex on Monday 19 March, beginning with refreshments in the Common Room at 11 am and lasting till 3 pm . The speakers are: P.M. Neumann (Oxford) and M.W. Liebeck (Imperial).

There will be a buffet lunch at 12.30 pm at a cost of $£ 15$ including wine. Please indicate your participation to Sue Bullock (e-mail: s.bullock@susx.ac.uk, tel: 01273 678361), and send cheques for the lunch, made out to University of Sussex, to Mrs S.D. Bullock, School of Mathematical Sciences, University of Sussex, Brighton BN1 90H. For any other enquiries, contact James Hirschfeld (e-mail: jwph@ susx.ac.uk).

# LONDON MATHEMATICAL SOCIETY 

## MARY CARTWRIGHT LECTURE

## Saturday 10 February 2001

Room L2, Mathematical Institute, 24-29 St Giles, Oxford.

| 3.30-4.30 | Professor Bill Morton <br> Evolution Operators and Numerical Modelling <br> of Hyperbolic Equations |
| :--- | :--- |
| $4.30-5.00$ | Tea |
| $5.00-6.00$ | Professor Cathleen Synge Morawetz <br> Mathematics and Flying Aeroplanes <br> The Dame Mary Cartwright Lecture |

A reception and dinner will be held after the meeting at St Hugh's College, Oxford. The cost of the dinner is $£ 20$ per person, inclusive of wine. Those wishing to attend should inform Susan Oakes, London Mathematical Society, De Morgan House, 57-58 Russell Square, London WC1B 4HS, enclosing a cheque payable to the "London Mathematical Society" to arrive no later than Monday 5 February. Those wishing to book accommodation should contact Susan Oakes (oakes@lms.ac.uk).

Some funds are available to contribute in part to the expenses of members of the Society or research students who wish to attend the meeting. Requests for support should be addressed to the Meetings and Membership Secretary, London Mathematical Society, De Morgan House, 57-58 Russell Square, London WC1B 4HS (lms@lms.ac.uk). Requests should include an estimate of expenses and a very brief curriculum vitae; research students should include brief letters of endorsement from their supervisors.

## VISIT OF PROFESSOR E. HOROZOV

Professor Emil Horozov from Sofia University, Bulgaria, will visit the University of Leeds for one month starting from 17 March. He will give the following talks at the Universities of Loughborough and Leeds:

- "Orthogonal polynomials as eigenfunctions of differential operators", University of Leeds, 20 March
- "Dualities in Weyl algebras", University of Loughborough, 21 March

This visit is supported by an LMS International Short Visit Scheme 5 grant. Further details about Professor Horozov's visit are available from Dr V.B. Kuznetsov (v.b.kuznetsov@leeds.ac.uk).

## 53RD BRITISH MATHEMATICAL COLLOQUIUM

The 53rd British Mathematical Colloquium will take place at the University of Glasgow from 9 to 12 April 2001. The principal speakers will be Henri Berestycki, Michel Broué, Henri Darmon and Clifford Taubes. There will be special sessions on Partial Differential Equations and Modular Forms. For further information, consult the website at www.maths. gla.ac.uk/bmc2001, send an e-mail to bmc2001@maths.gla.ac.uk, or write to British Mathematical Colloquium, Department of Mathematics, University of Glasgow, University Gardens, Glasgow G12 80W. The British Mathematical Colloquium is supported by the London Mathematical Society and the Glasgow Mathematical Journal Trust.

## University of OXFORD in association with Worcester College

## Mathematical Institute

## Faculty Lecturership in Mathematics

Applications are invited for the above post, available from 1 October 2001, in conjunction with a Tutorial Fellowship at Worcester College. The joint stipend is on the scale $£ 20,014$ to $£ 39,564$ per annum, according to age, with the usual additional allowances which accompany a Fellowship at Worcester College.
Following the appointment of Terry Lyons to the Wallis chair, the University and College seek to develop further the area of Stochastic Analysis within the University by appointing a mathematician of potential and proven research quality. The appointee will be expected to teach pure mathematics at undergraduate level, and to enhance the already active research environment in this area.
Further particulars, containing details of the duties and the full range of emoluments and allowances attaching to both the university and college posts may be obtained from the College Secretary, Worcester College, Oxford OX1 2HB, or from the Web pages at www.maths.ox.ac.uk. The closing date for applications is 7 March 2001.

The University is an Equal Opportunities Employer.

## LONDON MATHEMATICAL SOCIETY REGIONAL MEETING UNIVERSITY OF BIRMINGHAM SCHOOL OF MATHEMATICS \& STATISTICS

## Wednesday 28 February 2001

| 1.45 pm | Arrival (Watson Building) |
| :--- | :--- |
| 2.00 pm | Welcome (Physics Bridge, Watson Building) |
| 2.30 pm | Professor Ian Stewart (Warwick) <br> Mathematical Patterns in Animal Locomotion <br> (Lecture Room A, Watson Building) |
| 3.40 pm | Dr Joe Kyle (Birmingham/LTSN) <br> Recent Developments in Web Based Assessment. <br> (Lecture Room A, Watson Building) |
| 4.40 pm | Tea (Physics Bridge, Watson Building) |
| 5.15 pm | Professor Michael Aschbacher (CalTech) <br> Modern Permutation Group Theory <br> (Lecture Room A, Watson Building) |
| 6.15 pm | Reception, Prize giving for the best Postgraduate Poster <br> (Physics Bridge, Watson Building) |
| 7.00 pm | Dinner (University, Staff House) |

If you have not already done so, then please let Chris Parker (cwp@for.mat.bham.ac.uk) know if you will be attending the meeting. In particular, he needs to know in advance if you will be attending the dinner (between $£ 15$ and $£ 20$, not including drinks)
Also please inform Chris Parker if you would like (or if you have been told you would like) to display a poster at the meeting. See www.mat.bham.ac.uk/lms/ poster.htm for further details.
During the three days following this meeting there will be an LMS sponsored mini-conference (also at Birmingham) on Groups and Geometries.

Some funds are available to contribute in part to the expenses of members of the Society or research students who wish to attend the meeting. Requests for support should be addressed to the Meetings and Membership Secretary, London Mathematical Society, De Morgan House, 57-58 Russell Square, London WC1B 4HS (lms@lms.ac.uk). Requests should include an estimate of expenses and a very brief curriculum vitae; research students should include brief letters of endorsement from their supervisors.

## Cecil King Travel Scholarship

The Cecil King Memorial Foundation has established a Cecil King Travel Scholarship in Mathematics to the value of $£ 5000$, to be awarded annually to a young mathematician of outstanding promise, to support a period of study or research abroad for a typical period of three months, to enhance his or her studies and further his or her career development. The Scholarship will normally be awarded to a UK or Irish National under the age of 25 years, either registered for or having recently completed a doctoral degree at a UK University.

The award will be competitive and based on a written proposal describing the intended programme of study or research abroad and the benefits to be gained from such a visit, a short presentation and an interview.

The award will be made by the Council of the London Mathematical Society on the nomination of the Cecil King Prize Committee, whose members will be nominated by the Society's Education Committee.

The initial application will include:

1. A completed application form.
2. A short proposal (4 pages maximum) indicating the proposed programme of study abroad, the benefit of such an opportunity in advancing the candidate's studies and an indication of the Institute that the candidate wishes to visit.
3. A letter of support from the Head of their Department or from their Research Supervisor.

The initial applications will then be considered by the Cecil King Prize Committee to select up to six candidates for interview. At this stage, the selected candidates will be asked to approach the intended research institution or research leader to be visited to confirm that a visit would, indeed, be welcomed if an award was made. The short-listed candidates will then be invited to make a brief presentation to the Cecil King Prize Committee on their proposed research and the benefits to be gained from the visit abroad.

Final ratification of the award will require formal confirmation from the institution/person to be visited, indicating their willingness to welcome the visit and to provide whatever supervision and research facilities might be needed. Any supervision or other fees will be paid from the Prize.

At the end of the visit, the student will be expected to write a short report to the Cecil King Memorial Foundation Trust, indicating the activities and benefits gained from the visit.

Application forms may be obtained from the Executive Secretary, The London Mathematical Society, De Morgan House, 57-58 Russell Square, London WC1B 4HS (e-mail: Ims@lms.ac.uk) or from the Society's website at http://www.lms. ac.uk/activities/prizes_com/index.html. The closing date for applications is Thursday 22 February $\overline{2} 001$. It is intended that the Scholarship will be awarded on 11 May 2001.

## cLASSICSI <br> 2 <br>  <br> 为

## 1．土．Dabl

## Classical Potential Theory and lts Probabilistic Counterpart

Frome the reviens：
Wha the eady 19未0＇s．Norbext
 on the Witchet problem and an
 these has heen enormonss activi－ is in potestix\} theory and sto. dastic exurecases，in whik bobk今ubjecta have searched a kigk destece of polish and their clowe yelubion has beens diacovered． Here is a momymmental wosk by mooks，ome of the mastertw in which Pary a develons the poten－ tial theory associased mexth hantace＇s equatiom wnat the heat equation，and ऐart 2 develops thowe pares（martinuales and Frownian motion\} of stochastis wrocess thessy shich are dessely related to fart y，＂






## Please andex fram

Sprityeq Custorter Servis
Haberstr，\％
69：2at hetdeltherg，Gezmany


e－maik ordersk springet．de of through yaur trooksettet

## 


3 333＊3023\％
W．


D．Giforara，N，5．Tructinger

## Elliptic Partial Differential Equations of Second Order

Frank the revients：

 cysuations，either as a retexence or as a bosk to \｛xasn from．The
 meke the \｛ระ

 Alkowgh the material has been deseloyed frome lectures at Stan－
 abmost syatextutic soverage that is mach longer than conk be covered in a year＇s hectures．


 staxkent this dexame book is
 spectrum of appliéa mathema－ \｛icin：8\％＂
 parce er Applicudes，3gs
 ammisably in theix anaks；the hook is a real cleasure to read．＂






## R．C．Lyndon，PE，Schupp Combinatorial Group Theory

Froxth the tevieww：
．．Thes book \＆．．．\} deftyex the
 calyed conbematorias groun theo．
 Be hevenment to have concentras． eda survey of the subject ints

 \｛over 3aco（itans\}\}), ...the book is
 to the literature，containeng namay resuke not previonsly

 wefereshace．＂











## SPITALFIELDS DAYS

In 1987, the London Mathematical Society instituted a series of occasional meetings called 'Spitalfields Days'. The name honours our predecessor, the Spitalfields Mathematical Society, which flourished from 1717 to 1845.

A Spitalfields Day is usually associated with a long-term symposium on some specialist topic at a UK university. One of the symposium organizers is asked to arrange a one-day meeting at which selected participants, often distinguished experts from overseas, will give survey lectures on topics in the field of the symposium or other types of lecture accessible to a general mathematical audience. These meetings are publicized in the Newsletter and all members are invited to attend.

The Society offers a modest grant for the organization to cover administrative and other expenses, with the balance to be used at the discretion for purposes associated with the meeting (for example, a subsidized lunch). Funds are also made available to help research students attend the meeting.

Anyone involved in running a symposium who would be interested in organizing a Spitalfields Day is invited to write to Dr N.M.J. Woodhouse, Meetings \& Membership Secretary, London Mathematical Society, De Morgan House, 57-58 Russell Square, London WC1B 4HS (grants@lms.ac.uk). The format need not be precisely as described, but should be in a similar spirit.


To Order:
Plymbridge Distributors Ltd. Estover Road, Plymouth PL6 7PZ, United Kingdom
Tel: +44-1752-202301
Fax: +44-1752-202331
www.plymbridge.com
Or Contact:
A K Peters, Ltd. 63 South Ave, Natick, MA 01760 USA
Tel: (508)655-9933
Fax: (508)655-5847 www.akpeters.com service@akpeters.com

Publishers of the journal lixperimental Mathematics

## Tools for Teaching (You will like the books. Your students will love the prices.)

## A comprehensive text that you'll keep as a reference:

Discrete Algorithmic Mathematics, $2^{\text {nd }}$ Edition
Stephen B. Maurer and Anthony Ralston Hardcover; 910 pages; $£ 44.00$

## Two texts stressing concepts over computation:

Calculus Lite, $2^{\text {nd }}$ Edition
Frank Morgan
Paperback; 320 pages; $£ 20.00$

Riemannian Geometry: A Beginner's Guide, $2^{\text {nd }}$ Edition Frank Morgan
Hardcover; 160 pages; $£ 24.00$

## LONDON MATHEMATICAL SOCIETY Spitalfields Day

Mathematics Research Centre University of Warwick

Monday 26 March 2001 RANDOM PARTIAL DIFFERENTIAL EQUATIONS

Organiser: Andrew Stuart (Warwick)
All talks will be held in the Mathematics Institute

## Programme

9.30-10.30 | Professor Alexandre Chorin (Mathematics, Berkeley) |
| :--- |
| Prediction, irreversibility and computability |

10.30-11.15 Coffee
11.15-12.15 Professor Jerzy Zabczyk (Polish Academy of Sciences, Warsaw) An introduction to stochastic evolution equations
12.15-1.45 Lunch
1.45-2.45 Professor Arnaud Debussche (ENS Cachan-Bretagne) Nonlinear dispersive waves perturbed by noise
2.45-3.45 Professor Boris Rozovskii (University of Southern California) Wiener chaos and stochastic numerics
3.45-4.30 Tea
4.30-5.30 Professor Andrew Majda (Courant Institute, NYU) Mathematical strategies for stochastic modelling in climate and other disciplines
5.30-6.30 Wine and snacks

This is part of the EPSRC funded meeting on Computational Stochastic Differential Equations, 26-31 March 2001

For further information contact: Peta McAllister, Mathematics Research Centre, University of Warwick, Coventry CV4 7AL (e-mail: peta@maths.warwick.ac.uk; tel: 0247652 4403; fax: 0247652 3548).


LMS Members are entitied to a $10 \%$ discount on all of these titles.

The Fermat Diary
C.. . Mozzochi

This book concentrates on the final chapter of the story of perthaps the most famous mathematics problem of our time: Fermat's Last Theorem. Inis eyewitness account and wonderfil collection of photographs capture the marvel and unfolding drama of this great mathematical and human story.
2000. 200 pages, 0.8218-2670-0, Hardhack, E17.75

Analytic K-Homology
Nigel Higson and John Roe
This book acquants the reader with the essential ideas of analytic K-homology and develops some of its applications. It includes a detalled introduction to the necessary functional analysis, followed by an exploration of the connections between K homology and operator theory, coarse geometry, index theory, and assembly maps, induding a detaled treathent of the Atyah-Singer lndex Theorem.

Oxford Mathematical Monographs
2000, 320 pages, 0-19-851726-0, Wardback, £65.00
Exploring the Number Jungle
A loumey into Diophantine Anolysis Edward B. Burger

This highly readable book brings to life the fundamental ideas and theorems from diophantine approximation, geometry of numbers, diophantine geometry and $\$$ \$p-adic analysis. Many hints and remarks are provided to be freely used and enjoyed.

Student Mathematical ibrary No. 8
2000. 144 pages, $0.8218-2640$-9, Paperback, 122.50

ICIAM 99
Proceedings of the Fourth international Congress on industrial \& Applied Mathematics, Edinburgh
Edited by J.M. Ball and J.C.R. Hunt
The book contains the texis of plenary lectures at ICIAN 99. It also contains details of the opening ceremony, prizes awarded, organization, list of mini synopsia, list of participants, together with various photos.
2000. 352 pages. 0-19-850514-0, Hardback, 665.00


Tel +44 (0) 1536454534 or $\mathrm{Fax} ;+440) 1536454418$

## DOCTORAL TRAINING ACCOUNTS

Heads of Department of Mathematics have received a letter from Dr Alastair Rose, the EPSRC Mathematics Programme Manager, explaining how funds from the Mathematics Programme will be allocated to Doctoral Training Accounts (DTAs).

For 2001 and 2002 studentship starts, the distribution of funds will be carried out according to the following guidelines:

- the value of the Doctoral Training Grant (DTG) awarded to an individual department will be determined by the number of Mathematics Programme "pool" research studentships that were awarded to that department, averaged over the last three years (1998-2000 starts) or five years (19962000 starts), whichever produces the higher number. (Studentships will count irrespective of whether filled or not; those from the former "earmarked" pool are included. Each overseas EU studentship will count as the equivalent of a UK studentship. Mathematics CASE project studentships will not be included in this calculation since the special arrangements for them will continue to apply at the present time (see the EPSRC web for details).)
- Penalties (in the shape of reduced grants) will apply where a filled studentship has not resulted in submission of a PhD thesis within 4 years.
- Departments whose average as calculated under the above algorithm is less than 0.5 will not receive a financial allocation from the doctoral training budget of the Mathematics Programme. However those departments may apply separately to EPSRC for funds at the average studentship rate (see below), by nominating an individual student of high mathematical calibre (first class honours or equivalent) for training in the remit of the Mathematics Programme. A deci-
sion will be made within two weeks of the nomination on a first-submitted-first-awarded basis. Those departments concerned will have been notified of this by EPSRC in December and will have received guidance on the nomination arrangements.
- The current average unit cost of a studentship ( $£ 38 \mathrm{~K}$ ) will be used to calculate each department's share of the available Mathematics Programme budget for doctoral training, adjusted for resourcing CASE studentships (of which there will be 25 starting in 2001) and for supporting student nominations from notified departments, as per the previous bullet point.

DTGs will be awarded to institutions, but funds will be attributed to individual departments. Some mathematics departments may receive doctoral funding from EPSRC programmes other than the Mathematics Programme; such additional funds will have been calculated according to research grant earnings in these other programmes. Accounts cannot be used to meet the cost of stipends in respect of overseas EU students, but departments can retain unused funds in the account to support other eligible students.

From 2003 onwards, in order to allow change in the levels of DTAs awarded to departments, EPSRC plans to adjust the figures stemming from the above algorithm using advice from peer review panels. These will employ similar principles to those used by EPSRC mathematics studentship 'pool' panels in the past. It is expected that the data used will include:
(i) student and supervisor quality,
(ii) use of DTAs to lever support from other sources of funding,
(iii) EPSRC volume of research activity data - that is, the number of EPSRC Mathematics Programme grants
awarded to (members of) the department.

Heads of Departments are being asked to comment on this review process, particularly about the data to be used.
The London Mathematical Society will also send its comments, and so would welcome input from members. If you have views on this matter, would you please send them to Professor K.A. Brown, Department of Mathematics, Glasgow University, 15 University Gardens, Glasgow G12 8QW (e-mail: kab@maths.gla.ac.uk), to reach him by the end of March.

## 2000 LMS POPULAR LECTURE VIDEOS

The videos of the 2000 LMS Popular Lectures are now available. Once again we have recorded the actual lectures given in London, not studio versions. They can be purchased from Lee-Anne Taylor (taylor@lms.ac.uk), the Receptionist at the LMS, at a cost $£ 10$ for one or £7.50 each for two or more videos (including postage and packing). Further information and an order form are on the LMS website (http://www.lms.ac.uk/).

## 2000 <br> Simplicity and Complexity (John Barrow)

Physicists say that the world is simple, but biologists disagree. Superstrings, chaos and the theory of complexity all help to resolve this contradiction.

## Fractals - the New Geometry (Kenneth Falconer)

How can mathematics model highly irregular phenomena such as trees, mountain skylines and stock market prices?
Fractal geometry provides an answer!

## 1999 <br> Floating, Spinning, Tumbling (Frank Berkshire)

How do objects like to float, tennis racquets spin and polyhedral dice come to
rest? Order and chaos in action!

## Tangent Circles Patterns \& Packings (Caroline Series)

Patterns of tangent circles have led to geometrical problems from ancient Greece to old Japan. Classical geometry has much to say about this, but the full solution is a wonderful 20th century idea.

## 1998 <br> Marrying, Voting, Choosing (Tom Körner)

Mathematics cannot tell us how to marry, vote or choose, but it can cast an interesting light on these problems.

## Giraffe Blood Flow and Pattern-forming Bacteria (Tim Pedley)

Why is a giraffe's heart so huge, and why do swimming bacteria form patterns? Biological fluid dynamics has the answers.

## VISIT OF DR M. OLIVER

Dr Marcel Oliver (Mathematisches Institut, Universität Tübingen, Germany) will be visiting the UK in February. He will be giving three separate talks on "Lagrangian Averaged Dynamics" as follows:

- 21 February at 2 pm: Department of Mathematics and Statistics, University of Surrey, in the Nonlinear Mathematics Seminar Series organised by David Schley.
- 23 February at 4 pm: Mathematics Department, Imperial College, London.
- 27 February at 4:15 pm: Room M320, Mathematics Department, Heriot-Watt University, Edinburgh in the Turbulence Seminar Series organised by Professor Sergei Kuksin.

For further information contact Dr Simon Malham, Mathematics Department, Heriot-Watt University, Edinburgh EH14 4AS (e-mail: s.j.malham@ma.hw.ac.uk, tel: 01314513200 ). His visit is supported by an LMS Scheme 2 visitors grant.

## MathGate http://www.mathgate.ac.uk

Locating mathematics resources on the Internet can be difficult and time consuming. MathGate is trying to make the process simpler by creating an Internet resource catalogue for mathematics.

Using section editors MathGate discovers, evaluates and describes electronic mathematics resources that are available over the web. These resources are classified according to MSC2000 (Mathematical Classification System), which is a revision by Mathematical Reviews and Zentralblatt MATH of MSC1991 which was originally developed by Chris Eilbeck of Heriot Watt. This allows users of MathGate to search the catalogue using mathematical terms as well as being able to browse on mathematical subject fields in order to find the resources that they require. The types of resources that MathGate includes in its catalogue are online documents, electronic journals, email lists, newsgroups, software, Web sites of professional societies, research groups and departments.

MathGate has also been collaborating with Math-Net to support the Secondary Homepages Project in the UK. Because of the different structure of departmental homepages, Math-Net have devised a concept for a standardised "secondary" homepage for mathematics departments. This page is not designed to replace departmental homepages and should contain a prominent link to the homepage. So far nine institutions in the UK Birmingham, Brighton, Ulster, Liverpool, Kings College, Manchester, Oxford Brookes, Sheffield Hallam and Keele have a secondary homepage. The secondary homepages project is supported by the International Mathematical Union (IMU).

MathGate is also the UK contact for the Agenda des Conférences en Mathématiques (ACM), a searchable database of mathematical talks, seminars and colloquia. The quick search options
include location and subject. If you are organizing a mathematical seminar or colloquium in your department and its schedule is published on its own web page, you might like to include this information in the ACM database. To do this you will have to use some customized ACM tags in your HTML files. For more information please contact MathGate.

Other projects that MathGate is involved in include the Internet Mathematician and the development of a mathematics portal. The Internet Mathematician is a free "teach yourself" tutorial delivered over the Web for students, lecturers and researchers who want to learn what the Internet can offer in the field of mathematics. It forms part of the Virtual Training Suite and will be available in May 2001. The mathematics portal is to begin development in August 2001 and will be based on the portals currently being developed in medicine, social sciences and engineering.

MathGate also works closely with the Learning and Teaching Support Network for Mathematics, Statistics and OR.

MathGate is a JISC (Joint Information Systems Committee) funded project and forms part of the Resource Discovery Network (RDN). There is no charge for using MathGate.

For more information please contact: Greig Fratus, MathGate Manager, G9, Main Library, University of Birmingham, Edgbaston, Birmingham B15 2TT (tel: 0121414 2758, fax: 0121471 4691, email: G.J.Fratus@bham.ac.uk).

## URLs:

- MathGate -
http://www.mathgate.ac.uk/
- MSC2000 - http://www.ams.org/msc/
- Mathematical Reviews http://www.ams.org/mrlookup/
- Zentralblatt MATH http://www.emis.de/ZMATH/
- MSC1991 - http://www.ma.hw.ac.uk/ ~chris/MR/MR.html
- Math-Net - http://www.mathnet.org/
- MathGate Secondary Homepage Project - http://www.mathgate.ac.uk/ secondary/about.html
- International Mathematical Union http://www.mathunion.org/ or the UK mirror http://www.maths.soton. ac.uk/EMIS/mirror/IMU/
- Agenda des Conférences en Mathématiques -
http://acm.emath.fr/index-us.html
- Virtual Training Suite http://www.vts.rdn.ac.uk/
- Learning and Teaching Support Network for Mathematics, Statistics and OR - http://Itsn.mathstore.ac.uk/
- JISC - http://www.jisc.ac.uk/
- RDN - http://www.rdn.ac.uk/


## UK Secondary Homepages:

- Birmingham - http://www.mat.bham. ac.uk/mathnet/
- Brighton - http://www.it.bton.ac.uk/ cms/mathnet/
- Ulster - http://www.infc.ulst.ac.uk/ mathnet/ulster.htm
- Liverpool - http://www.liv.ac.uk/ maths/math-net/
- Kings College - http://www.mth.kcl. ac.uk/Math-Net/
- Manchester - http://www.ma.man. ac.uk/Math-Net/
- Oxford Brookes - http://www.cms. brookes.ac.uk/math-net/
- Sheffield Hallam - http://www.shu.ac. uk/maths/mathnet/
- Keele - http://www.keele.ac.uk/ depts/ma/mathnet


## DOROTHY HODGKIN FELLOWSHIPS

The Royal Society Dorothy Hodgkin Fellowship is designed to offer the kind of support and flexibility which are particularly beneficial for female scientists. Each fellowship offers four years' guaranteed tenure and annual research expenses as well as access to a mentor scheme and networking with other fellows. Appointments can be held on a part-time or full-time basis to help match work and family commitments. Approximately 15 fellowships will be available from 1 October 2001. For application forms and further information visit the Royal Society's website (www.royalsoc.ac.uk) or contact the Research Appointments Department at the Royal Society (tel: 02074512547 or e-mail: ukresearch .appointments@royalsoc.ac.uk). Deadline for receipt of applications is 9 February 2001. Amongst those awarded fellowships in 2000 were: Dr Francesca Mezzadri and Dr Nina C. Snaith, both to work in the School of Mathematics, University of Bristol, and Dr Linda J. Cummings, to work in the School of Mathematics, University of Nottingham.

## GRESHAM COLLEGE GEOMETRY

During the Spring Semester, three Public Lectures in Geometry will be given by Professor Sir Roger Penrose, FRS (Gresham Professor of Geometry).

- Wednesday 14 February at 1.00 pm Knot or Not?
- Wednesday 21 February at 1.00 pm Topology, and What It Can Be Used For
- Wednesday 28 February at 1.00 pm Probability, Power and Paradox

All the lectures will be delivered at Gresham College, Barnard's Inn Hall, Holborn, London EC1N 2HH. Admission to the lectures is free and without tickets. Further details can be obtained from Gresham College (tel: 0207831 0575; fax: 0207831 5208; e-mail: enquiries@ gresham.ac.uk; web site: http://www. gresham.ac.uk).

## CONGRATULATIONS

Congratulations to Alasdair Rose, EPSRC Programme Manager for Mathematics, who received an MBE in the New Year's Honours List.

## GRESHAM III C OLLEGE\|II

## APPOINTMENT OF GRESHAM PROFESSOR <br> of <br> GEOMETRY

Gresham College was established in 1597 under the will of Sir Thomas Gresham as an independent educational institution. It supports programmes of free public lectures and interprets the 'new learning' of Gresham's day in contemporary terms. It involves those who live and work in the City of London in intellectual debate, and is particularly interested in candidates who can address and stimulate general audiences. Applications or nominations for appointment in the above discipline are invited. The appointment is part-time from September 2001 for three years. Past Gresham Professors include Sir Christopher Wren and Robert Hooke; recent Professors include Professor Sir Christopher Zeeman FRS and Professor Ian Stewart. The retiring Professor is Sir Roger Penrose FRS.

The Chair of Geometry can address any branch of mathematics, geometry or computer science. Candidates with an interest in computational modelling would be especially welcome.

All Professors must offer six lectures each year. Opportunities also exist for support for their research. Candidates must have an interest in reaching an international audience via information and communications technology. An annual fee of $£ 4,500$ is payable.

Please request further particulars from
The Provost (Dept LMS), Gresham College, Barnard's Inn Hall, Holborn, London EC1N 2HH

Tel: 0207831 0575. Fax: 02078315208 e-mail: enquiries@gresham.ac.uk www.gresham.ac.uk

## Closing date for applications is mid-day Friday 23 February

Gresham College Trust is a company limited by guarantee registered in England and Wales. Registered Charity No: 1039962

# THE HERITAGE OF I. SCHUR'S 1901 DISSERTATION 

A Satellite Meeting to the INI programme on<br>Symmetric Functions and Macdonald Polynomials<br>Gregynog Hall, Newtown, Powys

Saturday 2 - Tuesday 5 June 2001

Organisers: A.O. Morris (Aberystwyth), C. Bessenrodt (Magdeburg), S. Donkin (Queen Mary and Westfield), G.D. James (Imperial), A. Kerber (Bayreuth), J.B. Olsson (Copenhagen).

Theme: The meeting will celebrate the centenary of I. Schur's 1901 Dissertation which has been so influential in the development of representation theory. Also, it was in this work that Schur functions first appeared, especially in their relationship to the representations of general linear groups and symmetric groups. Macdonald polynomials are generalisations of Schur functions and their relevance to a broad area within mathematics and physics is becoming increasingly apparent. An equally significant contribution has been made by J.A. (Sandy) Green, in particular in his influential Springer Lecture Notes where Schur's work was presented in modern terminology. This has led to even more contemporary developments in quantum groups and Hecke algebras. Thus, this meeting will simultaneously celebrate Sandy Green's 75th Birthday and will mark his striking contribution to this subject. These celebrations will be held on Sunday 3rd June culminating in a Dinner.

Expected Speakers: C. Bessenrodt (Magdeburg), A. Cox (City), R. Dipper (Stuttgart), K. Erdmann (Oxford), R.M. Green (Lancaster), M. Haiman (San Diego), A. Henke (Kassel/Weitzmann Institute), A. Kleshchev (Oregon), G.I. Lehrer (Sydney), I.G. Macdonald (Queen Mary and Westfield), P. Pragacz (Warsaw), A. Ram (Wisconsin), B. Srinivasan (Chicago), J-Y. Shi (Shanghai), J-Y. Thibon (Marne-la-Vallée).

Participation and Costs: The total cost is expected to be in the region of $£ 170$. The meeting is funded by generous grants from the London Mathematical Society and the Isaac Newton Institute. Limited financial support may be available for participants from the UK, especially postgraduate students, and LMS Scheme 5 countries. If you are interested in possible participation in this meeting, please contact Alun Morris (aom25@newton.cam.ac.uk) or Tracey Andrew (t.andrew@newton. cam.ac.uk) or one of the organisers.

Further information is available at http://www.newton.cam.ac.uk/sfmw04.html

## MATHEMATICS POSTGRADUTE OPEN DAY AT KING'S COLLEGE LONDON

A Mathematics Postgraduate Open Day will be held at King's College London on 23 February. The provisional programme is:

- Talks on Geometry and Topology, Analysis and Partial Differential Operators, Number Theory and Theoretical Physics
- Panel discussion on Doing an MSc, MPhil or PhD at King's
- Presentation of MSc and PhD programmes in Financial Mathematics and in Information Processing, Neural Networks and Disordered Systems

A registration form, an information booklet 'Postgraduate Mathematics at King's' and further information may be obtained from: Miss Sam Glass, Postgraduate Secretary, Mathematics Department, King's College London, Strand, London WC2R 2LS (tel: 0207848 2107, e-mail: pgopenday.maths@ kcl.ac.uk).

## THE ROYAL SOCIETY BAKERIAN LECTURE

The Royal Society Bakerian Lecture, given annually, is the Society's premier lecture in the physical sciences. In 2001 it is being given by Professor David Sherrington FRS on Magnets, microchips, memories and markets: statistical physics of complex systems. The Lecture will take place on Wednesday 7 February at 5.30 pm , at the Blackett Laboratory, Imperial College, London.
Disorder and frustration in the interactions between even quite simple microscopic entities can lead to complex macroscopic co-operative behaviour, whose understanding has required the development of novel concepts and techniques and continues to pose challenges. In this talk an overview will be given of the origin and character of such complexity and its conceptual understanding. It will be shown how resultant
concepts can be fruitfully and symbolically transferred between systems of physically quite different appearance.
All are welcome to attend. Tickets will not be issued and seats cannot be guaranteed. Parties of 6 or more are asked to inform the Society beforehand. The Society reserves the right to refuse admission. For further information contact: Froniga Lambert (tel: 0207451 2574, e-mail: froni ga.lambert@royalsoc.ac.uk, web: http:// www.royalsoc.ac.uk/events).

## LMS WORKSHOP-SYMPOSIA

The Society funds a number of workshops and small symposia. The format is very flexible and they can be held anywhere in the UK. The topic can vary from being quite specialised and suitable for an intensive period of work to one that needs to be exposed to the UK community. When assessing a proposal the LMS Research Meetings Committee will seek expert advice, make suggestions and before offering support it will need to be convinced that the benefits to UK mathematics are likely to be significant.
Applications for a total expenditure in the range $£ 4 \mathrm{~K}$ to $£ 10 \mathrm{~K}$ will be entertained. Exceptionally, the Committee will consider proposals for which there is other major support. Applications for smaller amounts can be made for LMS Conference Grants, which are handled by the LMS Programme Committee.
Detailed applications should be made to Professor E.G. Rees (elmer@maths.ed. ac.uk) as soon as possible and in any case at least 12 months prior to the meeting. The application should include the scientific case, names of likely participants (including the likely number of post-graduates), the proposed venue arrangements and detailed costs. Applicants are advised to consult Professor Rees about their proposed programme before making a formal application.
Organisers of workshops and small symposia are required to make both an academic report and a financial report, after the meeting has taken place.

# Workshop VARIATIONAL PROBLEMS WITH SINGULARITIES 25 June - 29 June 2001 

Organisers: Professor F. Bethuel and Professor H. Brezis.

Themes: Problems occurring in physics (liquid crystals, superfluids, superconductors), as well as in emerging fields such as image processing, lead to solutions of variational problems with singularities - points, lines or surfaces. The aim is to bring together people with various backgrounds: physicists, material scientists, and mathematicians from the fields of nonlinear PDEs, geometry, geometric measure theory, calculus of variations and applied mathematics.
Specific topics to be addressed include:

- Mathematical problems occurring in the physics of superconductors or superfluids
- Mathematical problems in liquid crystals
- Variational problems occurring in image segmentation and discontinuous structures
- Connections with geometric measure theory, harmonic maps and Cartesian currents
- Sobolev spaces with values into manifolds
- Vortices and renormalized energies
- Stability and symmetry in the Ginzburg-Landau system
- Topology of vortices and connections with fluid mechanics and chemistry

Participants (provisional): A. Aftalion, S. Alama, G. Alberti, L. Almeida, L. Ambrosio, F. Bethuel, H. Brezis, L. Bronsard, A. Chang, K.C. Chang, M. Comte, M. Giaquinta, S. Gustafson, R. Jerrard, R. Hardt, M. Keissling, Y.Y. Li, K. Mallick, P. Mironescu, L. Nirenberg, J. Ockendon, G. Orlandi, Y. Pomeau, T. Rivière, E. Sandier, J-C. Saut, S. Serfaty, I. Shafrir, M.I. Sigal, M. Soner, P. Sternberg, P. Yang.
Location and cost The Workshop will take place at the Newton Institute and accommodation for participants will be provided in single study bedrooms with shared bathrooms at Wolfson Court, a hall of residence adjacent to the Institute. The workshop package costs $£ 300$, which includes registration fee, accommodation, breakfast and dinner from dinner on Sunday 24 June until breakfast on Saturday 30 June, and lunches and refreshments on the days that lectures take place.
Further information and application forms: These are available from the WWW at http://www.newton.cam.ac.uk/programs/NPD/npdw03.html, where further information about the Workshop will be posted and updated.
Completed application forms should be sent to Maureen Clark at the above address, or via email to m.clark@newton.cam.ac.uk. Scientific enquiries may be addressed to Professor Bethuel (bethuel@ann.jussieu.fr) or Professor Brezis (brezis@ccr.jussieu.fr).
Closing date for receipt of applications and abstracts is 28 February 2001.

## AN INTERVIEW WITH SUSAN OAKES

Susan Oakes took up an appointment as Administrative Assistant to the London Mathematical Society on 2 January 1981. She was the Society's first full-time appointment. Absolutely the best thing I have done in my connection with the Society was to write a glowing reference for Susan when she applied for the position. I assured the Society that she could fulfil the job description with ease and would soon be doing much more. How very much more, I could not have predicted. As the Society's Administrator from the late 80 s onwards, she has taken a role central to its activities. To Susan, her involvement with the Society has never been "just a job". She has been as dedicated to the well-being and objectives of the Society as any Officer. Her knowledge of the Society and its members is now unrivalled. In the expanded administration at De Morgan House, Susan is regarded as a guru. A remark frequently heard is "Ask Susan, she'll know". In various roles for the Society, it has been my privilege to collaborate with Susan for the past twenty years. We have never exchanged a cross word, except about politics and my navigation when she drove me to Society Meetings. It was a very great pleasure for me to interview her for the Newsletter, to mark the start of her third decade in the service of the Society.

Alan Pears
It seems like only yesterday, Susan, that you wrote in the Newsletter about your first decade with the LMS. Now, however, you have been with the Society for twenty years. What have been the highlights of this past decade?
This has been the decade of change. There have been several memorable events. First and foremost was the purchase of the Society's own headquarters. On 16 February 1998, we moved to a property in Russell Square, subsequently named as De Morgan House. Ten years ago, the LMS was run on a day-to-day basis, pri-
marily by me, from a small office in Burlington House rented from the Royal Astronomical Society. Now we are in our splendid new offices with a staff of ten and Ben Garling as our Executive Secretary. Although we had moved in February, the official opening was on Friday 23 October 1998 by Sir Michael Atiyah in the presence of six other Fields Medallists and 150 guests.

Another significant event was the Joint Meeting with the American Mathematical Society in Cambridge in June 1992. This meeting was the first of its type and was of course organised by you in your capacity as Meetings and Membership Secretary. I remember it was a lot of hard work, great fun and much appreciated by those who attended.

Well Susan, it was organised by you and me jointly. I remember feeling that together we were under pressure from all 200 members of the AMS staff but my memories now are entirely happy. What have been your other excursions onto the international scene?
It was a great pleasure to attend two International Congresses, particularly the 1998 ICM in Berlin when two British mathematicians were awarded Fields Medals. Looking after the LMS display at conferences and meeting members and other mathematicians there is always very enjoyable. Then, of course, there were the two trips to Russia with the LMS Publications Secretary, David Brannan. I was proud and honoured to represent the LMS administration. I believe these trips helped cement our relationship with the Russian Academy of Sciences.

## Have there been any moments of despair?

 Yes, one in particular. Norman Biggs, the Librarian, and I had to jemmy open the LMS deed box which was at least 100 years old. Somewhere in the move from Burlington House to De Morgan House, we had lost the key!Looking back over the past decade, do you have any regrets?
The death of Rolph Schwarzenberger is my greatest sadness when I look back over the 1990s. Rolph was a member of the interview panel that appointed me and I came to regard him as my mentor even after he had served his term as LMS Treasurer from 1979 to 1986.

## What of the Presidents you have seen come and go?

This has been the decade of the Johns with Sir John Kingman, John Ringrose and John Ball, as well as Nigel Hitchin and most recently Martin Taylor. At one point I was beginning to wonder if being called John was a prerequisite for becoming President. Working with each of them has been a valuable experience and has widened my horizon as Administrator. All have made their contributions to the well-being of the Society, but perhaps
none more than John Ball. His determination and the financial acumen of Alun Morris, the current Treasurer, made the move to De Morgan House happen.

## What do you foresee for the next decade?

Very recently we established three international schemes with the African Mathematical Union, the Moscow Mathematical Society - Russian Academy of Sciences and the Morningside Center in Beijing. So, first and foremost, over the next decade I would expect these to develop and to see the London Mathematical Society broaden its international activities. Hopefully too, we can consolidate all the changes of the last decade, grow our membership and fund even more mathematical events. I also anticipate us becoming much closer to the applied mathematics community.

Susan, thank you.


## EuroConference

## NEEDS 2001

# Nonlinear Evolution Equations and Dynamical Systems 

24-31 July 2001

Organisers: M. Bruschi, F. Calogero, A.V. Mikhailov, P.M. Santini
Theme of the EuroConference: The XVth NEEDS EuroConference is the opening event of the six month programme on Integrable Systems and all the basic aspects of the theory of integrable and nearly integrable systems (differential, partial differential, discrete and functional equations, cellular automata, etc.), together with their relevant applications to the Natural Sciences, are expected to be covered.

Location and cost: The EuroConference will take place at the Newton Institute and accommodation for participants will consist of study bedrooms of varying degrees of comfort, assigned mainly on a first come - first (better) served basis. The EuroConference package costs $£ 420$, which covers all meals and accommodation from dinner on 24 July to lunch on 31 July.

Support: The EuroConference is supported by the European Community and funding is available to support a certain number of young (age limit of 35 years) and senior researchers who are nationals of EC Member States or of the Associated States: Iceland, Liechtenstein, Norway, Bulgaria, Cyprus, Czech Republic, Estonia, Hungary, Latvia, Lithuania, Poland, Romania, Slovakia, Slovenia, Israel, Switzerland.

Further information and application forms: These are available from the WWW at http://www.newton.cam.ac.uk/programs/ITS/itsw01.html, where further information about the EuroConference will be posted and updated.

Completed application form should be sent to Tracey Andrew, Programme and Conference Secretary at the above address, or via e-mail to t.andrew@newton.cam.ac.uk.

Closing day for receipt of applications is 18 March 2001.

## EuroConference

# NONLINEAR ELLIPTIC EQUATIONS AND TRANSITION PHENOMENA 

2 July - 6 July 2001

## Organisers: Professor H. Brezis and Professor E.N. Dancer.

Themes: The aim of this EuroConference is to study Reaction-Diffusion equations and systems with particular emphasis on problems with solutions which exhibit transition phenomena. Such theory is of great importance because of its applications in, for example, biology, material sciences, combustion theory, catalysis, superconductivity, and many other situations. The existence of these solutions is a nonlinear effect. In particular, we study solutions with sharp peaks (possibly many peaks) or sharp transitions on smooth surfaces (including their existence and locations). There has been enormous progress on these problems in recent years. All aspects of such phenomena, including their stability, will be under investigation using a variety of tools: Morse theory, degree theory, finitedimensional reduction, non-smooth critical point theory, gamma convergence, critical exponents etc. It is also intended that there will be several lectures on the recent work on the de Giorgi conjecture and its relation to transition on surfaces. A number of the lectures will be designed as survey lectures introducing the academic to the many techniques.

Speakers are likely to include: T. Bartsch, H. Berestycki, H. Brezis, K.C. Chang, Xinfu Chen, M. Del Pino, P. Felmer, V.A. Galaktionov, C. Gui, Y.Y. Li, M Mimura, P. Sternberg, J. Velazquez, J. Wei.

Location and cost: The EuroConference will take place at the Newton Institute and accommodation for participants will be provided in single study bedrooms with shared bathrooms at Wolfson Court, a hall of residence adjacent to the Institute. The workshop package costs $£ 300$, which includes registration fee, accommodation, breakfast and dinner from dinner on Sunday 1 July until breakfast on Saturday 7 July, and lunches and refreshments on the days that lectures take place.

Further information and application forms: These are available from the WWW at http://www.newton.cam.ac.uk/programs/NPD/npdw04.html, where further information about the EuroConference will be posted and updated.

Completed application forms should be sent to Maureen Clark at the above address, or via e-mail to m.clark@newton.cam.ac.uk. Scientific enquiries may be addressed to Professor Brezis (brezis@ccr.jussieu.fr) or Professor Dancer (normd@maths.usyd.edu.au).
Closing date for receipt of applications and abstracts is 28 February 2001.

## RECORDS OF PROCEEDINGS AT MEETINGS

## ANNUAL GENERAL MEETING

held on Friday 24 November 2000 at University College London, Professor M.J. Taylor, FRS, in the Chair. There were present about 80 members and visitors. Dr A.R. Pears and Dr W. Stephenson, Scrutineers, collected ballot papers. The Treasurer, Professor A.O. Morris, presented his annual report, which is published in the Newsletter. Messrs Baker Tilly were appointed as auditors.

Seven people were elected to Ordinary Membership: G.Z. Arone, P.H. Fleischmann, G.W. Gibbons, D.B. Ingham, N. Jacob, D.J. Livingstone, I. Zois; five were elected to Associate Membership: J.H.P. Dawes, D.P. Groves, J.S. Hans, T.P. Horikis, P.L. Wilson; and six were elected to Reciprocity Membership: V.M. Buchstaber, K.Y. Hu, A. Vershik (all of the Amer. Math. Soc.), D.M. Riley (of the Can. Math. Soc.), T. Sano (of the Japan. Math. Soc.), O.J. Adeniran (of the Nigerian Math. Soc.). Six members signed the book and were admitted to the Society.

The President, on Council's behalf, presented certificates to 2000 Society Prizewinners: Polya Prize: T.J. Lyons, FRSE; Senior Berwick Prize: J.F. Toland, FRS; Naylor Prize: A.S. Fokas, Whitehead Prizes: M.A. Chaplain, G.M. Stallard, A.M. Stuart, B.J. Totaro.

Professor T.C. Chinburg gave a lecture entitled 'The Geometry of Gauss Sums'.

After tea, the Scrutineers announced the election results. The following Officers and Members of Council were elected: President: J.T. Stuart, FRS; Vice-Presidents: T.J. Lyons, FRSE, A.J. Scholl; Treasurer: A.O. Morris; Council and General Secretary: J.S. Pym; Meetings and Membership Secretary: N.M.J. Woodhouse; Publications Secretary: E.C. Lance; Librarian: N.L. Biggs; Members-at-Large for two years: A.G. Chetwynd, M.M. Dodson, K.J. Falconer, FRSE, T.W. Körner, S.E. Rees, A.M. Stuart; Member-atLarge for one year: P.A. Covey-Crump. The members elected to the Nominating Committee for 2000 were: N.J. Hitchin, FRS, U.H. Martin. Council membership is completed by the following who were elected for two-year terms in 1999: M.R. Bridson, K.A. Brown, FRSE, J.E. Cremona, M.A.H. MacCallum, D. Preiss.

The newly-elected President, Professor J.T. Stuart, FRS, took the Chair. The retiring President, Professor M.J. Taylor, FRS, then gave his Presidential Address on 'L-functions and Euler Characteristics'.

After the meeting, a reception was held at De Morgan House, followed by the Annual Dinner, which was held at the Montague Hotel and attended by 63 people.

## LONDON MATHEMATICAL SOCIETY PUBLICATIONS PERSONNEL, 2001

| Publications Secretary | E C Lance (1996- ). |
| :---: | :---: |
| Publisher | S P Hezlet. |
| Publications Committee | E C Lance (Convenor); J T Stuart; A G Chetwynd, G Blower; J R Partington, J K Truss; K Erdmann, S M Salamon; J H Davenport, D Singerman; S E Rees. |
| Proceedings Editors | K Erdmann, S M Salamon (1998-2003); A C Sharp (Executive Editor, 1974- ). |
| Journal Editors | J R Partington, J K Truss (1998-2003); A Harper (Executive Editor, 1998-). |
| Bulletin Editors | A G Chetwynd, G Blower (2000-2005); S E Rodd (Executive Editor, 2001- ). |
| Journal of Computation and Mathematics Editors | J H Davenport (Editor-in-Chief), D Duval, P M Neumann, L C Paulson; <br> S E Rodd (Executive Editor, 1998- ). |
| Nonlinearity Editors | P Constantin (LMS, 1998-2002); <br> P Cvitanovic (IOP, 1999-2003). |
| Monographs Editors | H G Dales (1988-2001), P M Neumann (1994-2003). |
| Monographs Advisers | J H Coates (1994-2004), E B Davies (2000-2004), <br> S K Donaldson (1989-2003), <br> W S Kendall (1997-2001), J F Toland (1998-2002). |
| Lecture Notes Editor | N J Hitchin (1997-2002). |
| Lecture Notes Advisers | S Donkin, I B Fesenko, J Roe, E Süli (to 2004). |
| Student Texts Editor | C M Series (2000-2004). |
| Student Texts Advisers | E G Rees, S J van Strien, J D Gibbon, P Olver, M W Liebeck (to 2004). |
| History of Mathematics Series Editor | D H Fowler (LMS joint Editor, 1999-2003). |
| History of Mathematics | J J Gray (LMS joint Adviser, 1999-2003), |
| Series Advisers | T W Körner (LMS joint Adviser, 1998-2002). |
| Newsletter Editors | D J H Garling, S M Oakes. |
| Book Reviews Editors | D Singerman, F Rhodes (1997-2001). |
| Obituaries Editor | A R Pears (1995-2004). |
| Russian Mathematical | H H McFaden (1999-2002), |
| Surveys Editors | D L Johnson (Deputy, 1989-2002). |
| Sbornik: Mathematics Editors | G G Gould (2000-2004), <br> J Wiegold (Deputy, 2000-2004). |
| Izvestiya: Mathematics Editors | D L Johnson (2000-2004), A West (Deputy, 2000-2004). |
| Transactions of the Moscow Mathematical Society Editor | L W Longdon (LMS joint Editor, 1973- ). |
| UK periodicals' backlog | S P Hezlet. |
| LMS Publishing Ltd Board of Directors | J T Stuart (Chair), E C Lance (Secretary and Publications Manager), A O Morris (Treasurer), N M J Woodhouse. |

## LMS COMMITTEES AND REPRESENTATIVES 2001

## COUNCIL COMMITTEES

GENERAL PURPOSES COMMITTEE: President(Chair), Council and General Secretary (Secretary), Treasurer, Meetings and Membership Secretary, Publications Secretary.

FINANCE COMMITTEE: Treasurer (Convenor), President, Publications Secretary, N.L. Biggs, M.A.H. MacCallum, N.M.J. Woodhouse.

PROGRAMME COMMITTEE: President (Chair), Meetings and Membership Secretary (Secretary), K.A. Brown, P.A. Covey-Crump, T.J. Lyons, S.E. Rees, A.M. Stuart.

PERSONNEL AND OFFICE MANAGEMENT COMMITTEE: A.G. Chetwynd (Chair), N.L. Biggs, P. Covey-Crump.

2001 PRIZES COMMITTEE: President (Chair), T.J. Lyons, U. Martin, S.K. Donaldson, J.F. Toland, L.N Trefethen, A. MacIntyre, J.R. Willis.

PUBLICATIONS COMMITTEE: Publications Secretary (Convenor), President, Joint Editors of Bulletin Journal, Proceedings and JCM, Book Reviews Editor, S.E. Rees.

RESEARCH MEETINGS COMMITTEE: E.G. Rees (Chair), A.J. Scholl (Secretary), D. Abrahams, M. J. Bridson, E. Corrigan, A.M. Etheridge, S.J. Hogan, C.J. Isham, G. Robinson, A. Spence, A. Farrow (EPSRC, non-voting).

EDUCATION COMMITTEE: P.T. Saunders (Chair), S.A. Huggett (Secretary), C.J. Budd, T. Porter, P.J. Rippon, J.C. Robson, A.J. Scgoll, W.B. Stewart.

SCHOOLS EDUCATION COMMITTEE: P.T. Saunders (Chair), A.D. Barnard, A.D. Gardiner, J.C. Robson.

COMPUTER SCIENCE COMMITTEE: I.A. Stewart (Chair), A.G. Chetwynd, J.H.C. Gunawardena, W.A. Hodges, R. Martin (IMA), D. Pym, C. Stirling, R.M. Thomas, J. Whiteman (IMA).

COMPUTER SYSTEMS COMMITTEE: M.A.H. MacCallum (Chair), Executive Secretary, Publications Secretary, P. Kemp, S.A. Linton, S.E. Rees, N.M. Stephens.

PUBLICATIONS STRATEGY GROUP: Publications Secretary (Chair), R.J. Archbold, D.J. H. Garling, W.A. Hodges, J.F. Toland.

WOMEN IN MATHEMATICS COMMITTEE: H.D. Robinson (Chair), R.D. Camina, A.C. Chetwynd, M.A.H. MacCallum, E. Mansfield, U. Martin, S.E. Rees, F.A. Rogers, R.M. Williams.

NOMINATING COMMITTEE: J.H. Coates (Chair), K.A. Brown (Council),
A.R. Camina, T.A. Gillespie, U. Martin, N.J. Hitchin.

IMU ADVISORY COMMITTEE: J. T. Stuart, (Chair) E.B. Davies, S.J. Hogan (IMA), J. Howie (Edin. M.S.), C.M. Series, B.W. Silverman (RSS), M.J. Taylor (Royal Soc.), D. Woodrow (ICME).

## Ad Hoc COUNCIL COMMITTEE

LINKS WITH THE IMA: President (Chair), Treasurer, Council and General Secretary, M.A.H. MacCallum.

PUBLICITY OFFICER: P.T. Saunders.
DIARIST: A.J. Scholl.

## LMS REPRESENTATIVES ON OTHER COMMITTEES

BOARD OF LMS PUBLISHING LTD: President (Chairman), Publications Secretary, Treasurer, N.M.J. Woodhouse

LIBRARY COMMITTEE: Librarian, S.E. Rees
EUROPEAN MATHEMATICAL SOCIETY COUNCIL: W.S. Kendall, P.T. Saunders, E.C. Lance.

BRITISH MATHEMATICAL COLLOQUIUM SCIENTIFIC COMMITTEE: A.J. Scholl, J.P.C. Greenlees.

JOINT MATHEMATICAL COUNCIL: P.T. Saunders.
ISAAC NEWTON INSTITUTE MANAGEMENT COMMITTEE: E.B. Davies.
ISAAC NEWTON INSTITUTE SCIENTIFIC COMMITTEE: A.J. MacIntyre, N.J. Hitchin.

ISAAC NEWTON INSTITUTE ADVISORY BOARD: K.A. Brown.
EDINBURGH INTERNATIONAL CENTRE FOR MATH. SCIENCES STEERING COMMITTEE: J.M. Ball.

EDINBURGH INTERNATIONAL CENTRE FOR MATH. SCIENCES PROGRAMME COMMITTEE: J. Cardy, T.J. Pedley.

BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, MATHEMATICS COMMITTEE: T.W. Körner.

COMMITTEE OF HEADS OF DEPARTMENTS OF MATH. SCIENCES: J.W. Bruce. UNDERGRADUATE MATHEMATICS TEACHING COMMITTEE: A.D. Barnard. SCIENCE, TECHNOLOGY AND MATHEMATICS COUNCIL: P.T. Saunders.

TRUSTEE, APPLIED PROBABILITY TRUST: Sir John Kingman.
COLLINGWOOD PRIZE COMMITTEE: A.J. Scholl.
PARLIAMENTARY AND SCIENTIFIC COMMITTEE: J.T. Stuart, P.T. Saunders.
ROYAL SOCIETY'S SCIENTIFIC UNIONS COMMITTEE: M.J. Taylor.
CICIAM: J. Carr.
INTERNATIONAL COMMISSION ON MATHEMATICAL INSTRUCTION:
D. Woodrow

E. BOMBIERI

HONORARY MEMBER 1977

## DIARY

The diary lists Society meetings and other events publicized in the Newsletter. Further information can be obtained from the appropriate LMS Newsletter whose number is given in brackets. A fuller list of meetings and events is given in the Society's web site (http://www.lms.ac.uk/meetings/diary.html).

FEBRUARY 2001
7 Causal Problems Meeting, Manchester University (289)
7 Royal Society Bakerian Lecture, Royal Society, London (290)

9 Edinburgh Mathematical Society Meeting, Edinburgh University (285)
10 Mary Cartwright Lecture, LMS Meeting, Oxford University (287) (289)
23 Mathematics Postgraduate Open Day, King's College London (290)
28 Inaugural LMS Regional Meeting (Midlands),
Birmingham University (289)
28-3 Mar Groups and Geometries Meeting, Birmingham University (289)
MARCH 2001
9 Edinburgh Mathematical Society Meeting, Aberdeen University (285)
18-24 Geometric Analysis and Index Theory Conference, Trieste, Italy (286)
19 Walter Ledermann 90th Birthday Conference, Sussex University (290)
19-24 Discrete and Continuous Stochastic Evolutions Workshop, Warwick University (287)
26 Random Partial Differential Equations, Spitalfields Day, Warwick University (290)
26-29 Quantum Field Theory, Noncommutative Geometry
and Quantum Probability Workshop, Trieste, Italy (286)
26-29 Numerical Methods for Fluid Dynamics Conference, Oxford University (286)
26-31 Computational Stochastic Differential Equations
Workshop, Warwick University (287)
APRIL 2001
2-5 British Applied Mathematics Colloquium, Reading University (288)
2-6 Lévy Processes and Stable Law Conference, Warwick University (287)
7-9 British Topology Meeting, Edinburgh and Heriot-Watt Universities (286)
9 Alfred Goldie 80th Birthday Conference, Glasgow University (289)
9-12 British Mathematical Colloquium, Glasgow University (287)

20 Group Theory Postgraduate Conference, Imperial College (288)

28-29 Great Lakes Geometry Conference, Northwestern University, USA (288)

## MAY 2001

4 Edinburgh Mathematical Society Meeting, Stirling University (285)
6-13 Symmetry and Perturbation Theory Workshop
(SPT2001), Sardinia (284)
28-1 June Harmonic Morphisms and Harmonic Maps
Conference, CIRM, Luminy, France (284)
JUNE 2001
1 Edinburgh Mathematical Society Meeting, St Andrews University (285)
2-5 The Heritage of I. Schur's 1901 Dissertation, Gregynog

Hall, Powys (290)
3-8 Mathematical Population Dynamics Conference, Marrakech (288)
8-10 Belgian Mathematical Society/Deutsche Mathematiker Vereinigung joint meeting, Liège University, Belgium (284) 19-22 Computational Intelligence: Methods and Applications Congress (CIMA 2001) University of Wales, Bangor (283)
19-23 Calculus of Functors, T. Goodwillie, LMS Invited Lectures, Aberdeen University (286)
22 Hardy Lecture, LMS Meeting, London
25-28 Banach Algebras and Cohomology Conference, Newcastle University (288)
25-29 Variational Problems with Singularities Workshop,
Isaac Newton Institute, Cambridge (290)
JULY 2001
1-6 British Combinatorial Conference, Sussex University (276)

2-6 Nonlinear Elliptic Equations and Transition Phenomena
EuroConference, Isaac Newton Institute, Cambridge (290)
4-6 Uncertainty in Geometric Computations MathFIT
Workshop, Sheffield University (287)
5-7 British Congress of Mathematics Education, Keele
University (286)
6 LMS Northern Regional Meeting, Manchester University
9-13 Stochastic Processes and their Applications Conference, Cambridge (275)
9-13 Progress in Partial Differential Equations, ICMS Edinburgh (288)
9-13 Algebraic Graph Theory Workshop, ICMS Edinburgh (288)

9-20 Modern Methods in Scientific Computing and
Applications Seminar, Université de Montréal, Canada (287)

15-20 Algorithms for Approximation IV Symposium, Huddersfield University (286)
16-27 Stochastic Partial Differential Equations Workshop, Warwick University (287)
24-31 Nonlinear Evolution Equations and Dynamical Systems EuroConference, Isaac Newton Institute, Cambridge (290)
29-2 Aug Teaching of Mathematical Modelling and Applications (ICTMA 10), Tsinghua University, China (284)

AUGUST 2001
5-18 Groups-St Andrews, Oxford University (289)
12-19 Homological Conjectures for Finite-Dimensional
Algebras Summer School, Nordfjordeid, Norway (275)
SEPTEMBER 2001
12 LMS South Western Regional Meeting, Bristol University JUNE 2002
24-28 Analytic Number Theory Workshop, Max Plank Institute, Bonn (288)
APRIL 2002
7-12 Joint BMC/BAMC, Warwick University
AUGUST 2002
20-28 ICM2002, Beijing, China (272)

The Newsletter is published monthly except in August. Items and advertisements for inclusion in the Newsletter should be sent to the Editor, Susan Oakes, by e-mail, fax or post to the LMS office (addresses below), to arrive before the first day of the month prior to publication
The London Mathematical Society, De Morgan House, $57-58$ Russell Square, London WC1B 4HS
Tel: 02072919977 fax:020 73233655 , e-mail: Ims@lms.ac.uk.
World Wide Web: hitp: //www Ims ac. ukJ
The London Mathematical Society is registered with the Charity Commissioners.

