THE LONDON MATHEMATICAL SOCIETY NEWSLETTER

No. 301

February 2002

FORTHCOMING SOCIETY MEETINGS Friday 15 February 2002 – London Mary Cartwright Lecture F.C. Kirwan FRS, S.K. Donaldson FRS Wednesday 27 February 2002 – Birmingham Midlands Regional Meeting Model Theory and Logic Wednesday 5 June 2002 – Liverpool Northern Regional Meeting Algebraic Geometry, Knot Theory and Related Areas Friday 21 June 2002 – London Professor A.R. Its (Hardy Lecture)

LMS DURHAM RESEARCH SYMPOSIA AND LMS WORKSHOPS

Durham Research Symposia

The LMS Research Meetings Committee invites proposals for Durham Symposia in 2004 and beyond. The LMS Durham Research Symposia began in 1974, and have now become an established series of international research meetings, with over 65 symposia to date. They provide an excellent opportunity to explore an area of research in depth, to learn of new developments, and to instigate links between different branches of mathematics. The format is designed to allow substantial time for interaction and research. The meetings are held in July, usually lasting for 10 days, with up to around 70 participants, at least half of whom come from the UK. Lectures and seminars take place in the Department of Mathematical Sciences, University of Durham, and participants are housed in en-suite accommodation at nearby Grey College. The

symposia are funded by substantial EPSRC research grants, covering the subsistence costs of participants, and some travel costs.

Detailed proposals are made at least two years ahead; proposals for Durham Symposia for 2004 should be made as soon as possible and in any case by May 2002. Prospective organisers should initially consult the Committee chair, Professor A.J. Scholl (a.j.scholl@ dpmms. cam.ac.uk), to discuss the proposed Symposium and the form the proposal should take. Further details about LMS Durham Symposia can also be found on the Committee's web page (http://www.lms.ac.uk/activities/ research_meet_com/ index.html).

LMS Workshops

The LMS funds through the Research Meetings Committee workshops and small symposia. There is no fixed format for these meetings, which can be held anywhere in the UK. These meet

ings are on a smaller scale than Durham Symposia, and can be on a specialised topic suitable for a period of intensive study, or a wider topic for exposure to the UK community. Applications for a total expenditure in the range £4K to £10K will be entertained. Exceptionally. the Committee may consider proposals for which there is other major support. Applications can be made at any time, but should be received at least 18 months prior to the date of the proposed meeting. More details about workshop funding can be found on the Committee's web pages. Applicants are advised to consult Professor Scholl about their proposed programme before making a formal application.

NEW YEARS HONOURS LIST

Congratulations to Professor Peter Goddard FRS, our President-Designate, and to Professor David Olive FRS who received CBE's for services to theoretical physics. Congratulations also to Professor Richard Brook, formerly chief executive of EPSRC, who received a Knighthood for services to science and engineering. The London Mathematical Society representatives always enjoyed discussing matters with him at the annual meeting of EPSRC with the mathematical societies.

PROFESSOR JOSE M. SOUTO MENENDEZ

Professor Jose M. Souto Menendez, who was elected a member of the London Mathematical Society on 16 December 1971, died on 29 December 2001, aged 54.

ALBRECHT FRÖHLICH

The death of Professor Albrecht Fröhlich was announced in the December Newsletter. A celebration of his life will be held at 2 pm on Sunday 10 February at Robinson College Chapel, Grange Road, Cambridge.

LETTER TO THE EDITOR

Dear Editor

In view of the important role which G.H. Hardy played in the affairs of the Society, I should like to respond to recent correspondence of T.J. Lyons and J.R. Higgins (LMS *Newsletter* No 300, January 2002).

In 1940 Hardy explained at length that he did not glory in the uselessness of mathematics, a view which he thought originated in a crude misrepresentation of a saying of Gauss, [1, p632]. He also wrote that he had been accused of taking this view himself. He went on to discuss the difficulty of balancing the positive and negative effects of scientific knowledge in the conduct of wars.

In 1928 he expressed his contempt for philosophy, as opposed to logic, in the following words (among others): 'philosophy proper is a subject, on the one hand so hopelessly obscure, on the other so astonishingly elementary, that there knowledge hardly counts', [1, p582]. I do not know his general opinion of Bertrand Russell, but my reading of [1, p581 - 606] is that he disagreed with many aspects of the approach to the foundations of mathematics laid out in Principia Mathematica.

> Yours sincerely Brian Davies King's College, London

[1] Collected Papers of G.H. Hardy, Volume 7, Clarendon Press, Oxford, 1979.

PROFESSOR PHILIP G. DRAZIN

Professor Philip G. Drazin, who was elected a member of the London Mathematical Society on 20 May 1988, died on 10 January 2002, aged 67.

PROFESSOR LESLIE HOWARTH

Professor Leslie Howarth, who was elected a member of the London Mathematical Society on 21 March 1946, died on 22 September 2001, aged 90.

LONDON MATHEMATICAL SOCIETY

MARY CARTWRIGHT LECTURE

Friday 15 February 2002

Room G50, School of Oriental and African Studies, Thornhaugh Street, Russell Square, London WC1

3.30 pm - 4.30 pm	Professor S.K. Donaldson FRS (Imperial College) Convex analysis and toric manifolds
4.30 pm - 5.00 pm	Tea
5.00 pm - 6.00 pm	Mary Cartwright Lecture Professor F.C. Kirwan FRS (Oxford) Moduli spaces of Riemann surfaces and holomorphic bundles

A reception will be held at De Morgan House at 6.15 pm with a dinner afterwards at Poons Restaurant, 50 Woburn Place, Russell Square, London WC1 at 7.15 pm. The cost will be £23.50 per person, inclusive of wine. Those wishing to attend should inform Frances Spoor, 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 11 February 2002**. Those wishing to book accommodation should contact Frances Spoor (tel: 020 7637 3686, e-mail: spoor@lms.ac.uk).

There are limited funds available to contribute in part to the expenses of members of the Society or research students to attend the meeting. Requests for support may 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.

ACADEMIC JOBS WEBPAGE

From 1 February 2002 the jobs page on the LMS website (www.lms.ac.uk/jobs/) will be maintained by Helen Woodward at De Morgan House.

To advertise a position, please send the details, by e-mail if possible, to Helen Woodward (woodward@lms.ac.uk), London Mathematical Society, De Morgan House, 57-58 Russell Square, London WC1B 4HS. Please adopt the format of the sample, which may be accessed from the above web address. For your convenience a blank form is also available for downloading from the site.

The Society would very much like to thank Derek Holt at Warwick for his great contribution in looking after these pages over the years.

VISIT OF PROFESSOR E.V. NOLDE

Professor Evguenia V. Nolde of the Russian Academy of Sciences will be visiting Salford University during February for a period of 4 weeks. The visit is supported by an LMS Scheme 5 grant. Her expected date of arrival is 11 February. For further information contact Dr G.A. Rogerson, School of Sciences, University of Salford (e-mail: g.a.rogerson@salford. ac.uk, tel: 0161 295 3345).

VISIT OF PROFESSOR A. DEFANT

Professor Andreas Defant of Universität Oldenburg, Germany, will visit England and Northern Ireland from 14-27 February. He will deliver lectures at University of Leeds ("Bohr's power series theorem and local Banach space theory"), Lancaster University and Queen's University Belfast ("Maximal theorems of Menchoff-Rademacher type in non-commutative L_p-spaces" at both locations). The visit of Professor Defant is supported by an LMS Scheme 2 grant. For further details contact Dr Martin Mathieu (m.m@qub.ac.uk).

DE MORGAN HOUSE NEWS

Publications Personnel

We welcome Ola Törnkvist, who took up the position of Publishing Editor in January. He replaces Jay Hammond, who has resigned. The Society has three employees on the publications side at De Morgan House. They are Susan Hezlet (Publisher), who has overall responsibility (under the Publications Secretary) for the smooth running of our publications, financial planning, negotiation of contracts and future developments; Ola Törnkvist (Publishing Editor), whose chief responsibility is to see papers through the production process, from acceptance by the Editors to final appearance in print: Ben Holmes (Publications Assistant), who is in charge of seeing papers through the refereeing process, from initial submission to final acceptance or rejection by the Editors.

> Christopher Lance Publications Secretary

VISIT OF PROFESSOR J. ESCHMEIER

Professor Joerg Eschmeier of Universität des Saarlandes, Saarbrücken, Germany, will be visiting the UK from 1 - 15 March, supported by an LMS Scheme 2 grant. He will give seminars at Newcastle (Z.A. Lykova), Leeds (H.G. Dales) and Cambridge (G.R. Allan). For further information contact Zinaida Lykova, Newcastle University (Z.A.Lykova@ncl. ac.uk).

VISIT OF DR N. BOUDI

Dr Nadia Boudi of Université Tetouan, Morocco, will visit the Department of Pure Mathematics at Queen's University Belfast during the months of April and May. Dr Boudi is working in the area of associative and non-associative Banach algebras. Her visit is supported by an LMS Scheme 5 grant. For further details contact Dr Martin Mathieu (m.m@qub.ac. uk).

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THE PROBLEM OF PRIMITIVES

The Italian Embassy monthly series of Science Seminars will be devoted to mathematics in April. Professor Benedetto Bongiorno, University of Palermo, will give a lecture at 6 pm on Wednesday 10 April in the Italian Cultural Institute, 39 Belgrave Square, London SW1X 8NX, on 'The Problem of Primitives'. The problem of recovering a function from its derivative is called 'the problem of primitives'. Within the last twenty years a new approach has been used to study many integration processes and to find the minimal solution to the problem of primitives. The same idea is also used to introduce the notions of 'essential variation' and 'gage variation'. Members of the Society are warmly welcome to attend. The lecture will be preceded by tea at 5.30 pm.

THE INSTITUTE OF LEARNING AND TEACHING

Dr Niall MacKay (Department of Mathematics, University of York; e-mail nm15@york.ac.uk) has been elected to the National Council of the ILT. He writes.

"I have been elected on a platform of protest and reform, which you can find on my website (http://www-users.york. ac.uk/~nm15/ILT.htm). My broad view is that there may be a place for a professional association devoted to supporting teaching in HE. but that it would probably look - well, rather more like the LMS than its current incarnation! While I have no specific constituency among its members. I'm certainly concerned to represent views from mathematics, and am happy to receive comments and opinions."

MODEL THEORY AND MODEL THEORETIC ALGEBRA MEETING

School of Mathematics & Statistics University of Birmingham 28 February to 2 March 2002

The following people have expressed an interest in the meeting and are probable speakers:

- Andreas Baudisch (Berlin)
- Ludomir Newelski (Wroclaw)
- Enrique Casanovas (Barcelona)
- Zoe Chatzidakis (Paris)
- Max Dickman (Paris)
- Franz-Viktor Kuhlmann (Saskatoon) Alex Wilkie (Oxford)
- Salma Kuhlmann (Saskatoon)
- Daniel Lascar (Paris)

- Luc Belair (Quebec)
- Francoise Point (Mons)
- Bruno Poizat (Lyon)
- Charlie Steinhorn (Vassar)
- Frank Wagner (Lyon)
- Carol Wood (Wesleyan)
- Boris Zillber (Oxford)

Please contact Dr R.W. Kaye (R.W.Kaye@bham.ac.uk) as soon as possible if you will be attending the meeting. An accommodation deposit of £50 (£25 for research students) is required (cheques payable to the University of Birmingham and sent to Dr R.W. Kaye, School of Mathematics & Statistics, University of Birmingham, Edgbaston, Birmingham B15 2TT). Some support for postgraduate students may be available. Titles and further details will appear on the website (http://www.mat.bham.ac.uk/R.W.Kaye) in due course.

LONDON MATHEMATICAL SOCIETY MIDLANDS REGIONAL MEETING

UNIVERSITY OF BIRMINGHAM SCHOOL OF MATHEMATICS & STATISTICS

Wednesday 27 February 2002

2.00 pm	Arrival and Poster Display (Physics Bridge, Watson Building)
2.30 pm	Dr P.M. Neumann (Oxford) Infinite Jordan Groups
3.40 pm	Dr A.D. Gardiner (Birmingham) Why Should the Mathematical Community Care About Olympiads?
4.40 pm	Tea (Physics Bridge, Watson Building)
5.15 pm	Professor A.J. Macintyre (Edinburgh) Prospects for Model Theory
6.15 pm	Reception, Prize giving for the best Postgraduate P (Physics Bridge, Watson Building)
7.00 pm	Dinner (University, Staff House)

Please let Richard Kaye (R.W.Kaye@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).

oster

Also please inform Richard Kaye if you would like (or if you have been told you would like) to display a poster at the meeting.

During the three days following this meeting there will be an LMS sponsored miniconference (also at Birmingham) on *Model Theory and Model Theoretic Algebra*. For further information visit the website (http://www.mat.bham.ac.uk/R.W.Kaye/ models2002/).

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.

THE ABDUS SALAM INTERNATIONAL CENTRE FOR THEORETICAL PHYSICS

The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy, a UNESCO-IAEA organisation, located in the Adriatico Riviera in the middle of a larger research complex with 74 resident physicists and 13 resident mathematicians, is seeking to expand its activities in Mathematics in the following directions:

Algebraic and differential geometry; analysis; differential equations; probability theory; mathematical modelling; mathematics of economics; mathematics of computer science.

We are seeking well-qualified scientists active in research with a significant publications record. Candidates from developing countries and women candidates are particularly welcome to apply. Outstanding candidates working in related areas are also encouraged to apply.

The ICTP has a worldwide reputation as a research centre that has as its mission the promotion and support of science in the developing world. The scientists we are looking for should therefore share our motivations and work actively for the dissemination of scientific knowledge. They should be prepared to collaborate in running the training activities of the Centre and be ready to assist and work with the scientific visitors. Every year, the Centre receives of the order of 4,000 visitors.

The positions presently available are United Nations professional positions at the P-4 level (two positions) and at the P-3 level (three positions). The net annual salary ranges are as follows:

For P-3: from US\$46,789 to US\$67,170.

For P-4: from US\$55,589 to US\$77,819.

Most countries recognise our salaries as tax exempt. Moreover, there are special benefits connected with travel to the home country, children's education and other grants. Further details on salaries may be found at http://www.ictp.trieste.it/~staff/psalaries.html

A full *curriculum vitae* to be accompanied by a complete list of publications should be provided on UNESCO Form No. 250 which may be obtained from the Abdus Salam International Centre for Theoretical Physics, Personnel Office, Box 586, I-34100 Trieste, Italy (fax: +39 040 2240593; e-mail: staff@ictp.trieste.it), or electronically from the web (http://www.ictp.trieste.it/). For the junior positions, candidates should arrange for three letters of recommendation to be sent directly to the ICTP Personnel Office at the above address.

The closing date for applications is **31 March 2002**.

UCL LIBRARY SPECIAL COLLECTIONS TEMPORARY CLOSURE 25 February to 5 April 2002

UCL Library Special Collections will be moving to new premises at 140 Hampstead Road, London NW1 during March 2002. Arrangements for services will be as follows:

Reading facilities

The Special Collections Reading Room on the Gower Street site will be closed on all Mondays in February 2002 (4th, 11th, 18th, 25th), but will be open as usual on Tuesdays-Fridays. The Huguenot Society Library will be open on Wednesdays and Thursdays as usual.

From Monday 25 February until Friday 5 April there will be no reading room facilities on the Gower Street site, and there will be no access to rare books, rare store materials (pre-1850), special reference collections, manuscripts or archives. **Services**

An enquiry service will continue until Friday 22 February and be resumed from Monday 18 March. Photocopy orders will be accepted until 15 February and photographic orders until 1 February only. Both these services will only be fully resumed from Monday 8 April. Special Collections will reopen on the Hampstead Road site at 0930 on Monday 8 April.

For further information please contact Special Collections (e-mail: mssrb@ucl. ac.uk, tel: 020 7679 7796) for rare books, special reference collections, manuscripts and archives, or the Stores Service team (e-mail: librarystoresdesk@ucl.ac.uk, tel: 020 7679 7971) for non-rare store materials, or the Library Enquiry Desk (e-mail: library@ucl.ac.uk, tel: 0207 7679 7700, or contact either Head of Special Collections and Archivist: Gill Furlong (g.furlong @ucl.ac.uk) or Rare Books Librarian and Stores Manager: Susan Stead (s.stead@ ucl.ac.uk).



The



Mathematical Association Annual Conference

The Very Best Mathematics For All

The University of Reading 3 - 6 April 2002

The theme of this year's Mathematical Association Annual Conference is 'The Very Best Mathematics For All'. This ideal has been at the heart of the MA since its inception in 1871 as The Association For The Improvement Of Geometrical Teaching.

The conference provides an opportunity for the sharing of practical classroom activities, cutting edge technological developments and the dissemination of, and discussion about, the latest research and policy developments.

In addition to the excellent session providers, we have keynote speakers who are at the centre of current thinking and drawn from far and wide. Our opening speaker is **Professor Brian Butterworth**, the Institute of Cognitive Neuroscience, University College, London, author of the thought-provoking book 'The Mathematical Mind'. **Tim Coulson**, National Director of The National Numeracy Strategy, will give The Hilary Shuard Memorial Lecture and the closing lecture will be given by **Professor Derek Holton**, University of Brisbane. **Professor Ray Monk**, the biographer of perhaps the two most influential philosophers and mathematicians of the 20th century, Russell and Wittgenstein, will give the after dinner speech at the Annual Dinner.

Whether you are teaching Reception, Year 6, Year 9, GCSE, AS, A level or undergraduates, or are involved in Initial Teacher Education or Continuing Professional Development, you will find sessions tailored to your needs. In addition, we have sessions that will involve you in the delights of mathematics itself.

Booking Forms are available from The Mathematical Association 259 London Road, Leicester LE2 3BE or from the website at www. m-a.org.uk Tel: 0116 221 0013 Fax: 0116 212 2835 Email: conference@m-a.org.uk

INVARIANT AND SYMMETRY-PRESERVING ALGORITHMS FOR N-BODY SIMULATION

This is a two day international meeting, being held at the University of Leicester from 25-26 April 2002, to unite researchers from astronomy, mathematics and physics with shared interests in N-body simulation to consider the most recent developments and future directions in the theory of methods, algorithm construction, and modern applications. The meeting is sponsored by the London Mathematical Society. Additional support is being provided from the EPSRC (through the Warwick Symposium on Mechanics and Symmetry) and the Centre for Mathematical Modelling at the University of Leicester.

Algorithms for Coulombic N-body problems have many important applications, such as few-body scattering, long term stability of planetary systems, and stellar cluster evolution: similar methods are used in other applications, such as to propagate spacecraft trajectories and for classical and semi-classical atomic simulations. On the other hand, there has been a steady output of research in recent years from mathematicians studying geometric integrators and their properties. There are also frequent and interesting overlaps between methods that have been constructed for gravitational problems and those used in molecular dynamics (e.g. multiple timestepping, fast multipole methods, etc.) The purpose of this meeting is to facilitate exchange and interaction between some of the most active practitioners in these areas with the goal of building consensus on the outstanding algorithmic issues for N-body simulation

Topics to be discussed at this meeting include: geometric (symplectic. reversible) integrators, multiple timescale integrators (multiple timestepping, mollified methods, reversible averaging), methods for treating close approaches in Coulombic systems, symplectic correction methods, adaptive geometric integrators, individual timestep methods, backward error analysis of geometric integraswitching tors. and methods. Connections to other related topics, such as Smoothed Particle Hydrodynamics. which often includes a gravitational component, will also be on the program.

Invited speakers: Sverre Aarseth (Cambridge), Matthew Bate (Exeter), Begona Cano (Valladolid), Jason Frank (CWI, Amsterdam), Massimiliano Guzzo (Padua), Ernst Hairer (Geneva), Matthew Holman (Harvard). Wang Koon (Caltech), Martin Lo (NASA), Christian Lubich (Tübingen), Rosemary Mardling (Monash), Seppo Mikkola (Turku), Ander Murua (Basque Country), Reinout Quispel (LaTrobe), Sebastian Reich (Imperial), Viswaneth Divakar (Michigan), Haruo Yoshida (Tokyo Observatory).

There will be a poster session. There will also be a few openings for contributed talks. Special funding has been reserved for UK research students.

The meeting is being organized by Ben Leimkuhler (bl12@mcs.le.ac.uk) and James Murray (jmu@star.le.ac.uk). For more information visit the website (http://www.mmc.le.ac.uk/common/ conference/nbody.html) or contact one of the organizers.

LAST LMS NEWSLETTER

This will be the last Newsletter you will receive if you have not yet paid your 2001/02 LMS subscription, which was due on **1 November 2001**. If you have misplaced your renewal of subscription form, which was included with your

October 2001 Newsletter, either contact the LMS Office (e-mail: membership@ lms.ac.uk; tel: 020 7637 3686; fax: 020 7323 3655) or download the form from the LMS website (http://www.lms.ac. uk).

THE INSTITUTE OF MATHEMATICS AND ITS APPLICATIONS



EXECUTIVE DIRECTOR

Applications are invited for the post of Executive Director of the IMA from those experienced in the management of mathematics or science based organisations. The Institute is a learned society and the chartered professional body for mathematicians in the UK. Working from the Institute's offices in Southend-on-Sea, the Executive Director guides the Institute in the development and implementation of its policies, manages the staff and the budget, and works towards improving services to its members.

The post, which becomes vacant on 1 July 2002, is pensionable with a starting salary in the region of £50,000.

Further details are available from: Dr A.M. Lepper, The IMA, Catherine Richards House, 16 Nelson Street, Southend-on-Sea, Essex SS1 1EF (tel: 01702 354020, fax. 01702 354111, e-mail: post@ima.org.uk). Further information is also available on the web (www.ima.org.uk).

BRINGING MATHEMATICIANS INTO BIOLOGY

The Human Frontier Science Program is an international funding agency, supported by the G7 governments, the European Union and Switzerland. The HFSP supports interdisciplinary, international collaborations in the life sciences. with an increasing focus on bringing scientists from various fields such as physics, mathematics, chemistry, computer science and engineering together with biologists to open up new approaches to understanding complex biological systems. The HFSP promotes international collaboration through collaborative research grants and post-doctoral fellowships.

The next deadline for applications for research grants is **3 April 2002** and for fellowships **1 September 2002**. Further information can be obtained from the HFSP website (http://www.hfsp.org).

COMBINATORICS AT UCL

The fourth annual One-Day Meeting in Combinatorics at University College London will be held on Wednesday 6 February 2002. The meeting will take place in Room 505 of the Department of Mathematics, with talks starting at 11 am and coffee available beforehand from 10.30 am. This year's speakers will be Imre Barany, Zoltan Füredi, Bill Jackson, Marek Karpinski and Jorge Ramirez Alfonsin.

Anyone who is interested is welcome to attend. There are funds available to contribute to the expenses of research students who wish to attend the meeting. For further information contact Alex Scott (e-mail: scott@math.ucl.ac.uk, tel: 0207 679 2128) or visit the website (www.ucl.ac.uk/Mathematics). Funding for this event is being provided by the London Mathematical Society and the British Combinatorial Committee.

Existing and potential connections between mathematics and theatre were explored at a day-long conference and workshop, which took place at the Tron Theatre, Glasgow on Sunday 9th December. The meeting was organised by Suspect Culture, one of Scotland's leading theatre companies over the past 10 years. There were about 60 participants, including a good number of mathematicians, mostly staff and graduate students from Scottish universities, but including also some from much further afield - for example Drs Imma Galvez from Sheffield and Andrew Tonks of Paris XIII stayed on for the meeting after giving seminars in Glasgow on the preceding Friday. There were a number of interesting talks, and plenty of time for informal discussion, during which I was surprised at the sympathetic interest in mathematics (the purer the better, it seemed) revealed by many of the participants with a background from theatre. For me, there were two particular highlights: first, a fascinating talk by Simon Singh in which - in a tour-de-force use of multi-media - he used extracts from the

Horizon documentary which he directed for the BBC to both give a quick history of Fermat's Last Theorem and its proof, and at the same time to raise various issues concerning the presentation of mathematics in the media; and second, an account by Marcus Du Sautoy of some of the pre-occupations of a pure mathematician, during which he cajoled the audience into becoming a working model of a prime number sieve.

No conclusions were meant to be drawn from the day - in fact, for Suspect Culture it's one of the rules that there should be **no** explicit aims or objectives attached to such events. But if I had to point to one thing I took away from the meeting, it would be the realisation that maybe there are more people around with a strong and genuine interest in that strange pursuit we call mathematics than we sometimes fear in our darker moments. Maybe we should be less defensive, more willing to go half-way in trying to feed the widespread interest in what we do?

> Ken Brown Glasgow University

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 S.A. Huggett, Meetings and Membership Secretary, London Mathematical Society, De Morgan House, 57-58 Russell Square, London WC1B 4HS (tel: 020 7637 3686, fax: 020 7323 3655, email: lms@lms.ac.uk). The format need not be precisely as described, but should be in a similar spirit.

EUROPEAN WOMEN IN MATHS WEB-BASED MENTORING SCHEME

In August the EU agreed to fund a project to provide web-based mentoring to women in mathematics in Europe. Recent reports have highlighted (yet again) the lack of women in higher positions in academia across scientific disciplines. The EU is committed to improving the human potential across Europe, and in particular, to realising the talent of the female population, so this project has been given the go ahead as a step towards encouraging women to progress in their mathematical careers. The funding period for the EU scheme is 2 years and the project co-ordinator is Cathy Hobbs, of Oxford Brookes University, UK (cahobbs @brookes.ac.uk).

Aim and scope of project

The aim of the web-based mentoring scheme is to enable new women mathematicians (e.g. graduate students, those considering graduate work, postdoctoral students) to find mentors amongst the mathematical community who can advise them on mathematical issues and also on issues such as how to apply for grants and how to prepare work for publication. Mentors can also advise on broader gender-related issues faced by women in a mainly male-dominated environment. Using the web to facilitate the mentoring scheme will enable women to form links with mentors across Europe. Similar schemes are now starting up across the world, for example that run by the American Women in Maths organisation. We hope to link with them to provide mentors for European women, and also to provide US mentors for those considering studying in the US. We hope that schemes of this nature will contribute to the support network for women in mathematics and encourage women to progress in their mathematical careers.

Further information

If you are interested in joining the webbased mentoring project as a mentor, or if you would like to use the scheme to find your own mentor please get in touch with Cathy Hobbs. We shall be actively seeking mentors soon and, when the project is up and running (later this year we hope), we will be inviting those who require mentors to visit the site.

> Cathy Hobbs Oxford Brookes University

EURESCO CONFERENCE

A Euresco conference on Symmetries and Integrability of Difference Equations will be held at Giens (near Toulon) in France on 21 - 26 June 2002. The EuroConference will concern Discrete Painlevé Equations and the Solvability of Difference Equations and is organised by C.-M. Viallet (Paris). Euresco is run by the European Science Foundation, with funding from the High Level Scientific Conferences Activity of the European Commission. The conference is open to all researchers, both from industry and academia. The deadline for applications is **28 March**. Application forms, and further information, can be downloaded from the website (http://www.esf.org/euresco/02 /pc02185).

ABEL BICENTENNIAL CONFERENCE

The year 2002 marks the bicentennial of the birth of Niels Henrik Abel, 1802-1929. The Abel Bicentennial conference is to be held at the University of Oslo from 3-8 June. The conference will present an overview of the mathematical heritage of Niels Henrik Abel and, based upon this heritage, identify new mathematical trends for the 21st century. The conference will include sections on History of Mathematics. Algebraic Geometry. Complex Analysis, Differential Equations and Non-commutative Geometry. For further information visit the website (http://www.math.uio.no/abel/main. html).

UNIVERSITY OF CAMBRIDGE

DEPARTMENT OF PURE MATHEMATICS AND MATHEMATICAL STATISTICS

University Lectureship in Computational Number Theory

Mathematicians with an established record of research in Computational Number Theory or related areas are invited to apply for this established post. The new Lecturer will be expected to play a full role in research activities in Cambridge in Number Theory. As part of his or her teaching duties, he or she will be expected to assist with the organisation of undergraduate computer projects in Pure Mathematics, and will receive a compensating reduction in his or her lecturing and examining duties. The appointment should begin by 1 October 2002 but is available immediately.

Further particulars may be obtained from the Head of Department, DPMMS, Centre for Mathematical Sciences, Wilberforce Road, Cambridge CB3 0WB (or telephone (01223) 337996; fax (01223) 337920; email the Administrator, S.Lowe@dpmms.cam.ac.uk; consult http://www.dpmms.cam.ac.uk).

Applications should be sent to the Head of Department and should include a *curriculum vitae* and e-mail address, list of publications, and the names, postal and e-mail addresses of 3 referees. Candidates must ask their referees to send their reports direct to the Head of Department, to reach him by the closing date.

The closing date for applications is 31 March 2002

The University is committed to equality of opportunity and has a policy on arrangements for part-time work

ICMS Associated Meeting

Workshop on Modern Problems in Applied Probability: Large Deviations, Long-Range Dependence and Simulation, with Applications to Stochastic Networks and to Risk

> Heriot-Watt University, Riccarton, Edinburgh 21-29 August 2002

Organised by:

Stan Zachary (s.zachary@ma.hw.ac.uk) Serguei Foss (s.foss@ma.hw.ac.uk)

Scientific Advisory Committee:

Soeren Asmussen (Lund) Francois Baccelli (INRIA) Onno Boxma (Eindhoven TU)

Scientific Programme:

The theme of the workshop is the study of rare events in probability theory, and the applications of this theory. Major areas of application are to the occurrence of congestion in telecommunication and computer networks, e.g. the internet, and risk processes in insurance and in the study of extremes of the environment.

Two areas of probability theory, each with their own methodology, contribute to the study of rare events. The first is that of classical large deviations theory. The second area is that of the study of long-range dependence and of heavy-tailed distributions. The workshop will bring together leading mathematicians from both these fields for a period of intensive presentation and discussion of the most recent and important results, and to advance knowledge and research in this important field.

The meeting is supported by the London Mathematical Society.

The meeting website contains detailed information and a registration form: http://www.ma.hw.ac.uk/icms/meetings/2002/prob/index.html

THE INTERNATIONAL CENTRE FOR MATHEMATICAL SCIENCES 14 India Street, Edinburgh EH3 6EZ Tel: +44 (0)131 220 1777; fax: +44 (0)131 220 1053; e-mail: icms@maths.ed.ac.uk

BRITISH TOPOLOGY MEETING

The 17th British Topology Meeting will take place at the University of Leicester on Friday 5th and Saturday 6th April 2002 (immediately before the start of the BMC/BAMC in Warwick). As usual, the BTM seeks to provide a forum for British topologists and for researchers in related areas to exchange ideas and encourage collaboration. Invited keynote talks will be this given year by Paul Goerss (Northwestern) and Peter Teichner (San Diego and MPI Bonn). The remainder of the lectures will be given by a broad range of UK topologists; suggestions for speakers or offers of talks should be sent to the organisers and contributions by younger members of the community are particularly encouraged.

The meeting will be organised by John Hunton (J.Hunton@mcs.le.ac.uk), Frank Neumann (F.Neumann@mcs.le.ac.uk) and Dietrich Notbohm (D.Notbohm@ mcs.le.ac.uk) and is supported by an LMS conference grant. Further details will be available on the website (http://www.m cs.le.ac.uk/research/pure/BTM17.html).

AARHUS TOPOLOGY

The 6th Aarhus Topology Conference, celebrating Ib Madsen's 60th birthday, will be held at Aarhus University, Denmark from 10 - 16 June 2002. The Invited Speakers are: Raoul Bott, Ralph Cohen, Yakov Eliashberg, Tom Goodwillie, Jesper Grodal, Karsten Grove, Lars Hesselholt, Mike Hopkins, Wolfgang Lück, Mike Mandell, Fabien Morel, Bob Oliver, Erik Pedersen, Graeme Segal, Dennis Sullivan, Zoltan Szabo, Peter Teichner, Ulrike Tillmann, Vladimir Turaev. For further information visit the web (http://www.imf.au.dk/AT2002/).

ERRATUM

With apologies to the Mathematical Association: their article published in the January *Newsletter* (pages 23-24) has a missing hyphen in the web address. The correct address is www.m-a.org.uk

MFCSIT2002

A conference on the Mathematical Foundations of Computer Science and Information Technology, (MFCSIT2002) will be held at the National University of Ireland, Galway on 18-19 July (arrival day: 17 July). A Special Session on Coding Theory is being organised by Patrick Fitzpatrick (pat.fitzpatrick@ucc.ie), and it is expected that other special sessions will also be arranged. The main speakers will include:

- Derek Holt (Warwick)
- William Lawvere (Buffalo, New York)
- Peter Jeavons (Oxford)
- Matthew Hennessy (Sussex)
- David MacKay (Cambridge)
- Mark Sofroniou (Wolfram Research)

The organising committee consists of the following: Micheal Mac an Airchinnigh (Trinity College, Dublin), Anthony K. Seda (NUI, Cork), Michel Schellekens (NUI,Cork), Ted Hurley (NUI, Galway), Sharon Flynn (NUI, Galway), Michael McGettrick (NUI, Galway), Niall Madden (NUI,Galway).

For further information visit the website (http://grobner.nuigalway.ie/MFC-SIT2002/). Address all queries to: MFC-SIT2002@grobner.nuigalway.ie.

SPRING TOPOLOGY AND DYNAMICS CONFERENCE

The 2002 Spring Topology and Dynamics Conference will be held at the University of Texas at Austin from 21-23 March 2002. There will be eight invited one hour talks, twenty invited half-hour talks, and 15-minute contributed talks. The halfhour talks and contributed talks will be held in four parallel sessions: geometric topology, geometric group theory, continuum theory/dynamical systems, and settheoretic/general topology. For a list of invited speakers, registration, hotel and other information visit the conference website (http://www.ma.utexas.edu/ topcon/index1.html).

COMBINATORICS 2002

The conference Combinatorics 2002 will be held in Maratea (Potenza), Italy, from 2 - 8 June 2002. The conference will cover the following topics: combinatorial theory, finite geometries, incidence structures, coding theory, designs and graphs.

Invited speakers: J. Bierbrauer (Michigan Technological University, USA), W. Jackson (Goldsmiths College, UK). N.L. Johnson (University of Iowa. USA), C.C. Lindner (Auburn University, USA), L. Lovász (Microsoft Research, Washington, USA, and Eötvös Loránd University, Hungary), G. Lunardon (Università 'Federico II', Italy), K. Metsch (Universität Giessen, Germany), T. Penttila (University of Western Australia, Australia), T. Szönyi (Eötvös Loránd University, Hungary), J.A. Thas (Universiteit Gent, Belgium), Q. Xiang (University of Delaware, USA). Furthermore, special lectures in honour of R. Baer and B. Segre will be given by P.V. Ceccherini (Università 'La Sapienza', Rome, Italy), C. Hering (Universität Tübingen, Tübingen, Germany), J.W.P. Hirschfeld (University of Sussex, UK).

The organisers are A. Bonisoli, A. Cossidente, M. Funk, G. Korchmáros, V. Napolitano, A. Siciliano, A. Sonnino. For further information about Combinatorics 2002 visit the website (http://www2.unibas.it/utenti/comb 2002).

MATHS IN ACTION

A second series of public lectures under the general title 'Maths in Action' will be held at the Royal Institution, 21 Albemarle Street, London W1S 4BS, with the support of EPSRC. The series is designed to illustrate the power of mathematics and its applications in diverse 'everyday' situations and should appeal to anyone with a lay person's interest in mathematics and especially to sixth-formers. The lectures are on Thursdays starting at 6.30 pm.

- February 7 Professor Philip Maini Understanding pattern formation
- March 14 Professor Steven Bishop Chaos and its implications for engineering

April 4 Dr Joan Lasenby Geometry in action: from Escher to the Millennium Bridge

May 2 Dr Tom Körner Why are we not all called Smith?

June 13 Dr Rebecca Hoyle

Modelling people

Tickets cost £7 for adults, £5 for concessions and £2.50 for Royal Institution School Subscribers booking groups of 10 or more. Booking line: 020 7679 2985; email: bookings@ri.ac.uk. Further information can be found on the RI website (http://www.ri.ac.uk) or telephone 020 7409 2992.

POSTGRADUATE OPEN DAY AT KCL

The Mathematics Department of King's College London is holding an Open Day for all prospective MSc, MPhil and PhD students on the Friday 22 February.

Areas of possible supervision at King's include specialities within Analysis and Partial Differential Operators, Number Theory, Geometry and Topology, Theoretical Physics, Theory of Neural Networks and Disordered Systems, Financial Mathematics and Mathematical Biology. Taught MSc courses are also available in Pure Mathematics, Mathematical Physics, Financial Mathematics, Information Processing and Neural Networks.

Visit the website (http://www.mth. kcl.ac.uk/postgraduate/openday2002.ht ml) for full details and a registration form. These details, an application form and an information booklet 'Postgraduate Mathematics at King's' may also be obtained from Mrs Faye Daniel, Mathematics Department, King's College, Strand, London WC2R 2LS (e-mail: pg.maths@kcl.ac.uk, tel. 020 7848-2107).

POPULAR LECTURE VIDEOS

The LMS Popular Lecture videos are designed for a non-specialist audience, A-level students, secondary school students and amateur mathematicians. The videos for purchase cost £10 each, but can be obtained at the reduced price of £7.50 each if you buy two or more. The videos for hire cost £5 for a one month period. To place an order please contact Frances Spoor, London Mathematical Society, De Morgan House, 57 - 58 Russell Square, London WC1B 4HS (tel: 020 7637 3686, fax: 020 7323 3655, e-mail: spoor@lms.ac.uk) or visit the website (www.lms.ac.uk).

TO PURCHASE:

SIMPLICITY AND COMPLEXITY Professor J. Barrow

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

FLOATING, SPINNING, TUMBLING Dr F. Berkshire

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

SIMULATING THE WORLD Professor C.J. Budd

How maths helps us to: drive a supersonic racing car, make dinosaurs live again, or leave the solar system, without moving from our desks.

CODES Professor P.J. Cameron

From catching out a liar, to sequencing the human genome, or designing a quantum computer - there's a code that does the job.

FRACTALS - THE NEW GEOMETRY Professor K.J. Falconer

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

MARRYING, VOTING, CHOOSING Dr T.W. Körner

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

GIRAFFE BLOOD FLOW & PATTERN-FORMING BACTERIA Professor T.J. Pedley

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

TANGENT CIRCLES, PATTERNS & PACKINGS Professor C.M. 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.

TO HIRE:

STAYING AHEAD OF THE OPPOSITION by Professor M.D. Atkinson

Number sequences are found in nearly every area of mathematics. The same sequence appearing in two different areas is often the first clue that these areas might be connected. This lecture looks at one such sequence, the Catalan sequence, from this point of view.

DESIGNING EXPERIMENTS WITH ALLOWANCE FOR INTERFERING NEIGHBOURS by Professor R.A. Bailey

Agricultural experiments are expensive. A little mathematics can improve the design of these experiments and so gain more information for the same cost. The Latin square is one standard design. However, if any treatment affects the performance on neighbouring plots, then more sophisticated designs are needed.

WALLPAPER PATTERNS IN DIFFERENT GEOMETRIES by Dr A.F. Beardon

Wallpaper patterns arise by translating, rotating, or reflecting, a given motif to produce a tessellation of the Euclidean plane. Analogous patterns exist in hyperbolic (non-Euclidean) geometry and in spherical geometry, and the way in which the underlying geometry affects the patterns is discussed.

CHAOLOGY by Professor M. Berry

In Newtonian mechanics the present state of a system determines its future, but that future need not be predictable: there are simple systems for which the trajectories can be as random as coin tosses. In the lecture some concepts of the emerging science of chaology are illustrated by means of a simple machine.

HOW MATHEMATICS GETS INTO KNOTS by Professor R. Brown

The lecture starts from the oldest known knot, dating from 7,200 BC, and shows knotting and interlacing as a motif in art and sculpture, as well as a basic practical skill. The mathematics of knots deals with their classification; with the arithmetic properties of the operation of tying one knot after another, and with the remarkable algebra which models wrapping string around a knot.

GEOMETRY AND COMPUTERS by Dr P. Giblin

Modern geometry interacts with computers in several ways. Computers can draw pictures for geometers to look at, helping them to formulate new results and suggesting proofs. But also geometry provides vital tools for those developing computer vision. Various interactions are described and illustrated by still and moving pictures.

NEW WINE IN OLD BOTTLES: FIBONACCI AND LUCAS NUMBERS REVISITED by Professor P.J. Hilton

Intriguing number tricks can be explained by analysing the properties of Fibonacci numbers and the related Lucas numbers. The explanations themselves benefit from further explanations which, in their turn, lead to further discoveries.

GAMES THAT SOLVE PROBLEMS by Professor W.A. Hodges

Mathematicians don't just solve problems. They also find methods for solving new kinds of problems. How can they do this? The lecture describes various attempts to answer this question during the last 150 years. One important recent approach is based on a kind of 'spot the difference' game; simple examples are given.

HOW SHOULD A MATHEMATICIAN THINK ABOUT SHAPE? By Professor D.G. Kendall

The short answer is - by creating a space in which each shape 'lives' as a point, in such a way that natural questions about shapes translate into geometrical questions concerning the new space. This subject is only about 10 years old, but is already leading to new insights and has interesting applications in archaeology and astronomy.

HOW TO STUDY RANDOM SHAPES by Professor J.T. Kent

Shape is a key aspect of geometric objects. Two objects are said to have the same shape if they are identical except for changes in location, rotation and orientation. This talk describes how to compare shapes, average shapes, and deform one shape into another. Applications will be given from biology, medicine and computer vision.

THE RISE AND FALL OF MATRICES by Professor W. Ledermann

A description of the revolutionary paper of 1858 by Cayley and the change of emphasis of the teaching of linear algebra from determinants to matrices and linear maps, with historical background.

THE ART OF ASYMPTOTIC APPROXIMATION by Professor F.G. Leppington

In many mathematical problems the equations contain a small number, called a parameter. An asymptotic estimate is an approximation when this number becomes smaller and smaller. The ideas are described with reference to (i) a simple cubic equation and (ii) a differential equation.

GAMES ANIMALS PLAY by Professor J. Maynard Smith

Game theory is applied by an eminent biologist to give an insight into animal contests (for instance, for mates), leading to an explanation of why there are an (almost) equal number of male and female births, the behaviour of the Hamadryas baboon, and the funnel web spider.

OPTIMIZATION OF RUNNING AND JUMPING by Professor McNeill Alexander Why do we walk to go slowly and run to go faster? At what speed should a rhinoceros gallop like a cat? Why do high jumpers run up so slowly? Remarkably simple mathematical models help us to answer such questions.

HEADS I WIN, TAILS YOU LOSE by Dr L.R. Mustoe

An introductory look at the theory of games. Emphasis is placed on the use of simple mathematical techniques to solve problems. A wide range of topics in the area is surveyed.

A BREAKTHROUGH IN ALGEBRA by Dr P.M. Neumann

Groups are algebraic structures used for measuring symmetry. Finite groups are composed of simple groups in much the same way as integers are products of prime numbers. This lecture gives a survey of simple groups and their recent classification.

FERMAT'S LAST THEOREM by Dr R.G.E. Pinch

This infamous problem, which was posed in the 1630s, may now have succumbed. We describe the successes and failures along the way.

CODES AND CIPHERS by Professor F.C. Piper

An introduction to the art (or science!) of keeping information secret. One of the main themes is how the advent of fast computers has affected cryptography.

WILD GEOMETRY by Professor N. Ray

Tame geometry is epitomised by familiar shapes of everyday life. Wild geometry is more mysterious, including such intricate objects as the Artin-Fox arc, the Alexander horned sphere and Antoine's necklace.

HOW TO SEE OBJECTS IN FOUR DIMENSIONS by Professor S.A. Robertson

Our experience of the physical world through sight, touch and hearing is the raw material from which classical Euclidean plane and solid geometry are derived. Geometrical structures in fourdimensional space can also be understood in visual terms, as this lecture demonstrates.

MEASURING THE MARIGOLD by Professor P.T. Saunders

Mathematics can be applied to biology in its own right, not just as a sort of technical assistant to physics and chemistry. It can help explain why Friesian cows don't all look the same, how fruit flies get the right number of segments and why the angle 137.5° turns up so often in plants.

STAMPING THROUGH MATHEMATICS by Dr R.J. Wilson

This video produced by the BBC for the Open University, presents an overview of the history of mathematics, from earliest times to the modern computer age. The talk is illustrated by slides of 70 postage stamps featuring mathematics and mathematicians.

GEOMETRY AND PERSPECTIVE by Professor E.C. Zeeman

The vanishing points and observation points of perspective are explained, and the underlying theorems in 3-dimensional Euclidean geometry are proved. The results are illustrated with renaissance paintings and a reconstruction of Brunelleschi's original experiment demonstrating his discovery of perspective on 1420.

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S. KARLIN HONORARY MEMBER1991

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 2002 10-16 Aarhus Topology Conference, Aarhus University 2 SECANTS. Royal Holloway University of London. Surrey (300) 17-21 Householder Symposium XV, Peebles Hydro 6 Meeting in Combinatorics, University College (301) Hotel, Scotland (296) 10 Fröhlich Memorial Service, Robinson College Chapel, 21 LMS Meeting, Hardy Lecture, London (298) Cambridge (301) 21-26 Symmetries and Integrability of Difference 15 Edinburgh Mathematical Society Meeting, Edinburgh Equations, Giens, France (301) (299)24-28 Analytic Number Theory Workshop, Max Plank 15 Mary Cartwright Lecture, London (299) Institute, Bonn (288) 27 LMS Midlands Regional Meeting, Birmingham 24-29 Topology, Geometry and Quantum Field Theory University (299) Symposium, Oxford (300) 28 - 2 Mar Model Theory and Model Theoretic Algebra 27-2 July LMS Invited Lectures, Professor P. van Mini-Conference, Birmingham University (299) Moerbeke, Leeds University (298) **MARCH 2002 IULY 2002** 1 North British Functional Analysis Seminar, Newcastle 1-6 The Teaching of Mathematics Conference, Crete, upon Tyne University (300) Greece (297) 2 Operator Theory Conference, Newcastle upon Tyne 7-19 Numerical Analysis Summer School, University of University (300) Durham (295) 8 Edinburgh Mathematical Society Meeting, Dundee 8-19 Normal Forms, Bifurcations and Finiteness (296)Problems in Differential Equations SMS-NATO ASI 17-27 Semi-Classical and Quantum Multibody Systems Meeting, Université de Montréal, Canada (298) Workshop, Warwick University (298) 8-26 Algebraic K-theory and its Applications School and 18-22 Quantum Topology Workshop, Warwick Conference, ICTP, Italy (300) University (300) 18-19 Mathematical Foundations of Computer Science 21-23 Topology and Dynamics Conference, University of and Information Technology Conference, National Texas (301) University of Ireland (301) 24-28 Differential Equations LMS/EPSRC Short Course, 21-26 Computation and Analytic Problems in Spectral Cambridge University (297) Theory Workshop, University of Wales (296) APRIL 2002 21-27 Geometry, Symmetry and Mechanics II Workshop, 5-6 17th British Topology Meeting, Leicester University Warwick University (298) (301)23-2 Aug EDGE mid-term Summer School and 7-12 Joint BMC/BAMC, Warwick University (296) Conference, Edinburgh (299) 10 'The Problem of Primitives' Lecture, Italian Cultural 26-27 Meeting in honour of 65th birthday of M.S.P. Institute (301) Eastham, University of Wales (296) 14-20 Classical N-Body Systems and Applications AUGUST 2002 Workshop, Warwick University (298) 5-15 New Directions in Dynamical Systems, Ryukoku 22-23 Astrodynamics Workshop, Surrey University (298) and Kyoto Universities (293) 25-26 Invariant and Symmetry - Preserving Algorithms 20-28 ICM2002, Beijing, China (297) for N-Body Simulation Meeting, Leicester University 21-29 Workshop on Modern Problems in Applied Probability, Heriot-Watt University (301) (301) MAY 2002 29-2 Sept Nonlinear Partial Differential Equations 3 Edinburgh Mathematical Society Meeting, Aberdeen International Conference - Theory and Approximation, (2.96) City University of Hong Kong (297) 13-31 Probability Theory School and Conference, ICTP. SEPTEMBER 2002 Italy (300) 1-9 Algebraic Hyperstructures and Applications 19-26 Symmetry and Perturbation Theory Conference, Congress, Samothraki Island, Greece (300) Sardinia, Italy (299) 9-27 Intersection Theory and Moduli, ICTP, Italy (300) **JUNE 2002** OCTOBER 2002 2-8 Combinatorics 2002 Conference, Maratea, Italy (301) 23 LMS Meeting, Four Colour Problem, London 3-8 Abel Bicentennial Conference, University of Oslo NOVEMBER 2002 (301)22 LMS Annual General Meeting, London 5 LMS Northern Regional Meeting, Liverpool University APRIL 2003 (298)7-10 BMC, University of Birmingham (296) 7 Edinburgh Mathematical Society Meeting, St Andrews **IULY 2003** (296)7-11 ICIAM 2003, Sydney, Australia (298)

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.

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Printed by Armstrong Press Ltd, Southampton 023 8033 3132