THE LONDON MATHEMATICAL SOCIETY NEWSLETTER

No. 244

December 1996

FORTHCOMING SOCIETY MEETINGS Friday-Saturday 21-22 February 1997, Oxford Group Theory Friday-Saturday 23-24 May 1997, Liverpool Friday 20 June 1997, Linnean Society, London

LMS COUNCIL DIARY

Many of the issues which were discussed at the June Council meeting resurfaced at the October meeting. Once again we looked at the agreement with Credit Suisse Asset Management Limited who advise us on our investment policy. The Treasurer reported that progress is being made. There are significant changes in the City in the way that shares are traded and as a consequence we are still negotiating the final version. We also resolved, again, to have a special meeting to look at the long term future of the Society, especially with reference to publications.

The President reported on negotiations with the Royal Society about who should be the adhering body to the IMU, the International Mathematical Union. There have been discussions in the past about the relation between the Royal Society, the LMS and the IMU. In the past we had agreed to make a contribution to main-tain the Group V status of the UK. This is the top group in terms of representation, along with USA, Russia, Germany, Japan and France. The Royal Society is now asking whether it would be better if the LMS were to be the official adhering body (at present it is the Royal Society). However, IMU matters are passed on to the LMS and so the Royal Society is acting as a post office; it makes sense if we accept the role. It appears that the other mathematical societies are happy with this. There is one issue still to be resolved, that is how much will be paid by whom.

An issue which could well be divisive within the community was raised concerning the functioning of the EPSRC pool and the emphasis given to first-class degrees. Are all such degrees of equal value whatever the course or the institution? If they are not all the same how would a fair procedure be developed to make judgements between courses and universities?. Whilst the consensus was that there were differences, the Council had no wisdom to offer on how to devise a method that would be widely acceptable.

The President also reported on discussions about Woolsthorpe Manor - it was the birthplace and home of Newton and is owned by the National Trust. Members might like to visit although at the moment there is little directly concerned with Newton and his work there. The LMS is offering to help the National Trust with advice on how to mount displays about his scientific career.

It was agreed that 50 copies of the Annual Report and Financial Statements would be printed for the Annual General Meeting. They would also be made available at the LMS World Wide Web site. Please make an effort to look at what the Society does and what is the financial position. The Treasurer will be making a report in a later edition of the Newsletter. After nearly two years on the Council, I sometimes feel that Council operates surrounded by a sea of fog. Decisions are taken which we hope are in the best interests of the Society and the members but there is little feedback from the members. There is a tendency to take silence for assent. I trust we get it roughly right. Alan Camina

VISIT OF DR MIKHAIL B. SEVRYUK

Dr Mikhail B. Sevryuk will be visiting the Mathematics Research Centre of the University of Warwick from 9-20 December 1996, where he will participate in the Workshop on Time-Reversal Symmetry in Dynamical Systems. The theme of the workshop will be the dynamical consequences of time-reversal symmetry in dynamical systems and the workshop will bring together scientists from different branches of (applied) mathematics and (theoretical) physics who have been dealing with time-reversal symmetry in recent years.

Dr Sevryuk has been a student of Professor V.I. Arnol'd in Moscow and received his PhD in 1988 for a study devoted to anti-Liapunov resonances at equilibria of reversible vectorfields. Since 1987, Dr Sevryuk has been working in the Moscow Institute of Energy Problems of Chemical Physics. His main scientific interests are the theory of dynamical systems (especially reversible ones), and the theory of atomic and molecular collisions. His research has contributed in an essential way to the theory of reversible dynamical systems. Apart from his numerous research papers, his lecture notes on reversible systems and his recent book on KAM theory, with H.W. Broer and G.B. Huitema, mark his achievements in this area.

The visit of Dr Sevryuk is partially supported by an LMS visiting Research Fellowship.

ASSOCIATE MEMBERSHIP

The Society would like more young mathematicians to become Members.

At its General Meeting on Friday 18 October it was agreed by the Society that mathematicians under the age of twenty-eight will be eligible for Associate Membership, at an annual subscription of £5 for the 1996-7 session. Associate Members have all the privileges of Ordinary Membership. Application for Membership is made in the usual way by completing an application form, and by stating date of birth. (Any Ordinary Member who has not reached the age of twenty-eight by 31 October 1996 may apply to transfer to Associate Membership, by writing to the Assistant Administrator at Burlington House and supplying his or her date of birth.)

Associate Membership ceases on the last day of October following the Associate Member's twenty-eighth birthday. An Associate Member may then become an Ordinary Member, without having to be re-elected.

An application form is enclosed with this Newsletter. Please give it to a young mathematician, and encourage him or her to apply for Membership. Further forms may be obtained from the Assistant Administrator (e-mail: lms@lms.ac.uk).

D.J.H. Garling Meetings and Membership Secretary

LONDON MATHEMATICAL SOCIETY

Spitalfields Day

Wednesday 11 December 1996

Isaac Newton Institute for Mathematical Sciences Seminar Room 1, 20 Clarkson Road, Cambridge

SURFACES, GAUGE FIELDS AND STRINGS

Programme

10:45	Coffee
11:00	R. Dijkgraaf (Amsterdam)
	Duality in Field Theory and String Theory
12:30	Lunch
13:45	F. Kirwan (Oxford)
	Cohomology of Moduli Spaces of Bundles over
	Riemann Surfaces
15:00	H. Nakajima (Tokyo)
	Jack Polynomials and Hilbert Schemes of Points
	on Surfaces
16:00	Tea
16:30	T. Hollowood (Swansea)
	Supersymmetric Monopoles
17:30	Reception

Anyone who is interested is welcome to attend. Lunch will be provided at a nominal charge; please let Tracey Hibbitt at the Institute know by Wednesday 4th December if you intend to come, to help us plan for lunch: telephone (01223) 335999, fax (01223) 330508, e-mail t.hibbitt@newton.cam.ac.uk. There are limited funds available to assist research students to attend; please apply by Wednesday 4th December to Mr M. Sekulla at the Institute (e-mail: m.sekulla@newton.cam.ac.uk). Scientific enquiries may be addressed to Dr N.S. Manton, DAMTP, Silver Street, Cambridge CB3 9EW (e-mail: N.S.Manton@damtp.cam.ac.uk).

BRITISH TOPOLOGY MEETING

The 1997 British Topology Meeting will be held at the Mathematical Institute in Oxford from lunch-time on Wednesday to lunch-time on Friday, 2-4 April. This is the week after Easter. Accommodation will be available at Merton College. The programme will consist of seven or eight invited lectures in addition to the usual eight or ten 30-45 minute talks. Andrew Casson, Mike Hopkins, John Roe, Graeme Segal and Stephan Stolz have already accepted the invitation.

The meeting is being supported by the London Mathematical Society and some money will be available to cover expenses of those participants who are unable to obtain support from their own institutions. If you are interested in attending the conference, please write to Ulrike Tillmann, Mathematical Institute, 24-29 St Giles, Oxford OX1 3LB, or send a message to: tillmann@maths.ox.ac.uk containing your name, postal and e-mail addresses. If you would like to speak, please include a title and a short abstract of your proposed talk.

BOOK REVIEW

Nature's Numbers by Ian Stewart, *Pheonix 1995*

This book is aimed at the general reader who does not necessarily have any mathematical knowledge but is willing to think hard at some points. The sub-title is "discovering order and pattern in the universe" and most of the examples are drawn from nature but the book has another aim: to give some perception of the nature of mathematics and mathematical research. The opening chapters on what mathematics is for and about, with passages on reification (evocatively named as "thingification") and the nature of proof, are to this end.

It is not possible in a brief review to give a catalogue of the wide range of topics considered in the subsequent chapters. The chapter headings (*The*

Constants of Change, From Violins to Videos, Broken Symmetry, The Rhythm of Life, Do Dice Play God?, Drops, Dynamics and Daisies) will give a fair impression of the feast of ideas that is presented. The reader is introduced to bifurcation, chaos and complexity and instructed in the value of good qualitative theories. The accounts in the final chapter of recent research on dripping taps, predator-prey theory and the frequent occurrence of Fibonacci numbers in the description of natural phenomena are fascinating.

Whilst the book is not aimed at mathematicians, I believe they will appreciate it as an example of first-rate popular writing about mathematics. I read it in an afternoon (on a beach in Cyprus) with great enjoyment. The mathematical community should also be grateful to the author for the robust case he makes for the importance of fundamental mathematical research, or "curiosity-driven" research as it is derided by unimaginative bureaucrats, over goal-oriented research. We must hope that this book is widely read and appreciated.

A.R. Pears

49th BRITISH MATHEMATICAL COLLOQUIUM Roval Holloway, April 1997

This will be held from 14 to 17 April. Expected speakers are: W. Fulton (Berkeley), A. Lubotzky (Jerusalem), P. Lions (Paris-Dauphine), M. Pollicott (Manchester), P.M. Neumann (Oxford), J.K. Langley (Nottingham), J. Roe (Oxford), F.W. Clarke (Swansea), P. McMullen (UCL), M.J. Taylor (UMIST), S.B. Cooper (Leeds), J.M. Ball (Oxford), R. Penrose (Oxford), G. Lehrer (Sidney), S. Blackburn (Royal Holloway), M.L. Nazarov (York), S.C. Power (Lancaster), C.J. Mitchell (Royal Holloway). The BMC is supported by the LMS and the EMS. The Secretary is G. de Barra at Royal Holloway. More details can be found on http://galisteo.ma.rhbnc.ac.uk/bmc.html.

LONDON MATHEMATICAL SOCIETY INVITED LECTURE SERIES 1997 Professor J.L. Alperin, University of Chicago Characters, Subgroups and Modules

A series of 10 lectures on representation theory will be given by Professor J.L. Alperin during the week 14 - 18 April 1997 in the School of Mathematics and Statistics, University of Birmingham.

The series will take as its starting point and main motivation the character table and all its mysteries. It will show how this leads to the main topics in representation theory, such as modular representations, groups of Lie type and even the latest notions like derived categories. Many interesting and important open problems will be mentioned, to give an indication of all the worlds that remain to be to conquered. The lectures will be addressed to a wide audience of experts and non-experts, and they should be accessible to research students in nearby fields. Some preliminary reading, from any book on representation theory, would be helpful.

Tentative Programme

- Wedderburn theorems and characters of finite groups: a review. Structure of algebras and their representations. Application to finite groups. Characters and character tables.
- Open problems. The main problem of character theory arising from Brauer's work. The weight, McKay and Dade conjectures. The Knorr-Robinson reformulations using the *p*-subgroup complexes.
- Homological methods. Projective modules, projective resolutions, relatively projective modules and induced modules.
- Cyclic theory. Groups with a cyclic Sylow *p*-subgroup, Brauer trees, blocks.
- Equivalences. Morita equivalences, stable equivalences, derived equivalences, conjectures of Broué and work of Rickard.

Accommodation Some accommodation, costing £23.55 per night for a single room and English breakfast, has been reserved in University House from 13 to 18 April 1997. Modest financial assistance will be available for research students who apply early for accommodation. If you wish to use this accommodation, please contact the organizers as soon as possible; unrequired rooms may have to be released in the middle of January. There are (more expensive) bed and breakfast hotels close to the University where one might be able to find accommodation even on the day of arrival.

Registration Participants are asked to register (by e-mail or letter). There is no registration fee. Early registration (preferably before the end of January) would be greatly appreciated by the organizers, but later registration is also possible.

Contact address For further details, registration, and arrangement of accommodation, please contact Mrs S. Bennett at the School of Mathematics and Statistics, University of Birmingham, Edgbaston, Birmingham B15 2TT (e-mail: s.d.bennett@bham.ac.uk, tel: 0121-414-6593).

WHITHER JOURNALS? RESEARCH COMMUNICATION IN A WEIRD WIRED WORLD

I read with interest the article by David Brannan about electronic journal publishing in the October issue of the LMS newsletter. The article brought out a number of interesting ideas, and the future of research communication (the words "publishing" and "journal" perhaps have excessively limiting connotations) is certain to be an important debate within the mathematical and broader academic community over the next few years.

However, what I would like to do here is not to explore the wants and needs of the mathematics community in these areas, but merely to demonstrate that current ideas of electronic research communication are rather limited. Future technology could take us in many directions, many inconceivable at present. Let us take a deep breath and exercise our imagination.

What I want to explore below is a system of research communication which exploits electronic communication while simultaneously offering an archive potentially superior to present (archiving being the sticking point of many electronic publishing concepts).

One major technological change is that (assuming the material is all in a computer-readable format) it is as easy to distribute a (literally) encyclopaedic amount of documentation as it is to distribute a small (specifiopaedic?) amount. Already review services such as the Mathematical Reviews and the Zentralblatt are available on CD-ROM or across the internet. Assuming there were no copyright restrictions there is little reason why the electronic version of these archives could not also contain the full text of the paper, supplied by the author in an appropriate electronic form.

Under the present model publishers of

journals would clearly impose restrictions on such a system. However, it may be that authors would want to submit their paper only to the "reviewing journal" and not to a traditional journal at all. Instead of the reviewing journal being a stage after journal publication, it becomes a replacement for journal publication.

Note also that if the cost of distributing large amounts of information becomes small, then there is no problem in the same article being published more than once. This opens up a rather elegant model for publication - instead of publishers publishing journals they compete to produce the best (most complete, best indexed, et cetera) *complete* archive of all papers.

In many ways this offers a return to a concept which now seems condemned to the history books - reading a whole journal cover-to-cover. Now, though, the journal is personalized, created on your desktop from a CD-ROM containing the entirety of current mathematical research!

A few questions to finish with. In what ways could new methods of communication change/improve the peerreview process? How much editorial help do authors receive anyway? Need a "journal" have a consistent typeface and style? How can research communication be archived? What is the role of the (hypertext?) survey article in the future? Need the (technical) editorial function reside with the publisher or could it reside in the author's institution? Will new electronic *media* of communication lead to new *structures* of communication? Let us continue to exercise our imagination.

> Colin Johnson Napier University

New journals from Springer



Finance and Stochastics

ISSN 0949-2984 Title No. 780 Editor: D. Sondermann

Subscription information for 1997: Volume 1 (4 issues) DM 248,-*

The purpose of Finance and Stochastics is to provide a high standard publication forum for research

- in all areas of finance based on stochastic methods
- on specific topics in mathematics, in particular probability theory, statistics and stochastic analysis, motivated by the analysis of problems in finance.

in 1997

Computing and Visualization in Science

ISSN pending Title No. 791 Managing Editor: G. Wittum

The fast development of computer technology has opened up new perspectives for modeling in mathematics, physics, biosciences, environmental sciences and engineering. Computing and Visualization in Science is devoted to the development of efficient algorithms for complex models, the visualization of numerical data and results, and the validation of the computational results, including the comparison with experiments. Published in printed and electronic form, supplementary electronic material will also be available.

> Subscription information for 1997:

Volume 1 (4 issues) DM 480,-*



Springer-Verlag, P. O. Box 31 13 40, D-10643 Berlin, Germany.

7

Springer

LOGIC COLLOQUIUM 97 First Announcement

The European Summer Meeting of the Association for Symbolic Logic will be held at the University of Leeds from 6-13 July 1997.

Main Topics Computability Theory, Model Theory, Proof Theory, Set Theory, Philosophy and Psychology of Proof.

Short Course Lecturers R. Shore (Cornell), A. Wilkie (Oxford), M. Rathjen (Leeds), J. Steel (Berkeley).

Plenary Lecturers P. Benacerraf (Princeton), U. Berger (Munich), L. van den Dries (Urbana), S. Goncharov (Novosibirsk), R. Jensen (Berlin), N. Jones (Copenhagen), B. Kim (Fields Institute), J. Knight (Notre Dame), I. Neeman (UCLA), L. Newelski (Wroclaw), J. van Oosten (Amsterdam), D. Over (Sunderland), P. Pudlak (Prague), G. Sacks (Harvard), R. Soare (Chicago), S. Solecki (UCLA), L. Rips (North Western), L. Wallen (Oxford).

Special Sessions There will in addition be special sessions in the main topics, and sessions for short contributed talks. The following will chair the special sessions -

- Computability Theory: K. Ambos-Spies (Heidelberg), S. Lempp (Madison).
- Model Theory: A. Pillay (Urbana).
- Proof Theory: H. Schwichtenberg (Munich), G. Jaeger (Bern).
- Set Theory: S. Friedman (MIT).

Accommodation All participants will be housed at special rates in Devonshire Hall, a well-appointed student residence, about 1 km away from the university campus where all lectures will take place. Accommodation consists mainly of single studybedrooms ("standard" with shared wc and shower facilities, and "superior" with en-suite wc and shower). Approximate costs will be £22 for bed and breakfast per night in a standard room, £32 in a superior room. To include all meals (lunch and dinner) add £20 per day.

Conference Fee £110 if registered before 6 April 1997, and £140 thereafter. Accredited students will be charged half-fee. The ASL will provide a number of modest travel grants to support graduate students in logic. Applicants should send a brief letter of recommendation from the thesis supervisor, together with a short description of present work in logic and an estimate of expenses to be incurred, by 6 April 1997.

Programme Committee S. Buss (San Diego), B. Cooper (Chair - Leeds), W. Hodges (London), M. Hyland (Cambridge), A. Lachlan (Simon Fraser), A. Louveau (Paris), Y. Moschovakis (UCLA), L. Pacholski (Wroclaw), H. Schwichtenberg (Munich), T. Slaman (Chicago), J. Truss (Leeds), H. Woodin (Berkeley).

Leeds Organising Committee B. Cooper, J. Derrick, F. Drake, B. Herwig, D. Macpherson, A. Slomson, J. Truss, S. Wainer (Chair).

Contact Address Logic Colloquium '97, School of Mathematics, The University of Leeds, Leeds LS2 9JT; e-mail: logic97@amsta.leeds.ac.uk; www: http://www.amsta.Leeds.ac.uk/events /logic97/. A further announcement, with application form etc, will appear in February 1997, but those wishing to register now may do so straight away.

WORKSHOP ON STOCHASTIC MODELLING OF PHYSICAL SYSTEMS

This workshop will be held at Cambridge University during 8-12 September 1997. It aims to bring together experts in probability theory and mathematical physics, in order to present recent work and to discuss future developments. Some lecturers will present expository talks, the better to inform the younger researchers. There will also be 'state of the art' research presentations. The meeting is funded in part by the European Union under contract CHRX-CT93-0411 and by the London Mathematical Society. Potential participants are invited to contact Geoffrey Grimmett (e-mail: sarah@statslab.cam.ac.uk) for further information, as it becomes available.



NY3 TIO

From Kant to Hilbert: A Source Book in the Foundations of Mathematics

William Bragg Ewald

This collection represents a comprehensive selection of the most important works on the Foundations of Mathematics in the period from Kant to Hilbert. Kant's *Critique of Pure Reason* is taken as the starting point of the modern period of mathematics while Hilbert was the last great mainstream mathematician to pursue important nineteenth century ideas. The selections are representative samples of foundational work in each of the main branches of mathematics.

Clarendon Press 0-19-853271-7 November 1996 £195.00 Two Volume Set

25% Discount to LMS Members



Categories of Symmetries and Infinite-Dimensional Groups

Yu. A. Neretin

In this book Neretin gives an explicit construction of hidden structures (mantles and trains), and shows how many infinite-dimensional groups are in fact only a small part of a much larger object, analogous to the way real numbers are embedded within complex numbers.

LMS Monographs Series No. 16 0-19-851186-8 July 1996 £65.00 £48.75 Hardback

25% Discount to LMS Members



Super-real Fields: Totally Ordered Fields with Additional Structure

H. Garth Dales and W. Hugh Woodin

This advanced text expounds the established theory of ordered fields, and continues to develop a theory of super-real fields. This theory has important applications in analysis and logic.

LMS Monograph Series No. 14 0-19-853991-6 May 1996 £55.09 £41.25 Hardback

Winner of the Prestigious Kyoto Award in Advanced Technology

Stable Marriage and Its Relation to Other Combinatorial Problems

American

Society

Mathematical

Donald E. Knuth

A Partnership in Mathematics

This book uses the appealing theory of stable marriage to introduce and illustrate a variety of important concepts and techniques of computer science and mathematics. The presentation is elementary, and the topics will also be of interest to nonspecialists. Exercises with answers, an annotated bibliography, and research problems are included.



CRM Proceedings & Lecture Notes American Mathematical Society 0-8218-0603-3 December 1996 £14.95 Paperback

Techniques of Problem Solving

Steven G. Krantz

The purpose of this book is to teach the basic principles of problem solving. This includes both mathematical and non-mathematical problems. Students will be guided on how to translate verbal discussions into analytical data, and learn problem solving methods for attacking collections of analytical questions or data. Included throughout the text are exercises with many solved problems, as well as "challenge problems".



American Mathematical Society 0-8218-0619-X December 1996 £19.95 Paperback

Analysis

Elliott H. Lieb and Michael Loss

A course in real analysis that begins with measure theory, yet quickly brings readers to a level where a wide range of topics - including recent research can be appreciated. Lieb and Loss illustrate the topics with a chapter on the calculus of variations including examples from mathematical physics.



Graduate Studies in Mathematics No. 14 American Mathematical Society 0-8218-0632-7 January 1997 £22.50 Hardback

Innovation, Excellence, Tradition

Oxford University Press

OUP and AMS books are available in Europe from Oxford University Press and from good booksellers. For full details visit our web site: www.oup.co.uk or email: science.books@oup.co.uk To order direct by credit card, call either of the following two numbers, please have your details with you when you dial. Please quote the code LMS1296.

Tel: +44 (0) 1536 454534 or Fax: +44 (0) 1536 454518 Prices and extents are subject to change.

9

VISIT OF DR A.S. BARANOV

Dr A.S. Baranov (Minsk, Belarus) has been awarded an LMS grant (fSU Scheme) to visit the United Kingdom. He will be at the University of East Anglia for the month of February. For further information contact Professor A.E. Zalesskii, School of Mathematics, UEA, Norwich NR4 7TJ or by e-mail: a.zalesskii@uea.ac.uk.

VISIT OF DR E. BAYER-FLUCKIGER

Dr E. Bayer-Fluckiger of the University of Besançon will speak at the University of Edinburgh on the 21st February, at the University of Durham on the 24th February, at the University of Cambridge on the 25th February, and at the University of Nottingham on the 28th February. The titles of her talks are expected to be 'Lattices having an automorphism with given characteristic polynomial' (Edinburgh and Durham), 'Lattices and number fields' (Cambridge), and 'Galois cohomology of simply connected groups' (Nottingham). For locations and confirmation of titles contact Professor A.A. Ranicki, Dr C. Kearton, Professor J.H. Coates and Professor I.B. Fesenko respectively. This visit is receiving support from the London Mathematical Society under a Scheme 2 grant.

COW ALGEBRAIC GEOMETRY SEMINAR

The COW Algebraic Geometry Seminar meets about a dozen times a year, usually in Cambridge, Oxford or Warwick. It is supported by an LMS Scheme 3 grant. The meetings are open to anyone who is interested. Details of forthcoming meetings are available from Gregory Sankaran at Bath (gks@maths.bath.ac.uk) or Gavin Brown at Oxford (gbrown@jesus.ox.ac.uk), or at http:/www.pmms.cam.ac.uk/Seminars/-COW.html.

GROUPS ST ANDREWS 1997 IN BATH

A conference on group theory and related topics sponsored by the London Mathematical Society and the Edinburgh Mathematical Society and organised jointly by C.M. Campbell and E.F. Robertson in St Andrews and G.C. Smith in Bath, will take place from Saturday 26 July to Saturday 9 August 1997 at the University of Bath. This conference continues the sequence of conferences held at St Andrews in 1981, 1985, 1989 and at Galway in 1993.

The invited speakers who will give courses of about four lectures during the first week of the conference are: Professor L. Babai (Chicago), Dr M.R. Bridson (Oxford), Dr C.J.B. Brookes (Cambridge), Professor C.E. Praeger (Western Australia) and Professor A. Shalev (Jerusalem). During the second week there will be a special day of lectures dedicated to Professor W. Burnside led by Professor E. Zelmanov (Yale) and a special day of lectures dedicated to Professor R.C. Lyndon led by Professor C.F. Miller III (Melbourne). A programme of seminars and invited lectures will be arranged in the second week.

Further information and application forms are available from: Dr C.M. Campbell and Professor E.F. Robertson, Mathematical Institute, University of St Andrews. North Haugh, St Andrews KY16 9SS, or by e-mail from: groups97@dcs.st-and.ac.uk. Information is available on the WWW at http://www.bath.ac.uk/~ masgcs/gps97/home.html.

BSHM's 25th AGM

The twenty-fifth Annual General Meeting of the British Society for the History of Mathematics will be held at Birkbeck College, London. Talks will include: Rene Descartes (1596-1650), Philosopher mathematician: a quater-centenary talk, by Muriel Seltman (Greenwich University); Alexander Aitken - his life and work, by Walter Ledermann (Sussex University); and Fashion and Formality -A Presidential Address, by Steve Russ (Warwick University). There will also be a selection of shorter papers. The meeting will take place on Thursday 19 December. For further details, please contact: June Barrow-Green, Faculty of Mathematics, The Open University, Milton Keynes MK7 6AA; tel: 01908-652351; e-mail: j.e.barrow-green@open.ac.uk.

EUROPEAN WOMEN IN MATHEMATICS First Announcement

The 8th general meeting of the European Women in Mathematics (EWM) is organized in collaboration with the International Centre of Theoretical Physics (ICTP) in Trieste, Italy, and will take place at this centre in the period 13-17 December 1997.

Mathematical programme of the meeting: 1. A session on Representations of Groups, organized by Michele Vergne (France)

2. A session on p-adic Numbers, organized by Catherine Goldstein (France).

3. An interdisciplinary session on Symmetries, organized by Ina Kersten (Germany) and Sylvie Paycha (France).

The "non-mathematical" topic of the meeting will be a round table discussion On Women and Mathematics: East-West-North-South, organized by Marie Demlova (Czech Republic) and Marjatta Naatanen (Finland). There will also be organized a poster session, where all participants are encouraged to present their work and to contribute an abstract to the proceedings of the meeting. A second announcement, including application form, will be sent out in January 1997. For further information, please contact: Bodil Branner, Department of Mathematics, Building 303, Technical University of Denmark, DK - 2800 Lyngby, Denmark; email: branner@mat.dtu.dk: fax: +45 45 88 13 99.

SYLVESTER CENTENARY CELEBRATIONS

Two complementary meetings are being organised to commemorate the life and work of James Joseph Sylvester (1814-1897), who died on 15 March 1897. The first, on Friday 14 March 1997, will take place in the Gustave Tuck Lecture Theatre at University College London. where Sylvester was a student and later a professor. Speakers will include Karen Hunger Parshall (University of Virginia), Ivor Grattan-Guinness (Middlesex University), John Klier (University College London) and Adrian Rice (Middlesex University). The second meeting, on Saturday 15 March 1997, will be held at New College, Oxford, marking Sylvester's association with that University as Savilian Professor of Geometry between 1883 and 1897. For further details. please contact: John Fauvel, Faculty of Mathematics, The Open University, Milton Keynes MK7 6AA; tel: 01908-652325: e-mail: j.g.fauvel@open.ac.uk.

NORTH-WEST DYNAMICS DAY

A one day meeting will be held on 16 December at the University of Liverpool. This is the third of a series of collaborative meetings between the mathematics departments of the University of Liverpool, Manchester University and UMIST, supported by an LMS Scheme 3 grant. Talks will be given by A.M. Davie (Edinburgh) "Coalescence of invariant curves near strongly resonant bifurcation", R.S. MacKay (Cambridge) "Consequences of contractible geodesics" and R. Perez-Marco (Paris-Sud) "The hedgehog theory". For further information contact: Dr R. Nair. Mathematical Sciences, University of Liverpool, Liverpool L69 3BX; tel: 0151-794-4057; e-mail: nair@liv.ac.uk.

JOINT INTERNATIONAL MEETING IN SOUTH AFRICA

The London Mathematical Society is co-sponsoring, together with the American Mathematical Society and the South African Mathematical Society, a meeting at the University of Pretoria, South Africa, from 26-28 June 1997. The Society has a representative on the organizing committee, and is also contributing funds to help Southern African participants to attend.

Invited addresses will be given by: Hyman Bass, Percy Deift, George Ellis, David Epstein, Wayne Goddard, Doron Lubinsky, Robert Mackay and Peter Sarnak, and there will be special sessions on the following topics:

- 1. Geometry, Topology and Physics (Organizers: S. Bradlow, N.J. Hitchin, G. Ellis, J. Rodrigues)
- 2. Dynamical Systems and Ergodic Theory (Organizers: H. Keynes, M. Sears)
- Secondary and Postsecondary Curriculum Reform (Organizers: H. Keynes, D. Hughes-Hallet, J. Engelbrecht)
- 4. Fluid Dynamics (Organizers: S. Friedlander, A. Gilbert, D. Mason)
- 5. Number Theory (Organizers: P. Sarnak, J. Knopfmacher)
- 6. Algebraic K-Theory (Organizers: E. Friedlander, R. Kuku)
- 7. Invariant Subspaces and Collections of Operators (Organizers: P. Rosenthal, G. West)

Further details will appear in the Notices of the American Mathematical Society.

HARMONIC MORPHISMS, HARMONIC MAPS AND RELATED TOPICS First Announcement

The first international conference primarily devoted to harmonic morphisms will be held at the Université de Bretagne Occidentale, Brest, France from 7 to 11 July 1997. The study of harmonic morphisms between Riemannian manifolds first began in earnest with the pioneering work of Fuglede and Ishihara in 1979 and independently by the probabilists Bernard, Cambell and Davie. Since that time the bibliography of harmonic morphisms (see: http://www.maths.lth.se/matematiklu/personal/sigma/harmonic/bibliography.html) has grown to more than 80 publications and the prominence of the subject continues to increase, providing rich interactions between harmonic maps, minimal surface theory, low dimensional probability theory topology, and theoretical physics.

It now seems appropriate to bring together people with an interest in harmonic morphisms and neighbouring subjects to discuss the present state of play and future perspectives. If you wish to attend, please contact: P. Baird, Département de Mathématiques, Université de Bretagne Occidentale, BP 809, F- 29285 Brest, France; fax: (+33) 2-98.01.67.90; e-mail: Paul.Baird@univbrest.fr; tel: (+33) 2-98.01.67.20. It would be helpful if you could indicate whether you would like to be considered for financial assistance with travel or subsistence expenses. Some financial help may be available.

ANNUAL MILNER LECTURE

Professor Robin Milner kindly donated money to support an annual lecture in the Department of Computer Science, University of Edinburgh, to be given by a distinguished speaker whose work connects theory and practice. The 1996/97 lecture, entitled "Cognitive Computation", will be given by Professor Leslie G. Valiant of Harvard University at 17:15 on Thursday 16th January in Lecture Theatre 5 of the Appleton Tower, Crichton Street (near George Square) Edinburgh University. Further information (including an abstract) may be found via the following URL: http://www.dcs.ed.ac.uk/events/.

THE UNIVERSITY OF THE WEST INDIES Mona, Jamaica

PROFESSOR IN PURE MATHEMATICS

Department of Mathematics and Computer Science

Applications are invited for a Professor in Pure Mathematics. The successful candidate is expected to contribute to undergraduate and postgraduate teaching, research, and to the administration of the Department.

Candidates should have wide research experience and interests, evidence of excellent teaching abilities, the capability to lead a research group, wide contacts in the international research community, and the ability to work collaboratively. The Department's research in Mathematics is currently concentrated on Algebra, Global Analysis and Number Theory. Preference will be given to candidates specializing in these areas, but applications from persons active in other areas in Mathematics are encouraged. The successful candidate will be expected to take up duties by August 1997. Please send detailed applications (three copies) as soon as possible to: the Assistant Registrar (Centre), Office of Administration, The University of the West Indies, Mona, Kingston 7, Jamaica (tel. [809] 977 2407; fax [809] 977 1422) from whom application forms and further particulars of the post, including salary, are available. Further particulars of the post are also available from Appointments (45332), Association of Commonwealth Universities, 36 Gordon Square, London WC1H 0PF (tel. 0171 387 8572 Ext. 206; fax 0171 813 3055; email appts@acu.ac.uk), to whom candidates in the UK should also send one copy of their application. Closing date for the receipt of applications is 15 February 1997.

COMBUSTION RESEARCH PROGRAMME CALL FOR PROPOSALS

The EPSRC Combustion Research Programme is led jointly by the Mechanical and Process Engineering Groups, and involves other areas including the Clean Technology Unit. The Programme aims to stimulate high quality engineering and scientific research at UK higher education institutions to address fundamental and generic combustion issues, leading to greater EFFICIENCY, lower EMISSIONS and greater CONTROL of combustion.

For this, the third call from the Programme, FULL proposals are invited from the academic community focused on the FUNDAMENTAL aspects of combustion, including fire and explosions, that relate to practical applications. Applicants who may wish to submit proposals which do not fully address this call may apply through the responsive mode scheme. Similarly, following the closing date there will be an initial sift of the applications received: those thought not fully to address the thrust of the call will be processed in responsive mode.

Applications should be received in Swindon Office by 14 March 1997. Only full applications, including all relevant documentation in original form, received by 6.00pm on Friday 14 March 1997 will be accepted. Applications received after this date will be returned.

For full guidance notes on this call for proposals please contact: Hugh Thurbon, Combustion Research Programme Manager, EPSRC, Polaris House, North Star Avenue, Swindon, Wiltshire SN2 1ET. Tel: 01793 444358; Fax: 01793 444187; Email: hugh.thurbon@epsrc.ac.uk - or see the EPSRC web site: http://www.epsrc.ac.uk.progs/area/mech-eng/mecheng-cont.htm For technical enquiries please contact: Dr Mike Davies, Programme Co-ordinator,

Engineering and Physical Sciences

Research Council

Tel/Fax: 01729 825 550.

1996 SURVEY OF MATHEMATICS DEPARTMENTS

Although about half of all UK Universities responded to this year's Survey, LMS Council has agreed that the Funding Committee should try to increase this proportion. The Committee will produce a simplified and shortened version and circulate it in the New Year when figures should be readily available.

The main features obtained from the returns received for the years 1995 and 1996 are listed below. The figures for old and new Universities were analysed separately, but definite patterns were difficult to find from this division.

1. 29 out of the 38 'old' Universities that responded to the relevant question and 6 out of 23 'new' have introduced or intend to introduce M.Math courses. Responses indicate that between 1/4 and 1/3 of Honours Mathematics students have registered for this degree.

2. There was a suggestion of an absolute increase in the total amount of service teaching but this could merely be an effect on the responses caused by increased modularisation of courses and more devolved budgeting.

3. The number of PhD students had dropped from 3rd year (i.e. 1993 intake) to 2nd year and then remained fairly constant.

4. There were indications of a significant drift in numbers away from Single Honours Mathematics courses towards a range of Combined Honours degrees involving Mathematics; there also seemed to be an increasing dropout rate (probably to the 'other' subject) from these Combined degrees.

5. There had been a 10% drop in staffing in Pure Mathematics, a 5% drop in permanent staff in Applied, compensated by an increase in temporary staff and a slight increase in Statistics staff.

6. There had been a significant drop in the

number of support staff, particularly in technical staff.

In response to the request in the 1996 Survey for general comments, the most common replies referred to problems related to increased class sizes, loss of service teaching and declining technical skills. No problems were reported other than those that have been of concern in previous years.

Heads of Departments will be circulated with more detailed information which will also be included in the LMS www pages. If anyone would like to know more about the results of the survey, please contact E.G. Rees, Chairman, LMS Funding Committee (tel: 0131 650 5087; e-mail: elmer@maths.ed.ac.uk).

INSTRUCTIONAL MEETING ON STOCHASTIC PARTIAL DIFFERENTIAL EQUATIONS Edinburgh, 1-11 April 1997

Scientific Committee: N. Krylov (Minnesota), E. Pardoux (Marseille), J. Walsh (UBC), A. Etheridge (local organiser, QMW).

Topics This intensive instructional conference will provide a comprehensive introduction to stochastic partial differential equations and measure-valued processes. The following topics will be covered:

- General Theory: Variational approach
- General Theory: Semigroup approach
- Introduction to non-linear filtering
- Introduction to superprocesses and related processes
- Applications to pde
- Dirichlet Forms
- Interacting particle systems and spde
- Path properties of parabolic equations
- Numerical methods
- Applications

Lecturers G.D. Prato (SNS Pisa), D. Dawson (Carleton), S. Evans (UC Berkeley), J. Gaines (Edinburgh), I. Gyongy (Edinburgh), J.F. Le Gall (Paris VI), N. Krylov (Minnesota), C. Mueller (Rochester), B. Oksendal (Oslo), E. Pardoux (Marseille), E. Perkins (UBC), M. Rockner (Bielefeld), B. Rozovskii (USC), J. Zabczyk (Polish Acad Sci)

Application and Funding Funding is available from a European Commission TMR grant to enable young researchers who are nationals of member states or associated states of the EU to attend this meeting. To be considered for this application forms should be returned by 15 December 1996.

Further information and application forms: http://www.maths.ed.ac.uk/ conferences or e-mail:icms@maths.ed. ac.uk

ROYAL SOCIETY SENIOR RESEARCH FELLOWSHIPS

The Royal Society invites applications from scientists in any subject including mathematics and engineering, for appointments from 1 October 1997 to seven Royal Society Leverhulme Trust Senior Research Fellowships and to one Royal Society Amersham International Senior Research Fellowship. The fellowships have been established through the generosity of the Leverhulme Trust and Amersham International plc to provide opportunities for scientists in mid-career to be relieved of all teaching and administrative duties for a period between one academic term and one year to do full-time research. A special requirement for the Amersham International Fellowship is that the successful candidate must use the fellowship to develop or enhance links with industry, thereby generating useful and hopefully longlasting industrial- academic interaction.

Applicants must be aged between 35 and 55 and hold a substantive post in a British university. Employees of Research Councils, or those in Governmental or other research institutions, are not eligible. The fellowship will normally be held at the applicant's own institution but may be held at any higher educational or research institution, or industrial research organization in the UK, approved by the Royal Society.

The fellow's employing institution will

be reimbursed for the full salary costs of a younger academic (up to age 28 on the academic and academic-related staff (Lecturer A and B) salary scale) employed to take over the fellow's teaching and administrative duties for the period of the fellowship. The fellow may, however, continue with the supervision of postgraduate or postdoctoral research students. Fellows may apply for limited research expenses to cover the costs of consumables, etc.; grants cannot be made for equipment.

Application form and details are available from the Research Appointments Department, The Royal Society, 6 Carlton House Terrace, London SW1Y 5AG (fax: 0171-930 2170). Closing date 13 December 1996.

SPECIAL MEETING MARKING THE RETIREMENT OF BILL MORTON

This is a special meeting to honour Bill Morton in the year of his retirement from the chair of Numerical Analysis at Oxford. Four speakers, Professors Morawetz, Parlett, and Roe as well as Bill himself will give major talks while the rest of the presentations will be given by some of Bill's former students and colleagues. The topics will naturally be determined by Bill's interests over the years in numerical analysis and CFD as well as, no doubt, anecdotal evidence of his influence on the life of the communities and the people that he has worked with.

The meeting will take place in the Computing Laboratory and will begin mid-morning on Thursday 17th April and finish during the late afternoon on Friday 18th April. Accommodation for Thursday night will be available at St John's College. There will also be a Special Dinner in St John's College on Thursday evening. If you require any further information please contact: Bette Byrne, Oxford University Computing Laboratory, Wolfson Building, Parks Road, Oxford OX1 3QD; tel: 01865-273883; fax: 01865-273839; e-mail: bette@comlab.ox.ac.uk.

1997 BRITISH APPLIED MATHEMATICS COLLOQUIUM

The colloquium, which also is the 39th Theoretical Mechanics British Colloquium, will take place in Edinburgh from the afternoon of Tuesday 1 April until lunchtime on Friday 4 April. The five invited lecturers are: E.J. Hinch (Cambridge), K. Hütter (Darmstadt), J.B. McLeod (Pittsburgh), A.C. Newell (Warwick) and M. Van Dyke (Stanford) who will deliver the Keith Stewartson Lecture. Besides the Memorial contributed lectures, which will run in five parallel sessions, minisymposia will take place within the Colloquium on Nonlinear Optics, the Mathematics of Microelectronics and on Capillary Effects in Fluid Mechanics. Ancillary meetings are planned, before and after the on asymptotic Colloquium, and numerical methods in wave propagation on nonlinear guided wave optics. The Colloquium and its minisymposia are supported financially by the London Mathematical Society and the Society for Industrial and Applied Mathematics. Further details, including registration and instruct ions for forms will submission of abstracts. circulated in Decembe e-mail: bamc@maths.ed.ac.uk; ber: http://www.maths.ed.ac.uk/ conferences.

INTERNATIONAL WORKSHOP ON PATTERN MATCHING, TEXT PROCESSING AND COMPRESSION

A current trend in computing is the interconnection of computers into a global network. The utility and efficiency of such a network is critically dependent on the techniques available for fast search, compression, image searches and text processing over huge networked databases.

Some of the topics to be addressed in the workshop to be held at the University of Warwick, 15-20 December 1996, are: compression and coding in information retrieval systems, string-matching with errors, pattern-matching in digitised images, document analysis, information retrieval from hypertext, parallel algorithms for string matching, combinatorial problems in computational biology. The participants will include people with interests in complexity and algorithm analysis as well as those with practical experience in large scale data processing.

This meeting is funded in part by the British Council and by EPSRC/LMS under the MathFit program. Support for research students is available. For further information, please contact Professor Mike Paterson, (e-mail: msp@dcs.warwick.ac.uk) at the Department of Computer Science, University of Warwick, Coventry, CV3 4AL.

TENTH SCHRÖDINGER LECTURE

Professor Sir Michael Atiyah, FRS, will give the 1997 Schrödinger Lecture on "The Conscience of Science", on Tuesday 18 March at 5.30 pm in the Great Hall of Imperial College, London SW7. For tickets contact Miss Elizabeth Boden, The Registry, Imperial College, London SW7 2AZ, tel: 0171 589 5111.

New Titles in Mathematics From Gordon and Breach

Bulletin of the Hong Kong Mathematical Society

Editor-in-Chief: C.C. Yang, Department of Mathematics, Hong Kong University of Science and Technology

The Bulletin of The Hong Kong Mathematical Society reflects the activities and progress of mathematical research in Hong Kong. The Bulletin provides a forum for international exchange of research results, and research papers from outside Hong Kong are also welcome. The content of the Bulletin may include research papers, survey articles (by invitation), research announcements, expository papers on mathematical education, and summaries of Doctoral theses performed in Hong Kong. The Bulletin may occasionally publish proceedings of conferences and workshops co-organized by the Hong Kong Mathematical Society.

ISSN: 1026-2636 • 2 issues per volume • Contact the Publisher for pricing information

The Exponential Distribution: Theory, Methods and Applications

Edited by N. Balakrishnan, Department of Mathematics and Statistics, McMaster University, Ontario, Canada and Asit P. Basu, Department of Statistics, University of Missouri at Columbia, USA

Seeks to provide a systematic and comprehensive synthesis of the diverse literature on the theory and applications of the exponential distribution. In addition to the conventional areas, the volume also includes discussions on exponential regression, models and applications of mixtures which includes the especially relevant bootstrapping method, and applications to survival analysis.

1996 • 664pp Cloth • ISBN 2-88449-192-9 • US\$119 / £72 / ECU92

Continuous-Time Modeling and Simulation Using Turbo Pascal and CTMS/TP

Computation in Education: Mathematics, Science, and Engineering, Volume 2

Lucio Tavernini, Division of Mathematics, Computer Science, and Statistics, University of Texas at San Antonio, USA

"...designed to be used as a textbook, with excellent examples, and many well-chosen problems."

- Vincent Rideout University of Wisconsin-Madison, USA

"The great strengths of the text are: treatment of special topics such as delays, discontinuities;...the close integration between the text and the software;...the quality of the software."

> – Colin W. Cryer Institut für Numerische und Instrumentelle Mathematik, Universität Münster, Germany

Provides an introduction to a very broad class of mathematical model-building techniques and illustrates how these models can be simulated using CTMS (Continuous-Time Model .Simulation) embedded into an existing procedural programming language, Turbo Pascal.

While several books on simulation exist for engineers, this is the first book of its kind suitable for use by mathematicians. Covers differential equations with time (transport) delays in detail as well as problems with hysteresis. Uses the differential automaton model of hysteresis, which is an approach quite different from the well-known classical approach.

1996 • 504pp Cloth • ISBN 2-88449-223-2 • US\$79 / £48 / ECU61 Paperback • ISBN 2-88449-224-0 • US\$46 / £27 / ECU35

To order, or for further information, please contact the relevant address below: North/South America: Books: University of Toronto Press, 250 Sonwil Drive, Buffalo, NY 14225, USA • Tel: +1 (800) 565-9523 Fax: +1 (800) 221-9985 • E-mail:



Gordon and Breach Amember of the Cordon and Breach Publishing Group

17



MATHEMATICIANS VISITING THE UK IN 1996/97

ABERDEEN UNIVERSITY

Professor D. Alexeevski (Moscow) Differential geometry, Late autumn '96

Dr J. Carot (Palma, Mallorca) Relativity theory, Spring '97

Professor Estelita Vaz (Braga, Portugal) Relativity theory, 1997

Dr P. Beuken (Leuven, Belgium) Differential geometry, Late autumn '96

Professor J. Bicak (Prague) Relativity theory, Summer '97

BATH UNIVERSITY

Professor E.N. Dancer (Sydney University, Australia) Differential equations and nonlinear functional analysis, Jan - Feb '97 Dr I. Nieto (CIMAT, Guanajuaato, Mexico) Algebraic geometry, 30 Sep - 30 Nov '96

Dr R. Svirshchevskii (Institute of Mathematical Modeling, Russian Academy of Sciences, Moscow) Group theory with applications to nonlinear evolution equations of mathematical physics, Jan '97

BIRMINGHAM UNIVERSITY

Professor Y. Tomita (Hokkaido University of Education) Applied mathematics, Oct '96 - Aug '97

BRADFORD UNIVERSITY

Dr G.P. Nikolov (University of Sofia, Bulgaria) Numerical integration, Mar '97 -Feb '98

BRISTOL UNIVERSITY

Dr T.O. Carvalho (Campinas State University, Brazil) Chaotic dynamics, May '96 - May '97

Professor Dr K. Uchiyama (Sophia University) Asymptotic analysis and differential equations, Oct '96 - Feb '97

Dr D.J. Murdoch (Queens University, Kingston, Canada) Applied statistics, Aug '96 - Jun '97

BUCKINGHAM UNIVERSITY

Professor Ying Zhao (Shaxi Teachers University, China) Computer algebra and group classification, Jul '96 - Jun '97

COVENTRY UNIVERSITY

Mr T. Yamada (NTT Communication

Science Labs, Kyoto, Japan) Scheduling algorithms, heuristic search, Sep '96 - Sep '97

DURHAM UNIVERSITY

Dr M. Hellmund (University of Leipzig) Theoretical physics, Jan '96 - Jan '97

Professor J. Lukierski (University of Wroclaw) Theoretical physics, Oct '96 -Jan '97

EAST ANGLIA UNIVERSITY

Dr A.L. Shuvalov (Institute of Crystallography, Moscow) Wave propagation in crystals; viscoelasticity and thermoelasticity, 16 Dec '96 - 23 Jan '97

EDINBURGH UNIVERSITY

Ms N. Alguacil (University of Malaga) Decomposition algorithms, 1 Oct - 1 Dec '96

Professor V. Buchstaber (Moscow State University) Algebraic topology, intergrable systems, non-linear optics, 17 Sep -31 Dec '96

Dr W. Krandick (University of Linz) Verified route finding, 1 Sep - 1 Dec '96

Dr G.B. Mehta (University of Queensland) Financial mathematics, 9 Sep - 31 Dec '96

Dr S. Prassidis (Vanderbilt University) Topology of manifolds, stratified sets and group actions, 1 Aug - 31 Dec '96

Dr T. Pruschke (University of Leipzig) Commutative algebra, intersection theory, 1 Aug '95 - 31 Jul '97

Dr C. Rovira-Escofet (University of Barcelona) Stochastic analysis, Malliavin calculus, stochastic equations, 1 Oct - 31 Nov '96

Dr E. Tsoi (Physical Technical Institute, Uzbekistan) Soliton dynamics, 15 Mar '97 - 14 Mar '98

Dr V. Varela (Universidad Central de Venezuela) Gravitational and Yang-Mills equations, Oct '95 - Oct '97

Dr E. Vesperini (Accademia Nazionale dei Lincei, Rome) Stellar dynamics, 1 Apr '96 -15 Jan '97

Dr A. Worthy (University of Wollongong)

Nonlinear waves, 27 Dec '96 - 31 Jan '97

EXETER UNIVERSITY

Professor Z. Emirsajlow (Technical University of Szczecin) Control theory, Oct '96 - Nov '97

Dr K.M. Kuzanyan (Kurchatov Institute, Russian Research Centre) Magnetohydrodynamics, Oct '96 - Sep '97

Dr S. Wang (Zheijang University of Technology) Analysis, Jan '96 - Jan '97

GLAMORGAN UNIVERSITY

Dr V. Trejynyk (Ukrainian State University of Food Technology) Symmetry in partial differential equations, 4 Sep - 20 Dec '96

GLASGOW UNIVERSITY Mathematics

Professor T. Albu (University of Bucharest) Algebra, number theory, Oct '96 - Nov '97

Dr N.V. Dung (Mathematical Institute, Hanoi) Algebra, 1 Oct '96 - 31 May '97

Dr D. Hachenberger (University of Augsburg) Finite fields, combinatorics and finite geometries, Mar - Sep '97

GLASGOW UNIVERSITY Statistics

Dr B.M. Brown (University of Tasmania) Statistics, Mar - May '97

Professor K. Tanaka (Muroran Institute of Technology, Japan) Statistical physics and imaging, Mar '97 - Feb '98

GREENWICH UNIVERSITY

Professor V.S. Gordon (Institute of Engineering Cybernetics, Belarus Academy of Sciences, Minsk) Scheduling theory, combinatorial optimization, 16 Sep - 16 Oct '96

HERIOT-WATT UNIVERSITY

Professor M.S. Agranovich (Moscow State Institute of Electronic Mathematics) Non-self-adjoint elliptic operators, spectral theory of pseudodifferential boundary value problems, Oct '96 - Jan '97

Professor Bong Soo Ko (Cheju National University) Differential equations, Dec '96 - Nov'97

Dr V.Z. Enolskii (Institute of Magnetism, Kiev) Abelian functions on a Riemann surface, finite gap solutions of integrable equations, 1 Dec '96 - 28 Feb '97

Dr V. Pacakova (University of Economics, Bratislava, Slovak Republic) Statistics, probability, actuarial science, 29 Sep - 15 Dec '96

KEELE UNIVERSITY

Dr I.L. Collings (Deakin University, Australia) Ocean dynamics, Jun - Sep '97

KENT UNIVERSITY

Dr E.A. Catchpole (Australian Defence Force Academy, University of New South Wales) Biometry, ecological modelling, Jun - Jul '97

Professor P.R. Greenwood (University of British Columbia, Canada) Probability theory, Jan - Apr '97

Professor X.B. Hu (Academia Sinica, Bejing, China) Solitons, Sep '96 - Aug '97 Dr G.J. Reid (Simon Fraser University)

Computer algebra, Sep - Oct '96

KING'S COLLEGE LONDON

Dr F. Barone (University of Naples) Geometrical mechanics, Oct '96 - Jul '97

Professor J.N. Goldberg (Syracuse University, N.Y) General relativity, Nov '96

Professor R.H. White (University of San Diego) Neural networks, Jan - Jul '97

LANCASTER UNIVERSITY

Professor A. Hopenwasser (University of Alabama) Nonselfadjoint operator algebras, 15 May - 15 Aug '97

Dr Yu. V. Selivanov (Moscow State Aviation Technology University) Functional analysis, cohomology of algebras, 1 Sept '96 - 30 Jun '97

LEEDS UNIVERSITY Applied Mathematics

Professor P.J. Browne (University of Saskatoon, Canada) Analysis, differential equations, Oct '96 - Oct '97

LEEDS UNIVERSITY Statistics

Professor D.E. Tyler (Department of Statistics, Rutgers University, USA) Robust and multivariate analysis, Sep '96 - 31 Jan '97

Professor M. Yamaguchi (Department of Mathematics, Fuki University, Japan) Multivariate analysis, 8 Nov '96 - 6 Jan '97

LEICESTER UNIVERSITY

Professor A. Kushpel (Institute of Mathematics, Kiev) Approximation theory, Jul '96 - Jul '97

LONDON SCHOOL OF ECONOMICS

Professor A. Beck (University of Wisconsin) Search games, Jan - Aug '97

LOUGHBOROUGH UNIVERSITY

Dr O.A. Chalykh (Moscow State University) Integrable systems, Feb - Mar '97

MANCHESTER UNIVERSITY

Professor S. Chernyshenko (Moscow University) Applied mathematics, 23 Sep - 21 Dec '96

Professor V.B. Kormanovskii (Moscow University of Electronics and Mathematics) Partial integro-differential equations and problems of stability, Nov '96

Dr A. Mamagani (University of Urmia, Iran) Pure mathematics, Oct '96 - Jun '97

Dr P. Rhodes-Robinson (Victoria University of Wellington, New Zealand) Applied mathematics, Dec '96 - Jan '97

OXFORD UNIVERSITY Mathematics

Professor J. Alonso (Stockholm University) Group theory, topology, Oct '96

Dr O. Bandmann (Stockholm University) Jan - Dec '97

Dr D. Bouwmeester (Huygens Lab, Leiden University) Maxwell theory, Jan - Dec '96 Professor J. Coulon (University of Michigan) Mathematical finance, Oct '96 - Sep '97

Dr J. Feldvoss (Hamburg, Germany) January & Summer '97

Dr I. Ghergut (Rom. Acad. Sci., Bucharest) Sturmian methods, Apr - May '97

Dr R. Haber (Northwestern University) Mathematical finance, Jan - Dec '97

Dr R. Halburd (University of Adelaide) Mathematical physics, Trinity Term 1997

Dr M. Haviar (M. Bel Univ., Slovakia) Functional analysis, May - Jun '97

Dr T. Holm (Otto-van Guericke Universitat) Hocshchild cohomology, Apr '96 -Mar '97

Professor S. Homer (Boston University) Computing logic, Sep - Dec '97 Dr M. Kikuchi (Kobe University, Japan) Logic, models of arithmetic, May - Jun '97 Professor K. Kudaibergenov (Kazakhstan) Model theory, 1 Jan - Dec 31 '96

Dr P. Kulesa (Beckman Institute, Caltech) Mathematical biology and ecology, Jan -Jul '97

Dr S. Kuehnlein (Dusseldorf, Germany) Number theory, Oct '96 - Sep '97

Dr R. Maszczyk (Warsaw, Poland) Mathematical physics, Oct '96 - Jun '97

Dr A. McCluskey (Queen's University, Belfast) General topology, Sept - Oct '96

Dr D.I. McIntyre (Auckland University, New Zealand) General topology, Michaelmas term '96

Dr Y. Oshime (Doshisa University, Japan) Mathematical biology and ecology, Mar '95 - Mar '97

Dr M. Robbiani (Zurich, Switzerland) Number theory, Oct '96 - Sep '97

Professor J.W. Schutz (La Trobe University, Australia) Mathematical physics, Sep - Dec '97

Mr J. Tabor (Jagiellonian University, Poland) General topology, Michaelmas term '97

OXFORD UNIVERSITY Statistics

Professor A. Azzalini (University of Padua) Theoretical statistics, 10 - 21 Nov '96

Dr P. Kabaila (La Trobe University) The bootstrap and its variants, statistical model selection, Feb '97 - Jan '98

Dr M. Moehle (Johannes-Gutenberg Univ. Mainz) Mathematical population genetics, Sep '96 - Feb '97

Dr W.N. Venables (University of Adelaide) Statistical modelling; statistical computing, Oct '96 - Jan '97

PORTSMOUTH UNIVERSITY

Dr J. Trigner (Dept. de Fisica, Universitat Autonoma de Barcelona, Spain) Cosmology and relativity, 7 Oct - 15 Dec '96

PLYMOUTH UNIVERSITY

Professor S. Chirita (Technical University- IASI Romania) Mechanics of solids, 31 Oct - 21 Dec '96

Dr J. Schlienz (University of Stuttgart) Quantum computation, Dec '96

QUEEN MARY & WESTFIELD COLLEGE

Dr G. Keady (University of Western Australia) Pure mathematics, 30 Jul - 31 Dec '97

Dr M. Mars (University of Barcelona) Applied mathematics, 1 Jan - 31 Dec '97

QUEENS UNIVERSITY BELFAST

Dr A. Buchleitner (Max Planck Institute für Quantenoptik, Garching, Germany) Quantum optics, 1 Sep - 31 Dec '97

Dr R. Jiangno (Chinese Academy of Sciences, China) Theoretical physics, Nov '96 - Apr '97

Dr E. Stade (University of Colorado, USA) Discrete transforms and applications, Jan - Jun '97

Dr S. Vivirito (University of Palermo, Italy) Theoretical physics, 14 Jun '96 - 14 Feb '97

READING UNIVERSITY

Dr J. Hench (Academy of Sciences of Czechoslovakian Republic) Numerical linear algebra, systems and control, 1 Oct '96 - 28 Feb '97

Dr D.R. Stock (University of Alabama, Birmingham, USA), 1 Oct - 31 Dec '96

ROYAL HOLLOWAY UNIVERSITY

Professor Y. Desmedt (University of Wisconsin Milwaukee, USA) Computer security, cryptography, Jun - Jul '97

SALFORD UNIVERSITY

Dr E. Kolev (Sofia, Bulgaria) Coding theory, 1 Sep '96 - 31 Aug '97

SHEFFIELD UNIVERSITY

Mr J. Schou (Technical University, Denmark) Radar, 19 Sep '96 - 1 Feb '97

Dr Y.Z. Su (Wuhan University, China) Ionospheric research, 1 Aug '96 - 30 Jul '97

SOUTHAMPTON UNIVERSITY

Professor A. Dean (Ohio State University) Statistics, Sep '96 - Aug '97

Dr A. Hamel (University of Canterbury, New Zealand) Combinatorics, May '96 -May '98

Dr D. Home (Bose Institute, Calcutta) Foundations of quantum theory, Jan -Aug '97

Dr S. Karazhanov (Tashkent, Uzbekistan)

Statistics, Feb '97 - Jan '98

Professor K. Kikuta (Toyama University, Japan) Apr - Oct '97

Professor J. Nunemacher (Ohio Wesleyan University) Pure mathematics, Jan - Aug '97

Dr K. Russell (University of Wollongong) Design of experiments, Apr - Jun '97

ST ANDREWS UNIVERSITY

Mr T. Brenn (University of Tromso, Norway) Genetics, Sep '96 - Jun '97

Dr E. Ytterstad (University of Tromso, Norway) Statistical ecology, Sep '96 - Jun '97

STAFFORDSHIRE UNIVERSITY

Professor M. Cohen (Hebrew University at Jerusalem) Applied quantum mechanics, Jan '97

Professor S.G. Davison (University of Waterloo, Canada) Applied quantum mechanics, Sep '97

SUSSEX UNIVERSITY

Professor V. Mikhailets (Kiev, Ukraine) Spectral theory of partial differential operators, 9 Oct - 9 Dec '96

Dr M.V. Novitskii (Ukraine) Spectral and inverse problems for partial and ordinary differential operators, Apr - May '97

UNIVERSITY COLLEGE LONDON

Professor J.M Russell (Florida Institute of Technology, USA) Aerodynamics, applied mathematics, Sept - Dec '96

Dr C. Zong (Beijing University, China) Pure mathematics, convex geometry, Jan '96 - Jan '97

UNIVERSITY OF WALES, BANGOR

Dr Z. Arvasi (Osman Gasi University, Eskisehir, Turkey) Simplicial homotopical algebra, 6 Sep - 6 Dec '96

Professor L.A. Lambe (Rutgers, USA) Algebraic topology, symbolic computation, 19 Oct - 19 Nov '96

YORK UNIVERSITY

Professor A. Weitsman (Purdue University, USA) Complex analysis, Jan - May '97

Professor S. Bulman-Fleming (Wilfrid Laurier University, Canada) Algebra, 16 Sep - 15 Nov '96

SWISS FEDERAL INSTITUTE OF TECHNOLOGY LAUSANNE (EPFL)

invite applications for two professor positions and one "Maitre d'Enseignetment et de Recherche" (MER) position for its Department of Mathematics:

PROFESSOR OF NUMERICAL ANALYSIS

The candidate should have developed an important research activity and have a thorough knowledge of numerical analysis.

PROFESSOR OF ANALYSIS

The candidate should carry out excellent interdisciplinary research in an area of analysis and its applications, such as the calculus of variations, the theory of differential equations or nonlinear analysis.

MER for OPERATIONS RESEARCH

The successful candidate will develop research and teaching at a high level in all aspects of Operation Research. An engineering approach and a liking for applications is needed.

For the three positions the teaching will include introductory and advanced courses for students of mathematics and for engineering students. Willingness and talent to teach at all university levels is a requirement. The candidate is expected to develop an important research programme in collaboration with professors of the Department of Mathematics as well as with professors from some of the eleven other Departments of the EPFL. Applicants should have shown their ability to carry out and to direct high level multidisciplinary research projects.

Start date: as mutually convenient.

Applications from women are particularly welcome.

For further information, please contact by writing: Présidence de l'Ecole polytechnique fédérale de Lausanne, CE-Ecublens, CH 1015 Laussane, Suisse.



A EINSTEIN Honorary Member 1924 DIARY

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

DECEMBER 1996

6 Edinburgh Mathematical Society Meeting, Napier (241)

9-13 Discrete Mathematics and Theoretical Computer Science Conference, Auckland, New Zealand (238)

16 British Women Mathematicians' Day, Royal Statistical Society, London (243)

JANUARY 1997

2-5 Mathematics Education and Applications Conference, Nicosia, Cyprus (242)

6-11 Representation Theory of Algebraic Groups and Related Finite Groups Instructional Conference, Newton Institute, Cambridge (243)

17 Edinburgh Mathematical Society Meeting, Edinburgh (241)

FEBRUARY 1997

14 Edinburgh Mathematical Society Meeting, Edinburgh (241)

21-22 Group Theory, Two-day London Mathematical Society Meeting, Oxford

MARCH 1997

14 Edinburgh Mathematical Society Meeting, Stirling (241)

18-21 Nonlinear Dynamics and Spectra of Molecules Workshop, Warwick University (243)

APRIL 1997

7-11 Models and Algorithms for Planning and Scheduling Problems Workshop, Queen's College, Cambridge (242)

8-11 Fractals in the Natural and Applied Sciences, Denver, Colorado, USA (233)

11-14 Low-Dimensional Topology Conference, Sussex University (242)

14-17 British Mathematical Colloquium, Royal

Holloway, Surrey (242)

14-18 LMS Invited Lectures, Birmingham University, Professor J.L. Alperin (238)

MAY 1997

2 Edinburgh Mathematical Society Meeting, Aberdeen (241)

23-24 Two-day London Mathematical Society Meeting, Liverpool

JUNE 1997

6 Edinburgh Mathematical Society Meeting, St Andrews (241)

20 London Mathematical Society Meeting, Linnean Society, London

30-1 July Boundary Integral Methods Conference, Leeds University (242)

JULY 1997

7-11 British Combinatorial Conference, Queen Mary & Westfield College, London (230)

AUGUST 1997

24-29 15th IMACS World Congress 1997 on Scientific Computation, Modelling and Applied Mathematics, Berlin, Germany (243)

OCTOBER 1997

17-18 Two-Day London Mathematical Society Meeting, London

NOVEMBER 1997

21 London Mathematical Society, Annual General Meeting, London

APRIL 1998

6-9 British Mathematical Colloquium, Manchester University

AUGUST 1998

18-28 International Congress of Mathematicians, Berlin, Germany (238) (242)

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, Burlington House, Piccadilly, London WIV ONL Tel: 0171-437 5377, fax: 0171-439 4629, e-mail: Ims@Ims.ac.uk. World Wide Web: http://www.gmw.ac.uk/* Ims/Ims.html

The London Mathematical Society is registered with the Charity Commissioners.

Printed by Armstrong Press Ltd, Southampton (01703) 333132