

THE LONDON MATHEMATICAL SOCIETY NEWSLETTER

No. 192

March 1992

FORTHCOMING SOCIETY MEETINGS

Friday 20 March 1992, Burlington House
R.A. Bailey, L.C.G. Rogers

Friday 15 May 1992, Burlington House
A.J. Scholl, M.J. Taylor

Friday 19 June 1992, Burlington House
W.B.R. Lickorish, V.G. Turaev

Monday 29 June - Wednesday 1 July 1992
Joint meeting of AMS and LMS, Cambridge

Friday 16 October 1992, Burlington House
Friday 20 November 1992, Burlington House

GEORGE FREDERICK JAMES TEMPLE

Professor George F.J. Temple, FRS who was elected a member of the London Mathematical Society on 13 November 1929, died on 30 January 1992 at the age of 90. He served on

the London Mathematical Society Council from 1932-37 and 1944-54, was Librarian from 1946-51, Vice-President 1933-35 and 1953-54 and President 1951-53.

BRIAN KUTTNER

Professor Brian Kuttner who was elected a member of the London Mathematical Society on 13 November 1930 died on 2 January 1992 at the age of 83. He made many important contribu-

tions to the theory of summability, and to the theory of Fourier series, continuing to publish research of quality into his eighties.

SAFETY CRITICAL SOFTWARE THE EFFECT OF NEW STANDARDS IN ENGINEERING APPLICATIONS

This meeting of a non-technical nature is being jointly organised by the Computer Science Committee of the London Mathematical Society, the Computing and Control Division of the IEE and the British Computer Society. It will be held at the Royal Over-Seas League, Park Place, St James's Street, London SW1 on Wednesday 15th April 1992. The purpose is to disseminate up-to-date information about safety-related standards for software embedded systems; to discuss the relevance and limitations of the role of formalism used in (or advanced by) these standards; and to relate

some experiences from the interface between those who require such systems and those who build them.

The meeting will consist of six lectures given by Professor Bernie Cohen, Mr Robin Bloomfield, Dr Brian Wichmann, Dr Denton Clutterbuck, Mr Terry Beadman and Dr Brian Finnie. Lunch and refreshments are included in the total cost of £70. Members of the LMS, IEE and BCS may register for the reduced fee of £60.00. Contact Ms Shirley Platt on 071 975 5455 for further details and registration form.

LONDON MATHEMATICAL SOCIETY PUBLICATIONS PERSONNEL - 1992

PUBLICATIONS SECRETARY	D.A. Brannan (1986 -).
PUBLICATIONS COMMITTEE	D.A. Brannan (Convenor); I.N. Baker, G. James; W.D. Evans, J. Wiegold; J.D.S. Jones, J.H. Rawnsley; D.A. Rand, P. Holgate; E.C. Lance, C.M. Series.
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STUDENT TEXTS ADVISERS	E. Rees, M. Ronan, P. Diaconis, M. Micallef, S. van Strein.
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RUSSIAN MATHEMATICAL SURVEYS EDITOR	E.J.F. Primrose (1980 - 94); D.L. Johnson (Deputy, 1989 - 94).
TRANSACTIONS OF THE MOSCOW MATHEMATICAL SOCIETY	L.W. Longdon (LMS; 1973 -); joint editor.
U.K. PERIODICALS' BACKLOG	W.D. Evans, J. Wiegold (1987 - 92).
LMS PUBLISHING LTD BOARD OF DIRECTORS	J.F.C. Kingman (Chairman), C.J. Mulvey, J.D.M. Wright (Treasurer), D.A. Brannan (Secretary & Publications Manager).
LMS PUBLISHING LTD ADMINISTRATOR	S.M. Oakes.

D.A. Brannan
Publications Secretary

LONDON MATHEMATICAL SOCIETY

FRIDAY 20 MARCH 1992

L.C.G. ROGERS

(Queen Mary & Westfield College, London)
will speak at 3.30 on

**Quadratic Functionals of Brownian Motion,
Optimal Control and Polymer Physics**

R.A. BAILEY

(Goldsmiths' College, London)
will speak at 5.00 on

Incomplete-block Designs

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

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

UNIVERSITY OF HONG KONG

LECTURESHIPS IN MATHEMATICS

(Ref. RF/TA/Sci/3)

Applications are invited for Lectureships in Mathematics, tenable from 1 September 1992.

Applicants should have an appropriate higher degree, normally a PhD, relevant teaching and research experience, and be able to contribute to postgraduate as well as undergraduate teaching in the Faculty. In particular, applicants should have specialised knowledge in a main area of pure or applied mathematics.

Annual salary (superannuable) is on the scales: HK\$309,120 - 516,480 (11 points: £22,191 - £37,077 sterling equivalent as at 14 January 1992). Starting salary depends on qualifications and experience. Salaries tax is currently 15% of gross income.

Appointments are normally made on permanent, superannuable terms, subject to a period of probation of not less than 33 months. Staff benefits include generous leave provisions, medical benefits and children's education allowance; housing assistance is also provided in most cases at a charge of 7.5% of salary.

Further particulars and application forms may be obtained from Appointments (40275), Association of Commonwealth Universities, 36 Gordon Square, London WC1H 0PF, UK; or from the Secretary, Faculty of Science, University of Hong Kong, Pokfulam Road, Hong Kong (fax 852-8584620). Please quote reference number in all correspondence.

The closing date is: **31 March 1992**

SYMPOSIUM ON ANALYTIC AND GEOMETRIC ASPECTS OF HYPERBOLIC GEOMETRY 1992-93

At the University of Warwick throughout the academic year 1992-93 there will be special emphasis on recent research in the above area. The following particular events are planned. There will also be visitors outside these periods, particularly from April to July 1993.

Instructional Conference, 13th to 19th September 1992. Lectures in the morning and workshops in the afternoon, where participants will talk over the material from the mornings, see how the theory fits various explicit examples and so on. Research level workshop, 15th to 22nd April 1993. It is also hoped to run a symposium in Durham from

4th to 10th July 1993 on the same topic; this is subject to funding from SERC. It is being organised by David Epstein, e-mail dbae@uk.ac.warwick.maths and Caroline Series, e-mail cms@uk.ac.warwick.maths.

Funds are available for support of UK academic staff and graduate students. If you are interested in attending any of these activities, or in visiting at another time, send your name, address and e-mail address to Elaine Shiels, Mathematics Institute, University of Warwick, Coventry CV4 7AL, e-mail es@uk.ac.warwick.maths.

FOURIER ANALYSIS AND PARTIAL DIFFERENTIAL EQUATIONS CONFERENCE

A conference on Fourier Analysis and Partial Differential Equations will be held from 15th to 20th June 1992 at Miraflores de la Sierra, near Madrid, Spain. It will be in the style of the "El Escorial" seminars of 1979, 1983 and 1987. The principal courses of lectures will be given by M. Christ, G.

Weiss, T. Wolff and S. Chanillo. Others will deliver one hour lectures. For further information, contact: The Organising Committee, (1992 Miraflores de la Sierra Conference), Departamento de Matematicas, Universidad Autonoma de Madrid, 28049 Madrid, Spain or Dr A. Carbery, University of Sussex.

HARMONIC MAPS AND INTEGRABLE SYSTEMS

A small workshop on Harmonic Maps and Integrable Systems will be held at the University of Leeds from 11th to 15th May 1992. The main topic of this meeting will be the recent advances in the theory of harmonic maps which use the methods of integrable systems, and the growing interplay between the two subjects. Financial support is very limited and it is hoped that most participants will be able to find their own financial support.

Anyone interested is asked to contact either Allan Fordy, telephone: 0532-335115/335116, e-mail: amt6apf@uk.ac.leeds or John C. Wood, telephone: 0532-335106, pmt6jcw@uk.ac.leeds at the School of Mathematics, University of Leeds, Leeds LS2 9JT, fax 0532-429925. The workshop is receiving partial support from the London Mathematical Society.

SCOTTISH ALGEBRA DAY

The Fifth Scottish Algebra Day will take place on Friday 20th March 1992 at Heriot-Watt University, with support from the London Mathematical Society. Speakers: M. Lawson, G. Niblo, C. Ringel and C. Robson. Further information on request

from the organizers: K.A. Brown, telephone 041-339 8855 ext 6535, e-mail gama33@uk.ac.gla.vme; J. Howie, telephone 031-451 3240, e-mail jim@uk.ac.hw.ma.cara and T.H. Lenegan, telephone 031-650 5078, e-mail tom@uk.ac.ed.maths.

PARTIAL DIFFERENTIAL EQUATIONS AND GROUP THEORY

An advanced five day course on Partial Differential Equations and Group Theory will be held from 6th to 10th April 1992 at Schloss Birlinghoven, Sankt Augustin, near Bonn, Germany. The course is being organised by the European

Research Consortium for Informatics and Mathematics. For further information write to ERCIM, Domaine de Voluceau, BP 105, F-78153 Le Chesnay Cedex, France. Telephone 33-1-39 63 53 78, fax 33-1-39 63 53 30, e-mail ercim@inria.inria.fr.

UNIVERSITY OF NOTTINGHAM

DEPARTMENT OF MATHEMATICS

Positions in Pure and Applied Mathematics

Applications are invited for the following positions, vacant from 1st September 1992.

Lectureship in Pure Mathematics (**reference 1499**);

One-year Teaching Fellowship in Pure Mathematics (**reference 1500**);

Two Lectureships in Applied Mathematics (**reference 1501**).

For positions in Pure Mathematics preference may be given to candidates with research interests in number theory, combinatorics or analysis. For one of the lectureships in Applied Mathematics candidates with research interests in rigorous mathematical physics may be preferred. The closing date for applications is **31st March 1992**.

Further details and application forms may be obtained from the Personnel Officer, University of Nottingham, Nottingham NG7 2RD, telephone (0602) 484848, extension 3355, quoting the above reference numbers. Informal enquiries may be addressed to Professor D.A. Burgess, extension 2802, email dab@maths.nott.ac.uk concerning the Pure Mathematics positions and to Professor R.L. Hudson, extension 2801, email rlh@maths.nott.ac.uk concerning those in Applied Mathematics.

UNIVERSITY OF WALES FELLOWSHIP

Applications are invited for a Fellowship for two years from October 1, 1992, open to graduates of any University, and tenable in the School of Mathematics, University of Wales, Bangor. The Fellowship is primarily for research, and candidates should possess a research degree. Preference is likely to be given to candidates with expertise related to one or more of Algebraic Topology, Category Theory, Theoretical Computer Science.

The stipend will normally be £12,129 (first year) rising to £12,860 (second year) (under review).

The Fellowship is sponsored by the University's Validation Board, and further details and application forms may be obtained from the Secretary, University of Wales Validation Board, 22 Park Place, Cardiff CF1 3DQ, United Kingdom, to whom completed forms should be returned not later than **March 20, 1992**.

FAX: International (+ 44) -222-230820 UK: (0222) 230820

EMAIL for School of Mathematics, Bangor.: mas006@uk.ac.bangor.

STUDIES IN COMPUTER ALGEBRA FOR INDUSTRY

Computer Algebra has relevance in many fields and industries, such as biochemistry, pharmacology, CAD, chemical engineering and aerospace, as the use of the computer enables calculations to be performed which would not otherwise be possible due to their size or complexity.

An ERCIM sponsored conference on Studies in Computer Algebra for Industry (SCAFI) will be held on 30 September and 1 October 1992 at The University of Bath. The conference will be led by James Davenport, Professor of Informa-

tion Technology at Bath, home of Britain's largest computer algebra research group. All the speakers are directly involved with the subject and its applications. Delegates will be able to see and gain "hands-on" experience of various aspects of the technology and to discuss with the experts the relevance of computer algebra to their own industry.

Further information from Michelle Heath, Centre for Continuing Education, University of Bath, Claverton Down, Bath BA2 7AY. Telephone (0225) 826453.

WAVELETS AND THEIR APPLICATIONS NATO ADVANCED STUDY INSTITUTE

A seminar on "Wavelets and their Applications" will be held at the Il Ciocco resort, Tuscany, Italy from 16th to 29th August 1992. The principal speakers are L.A. Auslander, J. Benedetto, B. Claus, R. Coifman, I. Daubechies, P. Flandrin, A. Grossmann, M. Holschneider, A.J.E.M. Janssen, P. Lemaire, Y. Meyer, W. Schempp, R. Tolimieri and Y. Zeevi. Attendance will be limited to about 70 participants,

in addition to the speakers. Limited financial support is available for scientists, including graduate students. Inform the organiser, Dr J. Byrnes, if you are interested as soon as possible and by 30th April at the latest, whose address is Prometheus Inc, Dept ASI, 21 Arnold Avenue, Newport, RI 02840, U.S.A., e-mail: asi@cs.umb.edu.

ASSOCIATION FOR SYMBOLIC LOGIC

The European Summer Meeting of the Association for Symbolic Logic will be organised by the Bolyai Janos Mathematical Society in cooperation with the Symbolic Logic Department of the Eotvos Lorand University from Sunday 9th to Saturday 16th August 1992. The conference will be held in Veszprem, Hungary. The conference will consist of five sections: Set Theory, Algebraic and Categorical Logic, Arithmetic, Computer Science Logic and Philosophi-

cal Logic. The following invited speakers have so far accepted: S. Abramsky, H. Andreka, M. Foreman, D. Gabbay, M. Gitik, Yu. Gurevich, P. Komjath, H. Kotlarski, L. Levin, R. Maddux and I. Ruzsa. For further information and registration form write to: Bolyai Janos Mathematical Society, ASL '92 Logic Conference, H-1027 Fót utca 68, Budapest, Hungary, e-mail: aslogictaki.hu.

CONFERENCE IN HONOUR OF JOHN SHEPHERDSON

A conference in honour of John Shepherdson will be held in Bristol on Saturday 21st to Sunday 22nd March at the Burwalls Conference Centre, The University of Bristol. The following have agreed to speak: G. Kreisel, M. Rabin, Y. Moschovakis and A. Wilkie.

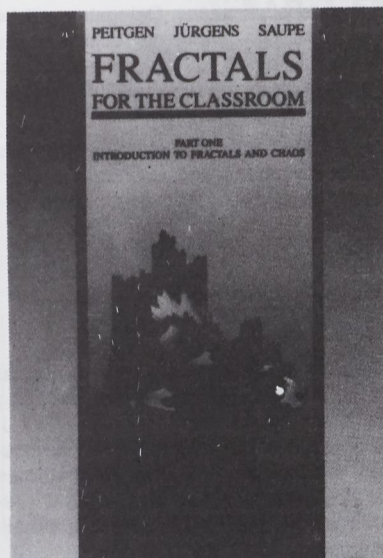
Further details can be obtained from Philip Welch, School of Mathematics, University of Bristol, Bristol BS8 1TW or e-mail: p.welch@bristol.ac.uk. The conference is receiving financial support from the London Mathematical Society.

FIFTH SCHRÖDINGER LECTURE

Professor F.J. Dyson, FRS, will give the Fifth Schrödinger Lecture on "Quantum Past - The Limitations of Quantum Theory" on Thursday 7th May at 5.30 pm in the Great Hall of Im-

perial College, London SW7. For further information write to Dr P. Dolan, Department of Mathematics, Imperial College, London SW7 2AZ.

The new Peitgen...



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... presents how fractals and chaos relate to each other and to many other aspects of mathematics as well as to natural phenomena.

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Foreword: Benoit B. Mandelbrot: Fractals and the Rebirth of Experimental Mathematics. - The Backbone of Fractals: Feedback and the Iterator. -

Classical Fractals and Self-Similarity. - Limits and Self-Similarity. - Length, Area and Dimension. - Measuring Complexity and Scaling Properties. - Encoding Images by Simple Transformations. - The Chaos Game: How Randomness Creates Deterministic Shapes. - Irregular Shapes: Randomness in Fractal Constructions.

H.-O. Peitgen, H. Jürgens, D. Saupe

FRACTALS FOR THE CLASSROOM

Part 1

Introduction to Fractals and Chaos

1992. XIV, 450 pp. 289 figs. 8 in color. Hardcover £ 19.50
ISBN 3-540-97041-X

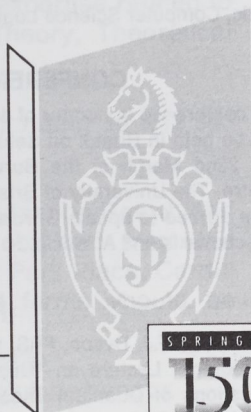
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Mandelbrot Set and Complex Iterators

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EDUCATION COMMITTEE - GRANTS

The LMS Education Committee would welcome requests for support for activities such as popular lectures, exhibitions, masterclasses, mathematical competitions, that help to encourage joint ventures between higher education institutions and schools, or the development of projects that would improve the 'Public Image of Mathematics'. To make the job of the Committee as simple as possible any application for support should contain a **brief** description of the proposed event or project, with an outline of expected expenses, and details of other sources of support.

The Committee meets in April, September and January, so please apply a good time before the event. Requests should be sent to Dr T. Porter, School of Mathematics, University College of North Wales, Dean Street, Bangor LL57 1UT. (Informal contact may be made via maso13@uk.ac.bangor.vax, but it would make my job easier if I can receive the 'formal' application via ordinary mail.)

T. Porter
Secretary
Education Committee

NEW INDEX THEOREMS AND APPLICATIONS

A conference on New Methods and Applications in the Index Theory of Elliptic Operators will be held in Oxford from 1st to 4th July 1992. All members of the Society are welcome to attend. Enquiries to Dr John Roe,

Jesus College, Oxford OX1 3DW or via e-mail jroe@uk.ac.oxford.vax. The conference is receiving financial support from the London Mathematical Society.

1992 BRITISH MATHEMATICAL COLLOQUIUM

Application for the 44th British Mathematical Colloquium closes on 9th March 1992. The Colloquium will be held at the University of

Strathclyde in Glasgow, from Monday 6th to Friday 10th April, 1992.

LEEDS DIFFERENTIAL GEOMETRY DAY Friday 27 March 1992

There will be a Differential Geometry Day in the School of Mathematics, University of Leeds on Friday 27 March 1992. The programme will be as follows:

- 10.45 P. Kobak (Oxford) Quaternionic twistor spaces and harmonic maps
- 11.50 M. Struwe (ETH, Zurich) The evolution of harmonic maps
- 2.15 E. Vassiliou (Athens, visiting Cambridge) Connections, total equations and Floquet-type theorems
- 3.45 F. Hélein (ENS, Cachan) Regularity of weakly harmonic maps on two-dimensional manifolds.

All interested are welcome to attend. Talks will take place in Room G, level 8 in the School of Mathematics. Coffee will be served at 10.15 on level 9, outside the Mathematics Staff Common Room.

Further details from John C. Wood, School of Mathematics, University of Leeds, Leeds LS2 9JT, telephone 0532-335106, fax 0532-429925, e-mail pmt6jcw@uk.ac.leeds.cms1. The visit of Professor Hélein is supported by a Scheme 2 travel grant from the London Mathematical Society.

Pluripotential Theory

Maciej Klimek

The substantial proportion of this monograph is devoted to classical properties of subharmonic and plurisubharmonic functions, providing an up-to-date account of the developments from the large volume of recent work in this area.

London Mathematical Society Monograph Series (New Series) No. 6

0-19-853568-6, 288 pp., Clarendon Press, December 1991

£30.00

❖ *Special offer price of £22.50 to LMS members* ❖

Relative Category Theory and Geometric Morphisms

A Logical Approach

Jonathan Chapman and Frederick Rowbottom

Topos theory provides an important setting and language for much of mathematical logic and set theory. This book presents a convenient and natural solution to the treatment of geometric morphisms in this setting and shows how this may be applied to topics such as the relative Giraud theorem.

Oxford Logic Guides No. 16

0-19-853434-5, 280 pp., illus., Clarendon Press, February 1992

£35.00

A Study of Logics

John P. Cleave

This is a new systematic study of the principles behind the variety of logical systems in mathematical logic and computer science. The technical work is illuminated by information about its historical and philosophical context.

Oxford Logic Guides No. 18

0-19-853211-3, 430 pp., illus., Clarendon Press, December 1991

£65.00

The Theory of Transformation Groups

Katsuo Kawakubo

This book presents an introduction to the theory of transformation groups with emphasis on the study of topological groups and the compact Lie groups acting on manifolds.

0-19-853212-1, 348 pp., illus., November 1991

£45.00

TO ORDER: *These books can be ordered from your usual supplier.*

Customers in the UK, Europe and the Middle East can also order from OUP Distribution Services, Saxon Way West, Corby, Northants, NN18 9ES (add £1.75 for P & P). Credit card holders can order by phone (0536) 744964; or fax (0536) 746337.

FURTHER INFORMATION: *Please write to Susan Harrison, SMJ Marketing Department, Oxford University Press, Walton Street, Oxford, OX2 6DP; phone (0865) 56767; or fax (0865) 56646.*

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Philip Hall (1904-1982) was educated at Christ's Hospital, London and King's College, Cambridge, graduating as a Wrangler in 1925 with Hodge and D.E. Littlewood. In 1927 he became a Fellow of King's, and produced a series of major papers on group theory. From 1941 to 1945 he worked on codes at Bletchley Park. As a young man he pleaded to being less reclusive only than Turing, but later he was liberal in his hospitality at King's, and supervised many students, thus adding to his contribution to the development of algebra in Britain. He was elected to Fellowship of the Royal Society in 1942 and awarded their Sylvester medal in 1961. The London Mathematical Society awarded him the Senior Berwick Prize in 1958 and the De Morgan Medal in 1965. He was the Society's 46th President from 1955-1957.

DIARY

The diary lists Society meetings and other events publicised 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.

1992

MARCH

- 5-6 Operator Algebras and Applications Meeting, University College of Swansea (191)
- 13 Edinburgh Mathematical Society Meeting, Dundee (186)
- 20 LMS Meeting, London
- 21-22 Conference in Honour of John Shepherdson, Bristol (190)
- 24-26 8th British Colloquium for Theoretical Computer Science, Newcastle-upon-Tyne (190)
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- 6-10 British Mathematical Colloquium, Strathclyde (188)
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- 9-12 Analysis and Optimization of Systems Conference, Sophia-Antipolis, France (190)
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- 27-3 July The Penrose Transform and Analytic Cohomology in Representation Theory Conference, Massachusetts, U.S.A. (186)
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The Newsletter is published monthly except in August. Items and advertisements for inclusion in the Newsletter should be sent to the Editor, Susan Oakes, London Mathematical Society, Burlington House, Piccadilly, London W1V 0NL, to arrive before the first day of the month prior to publication. Telephone 071- 437 5377, Fax 071-439 4629, E-mail ims@uk.ac.kcl.cc.oak.