The London Mathematical Society Neusletter

No.152

July 1988

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 WIV ONL) to arrive before the first day of the month prior to publication.

FORTHCOMING SOCIETY MEETINGS

Friday 21 October 1988, Burlington House Meeting on Differential Geometry N.J. Hitchin, S.M. Salamon, M. Gromov

Friday 18 November 1988, Royal Society Annual General Meeting

ELECTRONIC BULLETINBOARDS

A directory of Electronic Bulletinboards and user groups which are of interest to mathematicians in the U.K. is being compiled by Professor Vámos. If you have any information on these, please let him know on E-mail to VAMOS.P@UK.AC.EX. or by writing to Professor P. Vámos, Dept of Mathematics, University of Exeter, North Park Road, Exeter EX4 4QE.

EUROPEAN CONFERENCE ON MATHEMATICS IN INDUSTRY (ECMI-'88)

On behalf of the European Consortium for Mathematics in Industry, the Centre for Industrial Mathematics and Control (CIMAC) will host the 3rd European Conference for Mathematics in Industry. The conference will be held at the University of Strathclyde from 28th - 31st August 1988.

The conference themes are: Application of mathematics to industrial problems; New mathematical techniques and concepts from industrial problems; The development of the mathematical infrastructure required for industrial application.

The call for papers and general announcement has been widely circulated and it is anticipated that over seventy technical papers will be presented by authors from many countries.

An important objective of the conference is to encourage research students to look at industrial applications of their work and to consider direct involvement in industrial problems and/or future employment in industry. Several industries have generously donated financial support for the conference and it is proposed to use this support to provide financial assistance to bona fide research students. This support will cover students registration fee plus accommodation costs for up to four nights in conference accommodation specified by the organizing committee. It will not cover subsistence costs or travel.

Applications from both SERC and other research students for financial support are now actively encouraged but must be accompanied by a supporting letter from his or her Head of Department. The application should be sent to the Conference Secretariat (ECMI-'88), Department of Mathematics, Strathclyde University, Glasgow G1 1XH. Please note that funds are limited and hence financial support will be allocated on a first arrive first served basis.

GEORGE G. HARVEY

Professor George G. Harvey who was elected a member of the London Mathematical Society on

18th February 1937 died on 9th April 1988.

LONDON MATHEMATICAL SOCIETY

Notice of General Meeting

There will be a General Meeting of the Society on Friday, 21st October 1988 at 5.00 p.m. in the Meeting Room of the Geological Society, Burlington House, Piccadilly, London W1, to consider a proposal by the Council of the Society to delete the existing By-Law II, 3 and to substitute that printed below.

The new By–Law, if accepted, will increase the annual subscription of Corporation and Institutional members for 1988–89 to £300 from the 1987–88 level of £276.

Text of the Proposed By-Law II,3.

The annual subscription to the Society of Corporation and Institutional Members for the 1988–89 session shall be £300, inclusive of one volume of the **Bulletin** and two volumes of the **Journal** and of the **Proceedings**, except that those Corporation and Institutional Members who have more than one Representative shall pay an additional subscription of £10 for each Representative in excess of one.

> C.J. Mulvey Council and General Secretary.

LONDON MATHEMATICAL SOCIETY

Popular Lectures

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

> Professor M.V. Berry CHAOLOGY

Friday 1 July 1988 Great Hall, Sherfield Building, Imperial College, Exhibition Road, London SW7 at 7.30 pm

> Monday 11 July 1988 Eleanor Rathbone Theatre, University of Liverpool, Liverpool at 2.30 pm and 7.30 pm

ALL INTERESTED ARE WELCOME

The lectures are intended to be suitable for a general audience and no specific mathematical knowledge will be assumed. Although the talks are not primarily intended for professional mathematicians, everyone is welcome and some members may wish to apply for tickets for friends and relatives.

Admission to the lectures will be by ticket only. Applications for the lectures on Friday 1 July at Imperial College, London should be sent to Miss Susan Oakes, London Mathematical Society, Burlington House, Piccadilly, London W1V 0NL. Applications for the lectures on Monday 11 July at Liverpool University should be sent to Dr I.R. Porteous, Dept of Pure Mathematics, Liverpool University, PO Box 147, Liverpool L69 3BX (indicate which time). A stampedaddressed envelope would be appreciated. There is no charge for admission.

LOGIC FOR IT

'Logic for IT' is a SERC funded initiative, launched in January of this year, and designed to stimulate research between computer science and mathematics with the long term aim of building up a viable community in this interdisciplinary area. The initiative will run for five years, 1988 - 1992, with some run out activities in later years. 'Logic' should be interpreted fairly broadly. It includes all of mathematical logic as well as category theory, universal algebra, and parts of lattice theory and topology.

The initiative has funds for several different* interdisciplinary activities, including research studentships, postdoctoral fellowships, one year senior fellowships, research workshops, tutorial workshops, and summer schools. At the moment the main thrust of the initiative is educational via the workshops and summer schools.

Several research workshops have been held already and several more have been approved or are in the planning stage. Some of these have been jointly sponsored with the LMS.

A series of tutorial workshops will begin in the next academic year. These will aim to teach com-

Members of the Society are reminded that

nominations of members for election to the Council of the Society may be made by writing to the Council and General Secretary so as to arrive before noon on 1st September. Any nomination must be made in accordance with the Charter, Statutes and By-Laws of the Society, must state the office or term of membership of Council to which nomination is made, must be signed by the

The Polya Prize is awarded to Professor C.T.C. Wall of the University of Liverpool, for his significant contributions to algebraic, geometric, and differential topology.

The Senior Berwick Prize is awarded to Professor D.B.A. Epstein of the University of Warwick, for his papers entitled "Notes on notes of Thurston" (with P. Green and R.D. Canary) and "Convex hulls, a theorem of Sullivan, and measured pleated surfaces" (with A. Marden).

Junior Whitehead Prizes, exceptionally three in

Work has been in progress for some time on an edition of Turing's Collected Works, to be published by North Holland Publishing Company, and it is hoped that the first volumes will appear in 1989. The edition comprises four volumes, containing, respectively, Turing's work in: Pure Mathematics (excluding Mathematical Logic), edited by J.L. Britton; Mathematical Logic, edited by R.O. Gandy; puter scientists the relevant mathematics, or conversely teach mathematicians some computer science. They may be elementary or at a more advanced level. The topics for these workshops are now being planned, and any suggestions will be considered.

Two summer schools will be held this year. The first 'Constructive Logic and Category Theory' will take place at the Isle of Thorns (Sussex) from 7th to 13th August. This will include courses on Martin-Löf type theory, Categories and types, Modelling polymorphism, and Linear logic. The second 'Formal Systems for A1' will take place in Glasgow from 18th to 24th September. This will include courses on Modal and Temporal logics, Modal logic and truth, Non-monotone logic, and Automatic theorem proving techniques.

Further information about the initiative can be obtained from the following: Rowena L. Sirey, Logic for IT, S.E.R.C., Polaris House, North Star Avenue, Swindon SN2 1ET; Harold Simmons, Coordinator, Logic for IT, Department of Mathematics, University of Aberdeen, Aberdeen AB9 2TY.

COUNCIL NOMINATIONS

member nominated, by the nominator and by a seconder who is also a member of the Society. All valid nominations received are added to those made by the Council at its June meeting, and circulated to the Society on a Ballot Paper which is used for voting in the Council Elections at the Annual General Meeting in November.

> Christopher J. Mulvey. Council and General Secretary.

LMS 1988 PRIZES

number in view of the outstanding field of candidates, are awarded to Dr S.M. Rees of the University of Liverpool, for her work on ergodic theory and dynamical systems, to Dr P.J. Webb of the University of Manchester, for his work on the representation theory and cohomology of finite groups, and to Professor A. Wiles of Princeton University and the University of Oxford, for his work in number theory.

> C.J. Mulvey, Council and General Secretary

COLLECTED WORKS OF A.M. TURING

Computation, edited by D.C. Ince; and Morphogenesis, edited by M.W. Ho and P.T. Saunders. Published articles will be reproduced in facsimile, with a historical introduction and full annotation, and unpublished work will be included in edited form, together with associated articles by Turing's fellow-workers.

Oxford University Press announces and invites submissions for

The London Mathematical Society Monographs

Editors

P.M. Cohn, University College, London H.G. Dales, University of Leeds

The monographs have been recognized for a number of years as a series of authoritative and definitive accounts of areas of current research interest in mathematics. They are intended for professional mathematicians and advanced research students.

The volumes are hardbacked and produced to a high standard. Type is set professionally. It is anticipated that the books will be published within a year of the submission of the final manuscript. Volumes are normally from 200 to 450 printed pages in length.

Already published:

R.C. Baker, *Diophantine Inequalities* G. Karpilovsky, *The Schur Multiplier* G. Higman and E. Scott, *Existentially Closed Groups*

Members of the London Mathematical Society may buy volumes in the series at a discount of 25% from Oxford University Press.

Prospective authors are encouraged to submit proposals, preferably at an early stage to one of the series editors, or to contact:

Martin Gilchrist Oxford University Press Walton Street Oxford OX2 6DP England

UNIVERSITY OF WARWICK PROFESSORSHIP IN MATHEMATICS

Applications are invited for a Professorship in Mathematics, including possibly the Directorship of the Mathematics Research Centre, to succeed Professor E.C. Zeeman, FRS, the founding Professor of the Department, following his appointnment as principal of Hertford College, Oxford. The Department has strengths and research interests in both pure and applied Mathematics and it is expected that the successful candidate will be able to stimulate the work of the Department across the broad spectrum of the subject.

Salary will be on the Professorial scale; current minimum £23,380.

Applications (3 copies) should be sent to the Registrar, University of Warwick, Coventry CV4 7AL. (Tel: 0203 523627) from whom further particulars may be obtained, quoting Ref. No. 43/A/87/105 (please mark clearly on envelope). The closing date for applications is 1 October 1988.

DEPARTMENT OF MATHEMATICS THE UNIVERSITY OF WESTERN ONTARIO

Applications or nominations are invited for the position of Chairman, Department of Mathematics, Faculty of Science. The effective date of the appointment is July 1, 1989.

Applications or nominations should be addressed to:

Dr W.S. Fyfe, Dean, Faculty of Science, Natural Sciences Centre, The University of Western Ontario, London, Ontario, Canada N6A 5B7.

Applications or nominations should be submitted by January 1, 1989. In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents of Canada.

An Equal Opportunity Employer.

RECENT SERC AWARDS

Visiting Fellowships

A.A. Lacey, Heriot-Watt. P.C. Fife, U.S.A. Systems of nonlinear reaction diffusion equations.

J.R. Cash, Imperial College. R.D. Russell, Canada. The numerical solution of general nonlinear two point boundary line problems.

M.J.D. Powell, Cambridge. C.A. Micchelli, U.S.A. Multivariate approximation using radical basis functions.

A.J. Hayter, Bath. A.C. Tamhane, U.S.A. An investigation into certain major problems in the fields of simultaneous inference, ranking and selection.

R. Brown, University College North Wales. P.J. Higgins, G.B. Algebraic models of integral homotopy types.

W.D. Evans, University College Cardiff. Various visitors. Gregynog symposium on differential equations.

W.A. Hodges, Queen Mary College. S.R. Thomas, U.S.A. Large automorphism groups.

D.B. Ingram, Leeds. B.R. Morton, Australia. The experiments and numerical investigation into some fluid flow problems.

D.R. Hughes, Queen Mary College. J.J. Seidel, Netherlands. *Algebraic combinatorics.*

A.J. MacIntyre, Oxford. M. Karpinski, West Germany. Complexity of computation with special reference to real exponential polynomials.

A.J. MacIntyre, Oxford. Z.M. Chatzidakis, U.S.A. Model theory of fields.

P.J. Higgins, Durham. Various visitors. Geometry of low-dimensional manifolds (an LMS Durham research symposium)

R.C. Vaughan, Imperial College. A.D. Pollington, U.S.A. Techniques in diophantine approximation.

C.R. Hajarnavis, Warwick. A. Braun, Israel. Applications of P.I. rings.

P.R. Fisk, Edinburgh. Various visitors. Statistical and expert systems.

I.N. Baker, Imperial College. D.H. Hamilton, U.S.A. Geometric problems in complex analysis.

J.H. Coates, Cambridge. P. Schneider. *Iwasawa* theory of motives.

B.D. Sleeman, Dundee. Various Visitors. 10th Dundee conference on the theory of ordinary and partial differential equations.

M. West, Warwick. N.S. Singpurwalla, Netherlands. Bayesian reliability analysis.

K.A. Brown, Glasgow. J.A. Moody, U.S.A. Problems in group rugs.

E.F. Corrigan, Durham. A.A. Belavin, U.S.S.R. *The theory of strings and superstrings.*

J.B. McLeod, Oxford. L.A. Peletier, Netherlands. Nonlinear diffusion equations.

P.J. Higgins, Durham. Various visitors. *L*functions in arithmetic (an LMS Durham research symposium)

M.J. Taylor, Manchester. Various visitors. Symposium in Galois modules and arithmetic.

A.F.M. Smith, Nottingham. A.E. Gelfand, U.S.A. *Hierarchical and empirical Bayesian models and methods.* D.W. Moore, Imperial College. D.I. Pullin, Australia. Effect of compressibility on vortex motion with special reference to the vortex pair.

C.S. Iliopoulos, Royal Holloway & Bedford New College. A. Apostolico, U.S.A. *Efficient parallel algorithms for subword graphs and related applications.*

S.D. Jacka, Warwick. M. Yor, France. Inequalities for non-moderate functions.

C. Kearton, Durham. J.A. Hillman, Australia. Doubly slice stable knots.

S.K. Donaldson, Oxford. M. Furuta, Japan. Yang-Mills fields on orbifolds.

S.M. Lewis, Southampton. A.M. Dean, U.S.A. Change-over designs for nested blocking factors.

A.C. Davison, Imperial College. J.P. Romano, U.S.A. *Efficient prepivoting.*

I.N. Stewart, Warwick. M.J. Field, Australia. Symmetry - breaking for reflection groups.

C.M. Series, Warwick. S.J. Patterson, West Germany. *Hyperbolic geometry dynamics and number theory*.

C. Kearton, Durham. M. Farber, Israel. *Doubly* slice stable knots.

A.C. Ottewill, Oxford. B. Allen, U.S.A. The Vilkovisky-Dewitt effective action in one-loop quantum gravity.

P.E. Newstead, Liverpool. Various visitors. Conference on vector bundles in algebraic geometry.

W.N. Everitt, Birmingham. A. Zettl, P.B. Bailey, U.S.A. Extension of sleigh (Baileys code) to differential problems with internal singulariti3s.

P.M. Neumann, Oxford. S.A. Adeleke, U.S.A. Some infinite permutation groups.

T.O. Hawkes, Warwick. J. Cossey, Australia. Representation theory and applications.

T.A. Gillespie, Edinburgh. E.R. Berkson, U.S.A. Spectral decompositions in Banach spaces.

C.S. Iliopoulos, Royal Holloway & Bedford New College. W.F. Smyth, Canada. *Parallel algorithms and graph theory*.

F.P. Kelly, Cambridge. J.M. Harrison, U.S.A. Stochastic models of networks.

W.A. Hodges, Queen Mary College. S. Shelah, Israel. *Models and infinite combinatorics.*

F.G. Leppington, Imperial College. H. Levine, U.S.A. A.F.M. Smith, Nottingham, L.R. Pericchi, Venezuela. Model choice and imprecise inference methodology in nonlinear regression, hierarchical and calibration models.

N.H. Bingham, Royal Holloway & Bedford New College. P.E. Greenwood, Canada. *Branching random fields*.

Research Grants

A.P. Fordy, Leeds. Nonlinear evolution equations: isolating integrable systems.

J.H. Davenport, Bath. Integration closed form: further developments.

S.J. Cowley, Imperial College. Numerical solution of unsteady three-dimensional laminar boundary-layer flow over bodies at incidence. R.W. Carter, Warwick. Investigations in the theory of algebraic groups.

K.W. Morton, D.F. Mayers, J.S. Rollett, Oxford. Institute of computational fluid dynamics (Oxford extension).

P.J. Higgins, Durham: P.M. Neumann, Oxford; W. Hodges, Queen Mary College. *Model theory and groups (an LMS Durham Symposium).*

P.J. Higgins, Durham; P. Walters, Warwick; D.A. Rand, Warwick. Dynamical systems (an LMS Durham Symposium).

P.J. Higgins, Durham; R. Penrose, Oxford; C.J. Isham, Imperial College. Spinors, twistors and complex structure in general relativity (an LMS Durham Symposium).

J.C. McCommell, J.C. Robson, J.T. Stafford, Leeds. Rings of differential operators over singular varieties with applications to Lie algebras.

M.B. Green, Queen Mary College. Mathematical problems in the theory of superstrings.

F.T. Smith, University College London. Unsteady Euler flows and viscous effects - nonlinear systems.

S.K. Donaldsson, Oxford. Nonlinear differential equations in geometry.

C.T. Sparrow, N.O. Weiss, Cambridge. Nonlinear dynamics.

D.A. Rand, G.P. King, R.S. Mackay, Warwick. Nonlinear systems laboratory II.

O. Penrose, J.M. Ball, J. Carr, Heriot-Watt. Nonlinear phase transition problems.

J.F. Toland, Bath. Nonlinear mathematics development of theory and applications.

P.J. Bown, Liverpool. Regression, calibration and quality control.

F.P. Kelly, Cambridge. Computer based mathematical and statistical modelling.

D.M. Titterington, I. Ford, J.W. Kay, A.W. Bowman, E.M. Scott, B. Torsney, Glasgow. Statistical methods in image restoration and analysis density estimation and complex modelling with applications.

J.A. Green, Warwick. Representations of classical and restated groups.

I.C. Percival, Queen Mary College. Nonlinear dynamics.

D.J. Silvester, R.W. Thatcher, UMIST. The development of efficient general finite element software for vector processors.

S.J. Cowley, Imperial College. Numerical solution of unsteady three-dimensional laminar boundary-layer flow over bodies at incidence.

J.H. Davenport, Bath. Algebraic research using stratch-pad II.

B.D. Ripley, W.S. Kendall, Strathclyde. Complex stochastic systems.

R.L. Smith, M.J. Crowder, A.C. Kimber, Surrey. Robust inference for stochastic processes.

A.F.M. Smith, Nottingham; A.M. Skene, Nottingham; J.E.H. Smaw, Warwick. Inference and display methodology for irregular and multiparameter likelihood functions.

P.G. Drazin, Bristol. Chaotic advection.

M.B. Green, Queen Mary College. Mathematical

problems in the theory of superstrings.

F.T. Smith, University College London. Unsteady Euler flows and viscous effects - nonlinear systems.

T.B. Benjamin, Oxford. Mathematical complement for programme of combined research on nonlinear systems.

F.T. Smith, University College London. *Viscous-inviscid hypersonic internal flow.*

F.C. Piper, P.R. Wild, Z. Ciechanowicz, Royal Holloway & Bedford New College. *Encryption al-gorithms*.

R.W. Tucker, Lancaster. Extended particle dynamics.

M.A.H. MacCallum, Queen Mary College. Applications of algebraic computing.

P.W. Duck, Manchester. The numerical solution of the unsteady triple-deck equations.

M.J. Sewell, Reading. Singularities and the evolution of atmospheric fronts.

C.J.S. Clarke, Southampton. Weak solutions in general relativity.

R.W. Carter, Warwick. Investigations in the theory of algebraic groups.

F.T. Smith, University College London. Hypersonic nonlinear interactions and separation.

H.P. Williams, K.I.M. McKinnon, Southampton. Efficient integer programming formulation using the predicate calculus and polyhedral combinatorics.

J.S.B. Gajjar, Exeter. Flow over compliant surfaces.

P.W. Duck, Manchester. Numerical solution of the Navier-Stokes equations: flow past an obstacle located between parallel boundaries.

F.T. Smith, University College London. 3D boundary layer transition computations.

A.P. Dawid, University College London. *Probabilistic modelling for expert systems*.

R.A. D'Inverno, Southampton. Construction and maintenance of a computer data base of exact solutions in general relativity.

T.J. Pedley, Cambridge. Numerical solution of unsteady Euler and Navier-Stokes equations.

M.E. McIntyre, Cambridge. Two-dimensional vortex flow as a dynamical system.

I.N. Stewart, R.M. Roberts, Warwick. *Periodic trajectories and singularity theory.*

N.O. Weiss, Cambridge; D.P. McKenzie; D.R. Moore, Imperial College. *Numerical investigation* of three-dimensional convection.

O.B. Ingham, Leeds. The experimental and numerical investigation into some fluid flow problems.

C.J. Bushnell, King's College London. Representations of p-adic groups and the local Langlands conjecture.

C.J. Isham, Imperial College. Field structure through model studies.

D.E. Evans, Swansea. Operator algebras and applications.

M.B. Green, Queen Mary College. Algebraic and geometrical structure of relativistic string theories. P.C.W. Davies, I.G. Moss, D.J. Toms, Newcastle-upon-Tyne. *Quantum gravity and the* very early universe II.

L.C. Thomas, K.I.M. McKinnon, Edinburgh, J.T. Buchanan, Strathclyde. *Dynamic programming using parallal processors*.

E.B. Davies, King's College London. Diffusion semigroups non-commutativity and geometry.

M. West, Warwick. Monte-Carlo methods for Bayesian inference.

P.E. Newstead, Liverpool. Moduli spaces of vector bundles on algebraic curves.

M.J. Baines, P.K. Sweby, Reading. Institute for computational fluid dynamics (Reading) extension.

R. Sibson, B.W. Silverman, C. Jennison, A. Robinson, Bath. *Topics in computational statistics*.

J.C.R. Hunt, N.A. Malik, Cambridge. Stochastic analysis of turbulent flames.

T.A. Gillespie, Edinburgh. Spectral decompositions of linear operators.

D.M. Titterington, J.C. Brown, J.W. Kay, Glasgow. A comparison of the efficiency of various image processing techniques and smoothing criteria.

D.S. Riley, Bristol. Studies in the role of convection in DI recreational solidification.

A.F.M. Smith, Nottingham. Inference and display methodology for irregular and multiparameter likelihoods.

M. Goldstein, Hull. Modelling and analysis of stochastic systems based on partial belief structures.

J.E. Besag, P.J. Green, B.T. Porteous, Durham. Image processing: theory and applications.

P.J. Harrison, Warwick. Computational and graphical methods to complex multidimensional statistical problems.

EXISTENTIALLY CLOSED GROUPS

"Existentially Closed Groups" by Graham Higman "and Elizabeth Scott, Volume 3 in the London Mathematical Society Monographs (new series), is "now available. Published price £25, ISBN 0 19 853543-0. Members of the London Mathematical

Society are reminded that they are entitled to a 25% discount by ordering direct from Oxford University Press. Orders should be directed to Oxford University Press Bookshop, 116 High Street, Oxford.

ROLLO DAVIDSON TRUST

In the announcement of the award of a Davidson Prize to Dr P.H. Baxendale, his university affiliation was incorrectly stated. Since 1973 he has been a

CAUCHY AND THE FRENCH MATHEMATICAL WORLD

Born in the very year of the French Revolution, A.L. Cauchy had a deep and lasting influence on the development of both mathematics and mathematical physics during the 19th century. In recent times his work has been the subject of a renewed historical interest. On this ground an international symposium is planned in order to present a comprehensive picture of this great mathematician with different perspectives on his scientific work.

The symposium will be held in Paris (27-29 July 1989), a few days before the 18th International Congress of History of Science to be held in Germany. lecturer in the Department of Mathematics, Aberdeen University. He is currently on leave of absence in Florida.

Proposals for communications and participation should be communicated to the organizers before July 15, 1988. A more detailed announcement will be sent before the end of September 1988.

The organizers are: Umberto Bottazzini, Università di Bologna, Dipartimento di Matematica, Piazza di Porta San Donato 5, 40127 Bologna, Italy; Jean Dhombres, Département de Mathématiques, 2 Chemin de la Houssinière, 44072 Nantes Cédex, France; Christian Gilain, Laboratoire de Mathématiques Fondamentales, Université Paris VI, Tour 46 3ème étage, 4 Place Jussieu, 75005 Paris, France.

LMS INVITED LECTURES

The Society proposes to initiate a series of meetings, beginning in 1990, at which a single speaker will give a course of about ten expository lectures, examing some subject in depth, over a five day period (Monday to Friday) during a University vacation. Such meetings will be residential and open to all interested. It is intended that the text of the lectures shall be published. In addition to full expenses, the lecturer will be offered a fee of £1500 on delivery of the text in a form suitable for

publication. Proposals are invited from any Member who, in addition to suggesting a topic and lecturer, would be prepared to organise the meeting at the Member's own institution or a suitable conference centre. Enquiries about this new initiative should be sent to the Meetings and Membership Secretary, A.R. Pears, Department of Mathematics, King's College London, Strand, London WC2R 2LS (telephone: 01-836-5454, extn. 2852) to whom proposals should be sent no later than 31 August 1988.

PROGRAMME AND CONFERENCE FUND

The next closing date for applications to the Society's Programme and Conference Fund (for financial support for visitors under Schemes 1 and 2 and for small meetings and conferences) is 31 August 1988. Further information can be found in the Society's May Newsletter (No. 150).

A.R. Pears Meetings and Membership Secretary

FIELDS OF INTEREST

Members of the Society have the opportunity to record in the List of Members up to three fields of interest, using the AMS Mathematics Subject Classification, details of which appear on page 17 of the current List of Members. To assist, for example, the organisers of conferences or seminars, the Society is able to supply lists of all members whose entry records any particular field of interest. Requests, for up to three such lists on any one occasion, should be made to The Administrator, Susan M. Oakes, London Mathematical Society, Burlington House, Piccadilly, London W1V ONL.

PAPAL HONOUR

Professor R.F. Churchhouse of University College Cardiff, formerfly Editor of the Society's Journal, has been approximated Knight of the Order of St Gregory, the highest honour for lay Catholics, for his services to education in South Wales.

BRITISH MATHEMATICAL COLLOQUIUM

Future meetings: 1989 Nottingham 1990 East Anglia 1991 Bath 1992 Strathclyde 1993 Reading

(3-7 April) (2-6 April) (25-29 March) (6-10 April) (28-31 March)

INTERNATIONAL CENTRE FOR THEORETICAL PHYSICS

The following mathematics activities are being organised at the International Centre for Theoretical Physics: Summer School on Dynamical Systems (16 August - 9 September 1988); Workshop om Dynamical Systems (5-23 September 1988); First Autumn Workshop on Mathematical Ecology (31 October - 18 November 1988); College: on Global Geometric and Topological Methods: in Analysis (21 November - 16 December 1988); Workshop on Theoretical Fluid

The Fifteemth Australasian Conference on Combinatorial Mathematics and Computing will be held at the University of Queensland, Brisbane, Queensland, From 10th to 14th July 1989. All interested persons are cordially invited to attend. Contributed persons are welcome in all areas of combinatorics and combinatorial computing, pure and applied. Invited speakers are being arranged. Accommodation on campus at the University of Queensland well be available.

Those who are not members of C.M.S.A. but are interested in attending the conference please write to: Professor Anne Penfold Street, Director C.M.S.A., Department of Mathematics, University of Queenslandt, St Lucia, Queensland 4067, Australia. Mechanics and Applications (9 - 27 January 1989); Topical Meeting on Hyperbolic Geometry and Ergodic Theory (17 - 28 April 1989) and Topical Meeting on Variational Problems in Analysis (28 August - 8 September 1989).

For further information write to the Director of Mathematics, International Centre for Theoretical Physics, 34100 Trieste, P.O.B. 568, Miramare, Strada Costiera 11, Italy.

COMBINATORIAL MATHEMATICS

The Combinatorial Mathematics Society of Australaia was formed in 1978 to promote combinatorial mathematics. It disseminates information about combinatorics and combinatoricists through its newsletter *Combinatorics*, and it conducts an annual conference with refereed published proceedings. There are currently about 120 members from all over the world.

Any interested person is invited to join the C.M.S.A. Annual subscription for 1988 is Austalian \$5. payable to C.M.S.A. Members receive the newsletter and a reduction in the conference registration fee. Please address all enquiries, giving your full name and address, to Professor Street at the above address.



DIARY

The diary lists Society meetings and other events publicised in previous issues of the Newsletter.

1988		
JULY 1 4-12	LMS Evening of Popular Lectures, London	
5-8 5-15	Theory of Ordinary and Partial Differential Equations, Dundee (144) Spinors, Twistors and Complex Structure in General Relativity, LMS Durham Durham (145)	Symposia,
10-16 11	Representation Theory of Groups and Related Topics, Manchester (149) LMS Evening of Popular Lectures, Liverpool	
13-20 17-27 18-28	1988 St Andrews Colloquium (138 & 145) IXth Congress of the International Association of Mathematical Physics, Swa Model Theory and Groups, LMS Durham Symposia, Durham (145)	nsea (138)
24-30 25-30	Radicals – Theory and Applications, Japan (143) Computational and Applied Mathematics, Belgium (142)	in na s ci Sinta
AUGUST	ICME-6 1988, Hungary (144)	
9-12 21-27 21-7 Sept 22-16 Sept	Henstock Real Analysis Symposium, Ireland (148) International Conference on General Algebra, Austria (145) St Flour Summer School in Probability, France (150) ICPAM Summer School, France (148)	
SEPTEMBER 1-3 5-8 12-14 16-19 19-23 21-22 25-30	History of Mathematics, Leicester (150) Undergraduate Mathematics Teaching Conference, Nottingham (150) Many-sorted Logic and Its Applications in Computer Science, Leeds (151) Physical Interpretations of Relativity Theory, London (143) International Colloquium on Differential Geometry, Spain (146) British Topology Meeting, Manchester (149) René Thom – International Symposium, France (147)	
OCTOBER 19-20 21	Fractals in the Natural Sciences, The Royal Society, London (144) LMS Meeting, London	· · · · · · · · · · · · · · · · · · ·
NOVEMBER 18	LMS Annual General Meeting, London	11 04) 2012 - 14
DECEMBER 8-9	Physics and Mathematics of Strings, The Royal Society, London (144)	
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