

THE LONDON MATHEMATICAL SOCIETY NEWSLETTER

No.143

October 1987

The Newsletter is published monthly except in August. Items for inclusion in the Newsletter should be sent either to the Administrator (Susan Oakes, London Mathematical Society, Burlington House, Piccadilly, London W1V 0NL) or the Publications Secretary (Professor D.A. Branann, Mathematics Faculty, The Open University, Walton Hall, Milton Keynes MK7 6AA). Advertisements should be addressed to the Administrator at the LMS office. All items and advertising material should arrive before the first day of the month prior to publication

FORTHCOMING SOCIETY MEETINGS

- Friday 16 October 1987, Burlington House
(D R J Chillingworth, P J Giblin, D M Q Mond, I N Stewart)
Friday 20 November 1987, Burlington House
(D.S. Jones, E. Meister)
Friday 15 January 1988, Burlington House
Friday 19 February 1988, Leeds
Friday 18 March 1988, Scientific Societies Lecture Theatre
Thursday, Friday 19-20 May 1988, Cardiff
Friday 17 June 1988, Burlington House
Friday 21 October 1988, Burlington House
Friday 18 November 1988, Royal Society
-

WORKSHOP ON GEOMETRIZATION OF STATISTICAL THEORY

A workshop on Geometrization of Statistical Theory is to be held at the University of Lancaster on 28th to 31st October 1987. This will be an intensive working meeting of specialist to disseminate, and to review critically, current work on the application of differential geometry to statistical theory. Invited speakers will present position papers, two on each morning of 29, 30, 31, October to be analysed and discussed generally in the afternoons. These papers and an account of the discussion will be published.

Anticipated topics include: derivative strings, uni-

versal connections and systems, conformal properties, completeness, stability, higher order processes, expansions.

All interested are welcome to participate. Further information and registration forms can be obtained from Dr C.T.J. Dodson - GST Workshop, Dept of Mathematics, University of Lancaster, Lancaster LA1 4YL, U.K. Telephone (0524) 65201. Telex 65111 Lancul G.

The workshop is being held with support from the London Mathematical Society.

RADICALS – THEORY AND APPLICATIONS

An international conference on Radicals – Theory and Applications is to be held in Sapporo, Japan from 24th to 30th July 1988

For further information write to Professor S. Kyuno, Department of Mathematics, Tohoku Gakuin University, Tagajo, Miyagi 985, Japan.

PROFESSOR D.H. GOTTLIEB

Professor D.H. Gottlieb, of Purdue University, will be making a Scheme II visit in October. Provisionally he will be lecturing at Oxford on the 19th, Warwick on the 22nd, Bangor on the 23rd, Man-

chester on the 27th and Cambridge on the 29th. Enquiries to Professor I.M. James, Mathematical Institute, 24-29 St Giles, Oxford OX1 3LB (phone 0865-273541).

PHYSICAL INTERPRETATIONS OF RELATIVITY THEORY

The British Society for the Philosophy of Science is sponsoring an international conference, of three days duration 'Physical Interpretations of Relativity Theory' to review the development, status and potential of the various physical interpretations of the Relativistic Formal Structure. The precise date remains to be fixed, but will be in September 1988.

The location will be Imperial College, London.

For more information, write to Conference coordinator: M.C. Duffy, Mechanical Engineering Dept, Sunderland Polytechnic, Chester Road, Sunderland, SR1 3SD, U.K. Telephone (091) 567 6191. Ext.107.

RESTRUCTURING HIGHER EDUCATION

The annual conference of the Society for Research into Higher Education will be held at the City of Birmingham Polytechnic from 16th to 18th December 1987 on Restructuring Higher Education. The aim of the conference is to provide a national forum for examining recent changes in policies in higher education.

University of Ulster), Peter Knight (Director, City of Birmingham Polytechnic), Sir Peter Swinnerton-Dyer (Chairman, University Grants Committee).

Conference proceedings will be published – editor Heather Eggins. They will be sent to all participants and the cost will be included in the conference fee.

The key note speakers are the Rt Hon. Kenneth Baker (Secretary of State for Education and Science), Christopher Ball (Chairman of the Board, National Advisory Body for Public Sector Higher Education), Derek Birley (Vice Chancellor, Uni-

For further information and booking forms write to Mr A.C.C. Meggy, Conference Administrator, Birmingham Polytechnic, Perry Barr, Birmingham B42 2SU. Completed booking forms to be returned no later than Friday 30th October 1987.

ISAAC NEWTON AND THE PRINCIPIA MATHEMATICA OF 1687

The Gresham Geometry Lectures for the Michaelmas Term 1987 are primarily intended for 6th form students of mathematics and physics and their teachers. They will be given by the Gresham Professor of Geometry, Professor Clive Kilmister on Wednesdays 11, 18 and 25th November at 5pm in the Lecture Theatre of the City of London School, Queen Victoria Street, London EC4V 3AL.

Principles of Natural Philosophy" was published. The first lecture will deal mainly with the events which led up to the writing of the book, the second will touch on the successes and failures of Newton's mechanics, and the third will discuss Newton's other interests in his later life.

It is 300 years since Newton's "Mathematical

Admission is free, by ticket available from Gresham College, Frobisher Crescent, Barbican, London EC2Y 8LA or tel 01 638 0353 X 297.

COMPUTER ALGEBRA IN STATISTICS AND APPLIED PROBABILITY

The Statistical Computing Section of the Royal Statistical Society, is holding a half-day meeting on Computer Algebra in Statistic and Applied Probability at 14.00 on Tuesday 20th October 1987. The meeting is being held in the Lecture Theatre, Canterbury Halls of Residence, 12-18 Cartwright Gardens, London WC1.

will be given by Jane Bryan-Jones on 'What can be done with computer algebra', Professor W. Silverman and Dr G. Alastair Young on 'Using computer algebra to investigate the smoothed bootstrap', Dr Wilfred S. Kendall on 'Calculation in the Ito calculus', Dr Arthur C. Norman on 'Inside an algebra system'. This will be followed by a discussion chaired by Professor David G. Kendall.

There will be demonstrations of the computer algebra system REDUCE by Jane Bryan-Jones, Arthur Norman and Acorn Computers. Lectures

All are welcome to attend and to take part in the discussion.

LONDON MATHEMATICAL SOCIETY

Meeting on Singularity Theory
FRIDAY 16 OCTOBER 1987

2.00 p.m. D.R.J. Chillingworth
(Southampton)
Astroids

2.50 p.m. P.J. Giblin (Liverpool)
**What do views of a surface tell you about
its shape?**

3.40 p.m. D.M.Q. Mond (Warwick)
**Singularities of Mappings $\mathbb{C}^n \rightarrow \mathbb{C}^p$ with
 $n < p$**

An Ordinary Meeting will commence at 5.00
I.N. Stewart (Warwick) will speak on
**Singularities and Groups in Bifurcation
Theory**

Geological Society's Meeting Room
Burlington House
Picadilly, London W1

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

LONDON MATHEMATICAL SOCIETY

Committees and Representatives, 1987

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BULLETIN:	E.C. Lance, J.C. McConnell (Joint Editors) (85-89).
PROCEEDINGS:	W.D. Evans, J. Wiegold (Joint Editors) (86-91).
JOURNAL:	N.G. Lloyd, A.O. Morris (Joint Editors) (83-88).
NEWSLETTER:	C. Kosniowski (84-88).
MONOGRAPHS:	B.E. Johnson (83-87), P.M. Cohn (80-89).
LECTURE NOTES:	J.W.S. Cassels (83-87).
STUDENT MATHEMATICAL TEXTS:	E.B. Davies (83-87).
BOOK REVIEWS EDITOR:	N.H. Bingham (82-90).
OBITUARIES EDITOR:	J.V. Armitage (73-).
RUSSIAN MATHEMATICAL SURVEYS:	E.J.F. Primrose (80-).
T.M.M.S. JOINT EDITOR:	L.W. Longdon (73-).
U.K. PERIODICALS BACKLOG:	W.D. Evans, J. Wiegold (87-).
TECHNICAL EDITORS:	Mrs. A.C. Sharp (Proceedings) (74-), E. Philpott-Kent (Journal) (80-), Mrs. M.M. Lance (Bulletin) (85-).
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EUROMATH COORDINATING COMMITTEE:	P. Vamos (87-91).
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ROYAL SOCIETY/IMA ICMJ SUBCOMMITTEE:	N.L. Biggs (85-88).
BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE MATHEMATICS COMMITTEE:	N.H. Bingham (86-91).
NOTTINGHAM CONFERENCES ORGANISING COMMITTEE:	J.M. Howie (83 87).
TRUSTEE, APPLIED PROBABILITY TRUST:	R.A. Bailey (83-87).
WARWICK MATHEMATICS RESEARCH CENTRE, ADVISORY BOARD:	P.M. Cohn (1st October 84 ~ 30th September 87).
COLLINGWOOD PRIZE COMMITTEE:	P.J. Higgins.



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Cambridge Studies in Advanced Mathematics 13

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GIRLS AND MATHEMATICS

The Royal Society and the Institute of Mathematics and its Applications have jointly published a report adducing disturbing evidence that girls, as a group, are seriously underparticipating and underachieving in mathematics in comparison with their male counterparts. It outlines many reasons for this and makes a number of recommendations. The report, entitled "Girls and Mathematics", is obtainable, price £3, from the Royal Society, 6 Carlton House Terrace, London SW1Y 5AG. A four-page summary is also available, free, from the same address.

The National Association most concerned with gender bias in mathematics is GAMMA (Gender And MatheMatics Association). GAMMA holds day conferences from time to time and produces a newsletter, which is circulated to all members. Several years ago GAMMA received a grant from the EOC for the compilation of a bibliography, sent free to all members on joining. It is hoped to update this in the near future. For further information on individual and institutional subscriptions write to Marion Kimberley, Department of Mathematical Sciences, Goldsmiths' College, New Cross, London, SE14 6NW.

LIBRARY OF THE LONDON MATHEMATICAL SOCIETY AT UNIVERSITY COLLEGE LONDON

By agreement with University College London, their library houses the LMS collection of books and periodicals. The LMS obtains many periodicals on exchange, and many others are purchased by University College; this results in an extensive collection, which is more complete than many other Universities and Libraries can now afford. The LMS also has acquired many books over the years. Under the terms of the agreement, these books and periodicals, together with those belonging to the library of University College, may be borrowed by LMS members under the following conditions:-

(1) LMS members may borrow in person or by postal application and have up to five items on loan at any time. Items borrowed may be retained for as long as the period agreed at the time of the loan but must be returned if recalled for another reader.

(2) Members borrowing in person, whose names are in the current List of Members, need only bring with them adequate means of identification (driving licence, or something similar). Newly elected members should bring with them the letter from the

Society giving notice of their election to the Society.

(3) When an item is borrowed by post, the member is responsible for all postage costs.

(4) Certain categories of material, such as reference books, restricted loan items and current issues of periodicals may not be lent. The loan of rare material is at the discretion of the Librarian of the LMS. Photocopies can be supplied for articles in periodicals that cannot be taken out on loan.

(5) Photocopies of periodical articles will normally be provided to LMS members on request. Photocopying charges (at present 10p per exposure, plus postage) must be paid in advance; members will be invoiced when they make their request.

The LMS Library is housed in the D.M.S. Watson Library. The most appropriate entrance to UCL is in Malet Place, opposite Dillon's Bookshop. The staff member at UCL Library, responsible for LMS Library is Mrs Julia Munro, Tel:01 387 7050 ext 2628.

P.A. Samet, Librarian

We wish to purchase runs and odd Nos. of: Sphinx, Revue Mensuelle des Questions Recreatives, Bruxelles, 1931-39, Journal of Recreational Mathematics, 1968 - Recreational Mathematics Magazine, 1961-64, Sphinx-Oedipe, Nancy, 1906-1932. Mathematical Pie, 1950 - All books published in the series "Libraire du Sphinx" Bruxelles, Rouse-Ball, W.W. "Mathematical Recreations and Essays" all editions from the first (1891) to 11th (1939). Also mathematical books of all kinds from very elementary to advanced texts. Also biographies of mathematicians and physicists. We also sell books in this field, indeed, we specialise in mathematics and will be pleased to receive your list of books wanted and to send you our current catalogue sent post free on request.

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MATHEMATICAL BOOKS

Professor D.B. Scott is prepared to dispose of most of his mathematical books and would be happy to find good homes for them. They are mainly, but not exclusively, on Algebraic Geometry, Algebra and Topology. Most of them are published between the mid 1920's and 1980, in English, French, German and Italian, but there are some earlier classical texts. There are also reports of various International Symposia and lithographed

notes of Lecture Courses delivered in some notable Institutions.

Members who think they might be interested in acquiring any items are invited to write to Professor Scott (at Fir Crest, Rye, E. Sussex, TN31 7NH) for a list of available works. Bids for any of the items will be accepted or rejected without haggling and without reference to any bids which may be received later.

GLASGOW MATHEMATICAL JOURNAL

The Glasgow Mathematical Journal is pleased to announce that, on the initiative of its editors and with the willing co-operation of the University of Glasgow, the ownership of the journal has been transferred to the Glasgow Mathematical Journal Trust, a newly-established independent charitable trust. This new arrangement gives the journal

greater opportunities for development; the first result of it is that the journal can now respond to the number of high-quality papers being submitted to it by increasing in size from two to three issues a year (to be published in January, May and September, starting in 1988).

ANNUAL GENERAL MEETING

The Annual General Meeting of the London Mathematical Society will be held on Friday 20th November 1987 at 3 p.m. in the Meeting Rooms of the Geological Society, Burlington House, Piccadilly, London W1.

At the Annual General Meeting the report of the Treasurer will be read, the Council and Officers of the Society for the coming year will be elected, and Auditors appointed. The election of Council and Officers is governed by Article 9 of the Charter of the Society, by Articles 18, 24 and 31 of the Statutes of the Society, and by By-Law I of the By-Laws of the Society.

A Ballot paper is enclosed which contains a list of those names recommended by the present Council in accordance with By-Law I.6, for election as the Officers and Members-at-Large of the Council for the coming year, when taken together with

those Members-at-Large elected at the last AGM whose terms of office still have one year to run: namely, J.W. Bruce, D.E. Edmunds, D.J.H. Galling, P. Holgate, C. Kosniowski, E.G. Rees.

A member of the Society is entitled to vote in the election by adding to and striking out names on the Ballot paper in such a way that no more than 14 names in all appear on the completed list, of which no more than 6 may appear listed as Members-at-Large (two-year terms).

The completed Ballot paper should either be brought to the AGM or be received, duly signed and addressed to "The Scrutineers, London Mathematical Society, Burlington House, Piccadilly, London W1V 0NL", not less than 36 hours before the time of the meeting.

C.J. Mulvey
Council and General Secretary

PROFESSOR M.S. SHRIKHANDE

Professor Shrikhande, who is on sabbatical from the Central Michigan University, Mount Pleasant, USA, is visiting Britain until the end of 1987. The visit has financial support from the LMS. He will give Lectures at:

Aberystwyth (2 October), Royal Holloway and Bedford New College (20 October), Birmingham

(30 October) and Sussex (6 November). A lecture will also be arranged at Queen Mary College.

For further information contact the departments concerned or Dr V.C. Mavron of the Mathematics Department, University College of Wales, Aberystwyth SY23 3BZ.

LMS 1987 PRIZES

The Polya Prize is awarded to J.H. Conway for his distinguished contributions to coding theory, combinatorics, knot theory, number theory, and the theory of finite groups.

The Senior Whitehead Prize is awarded to R.A. Rankin for his important contributions to number theory and the theory of modular forms.

The Junior Berwick Prize is awarded to P.A. Linnell for his paper entitled "Decomposition of augmentation ideals and relation groups"

Junior Whitehead Prizes are awarded to A.H. Schofield for his work in ring theory, and to C.M. Series for her work on dynamical systems.

C.J. Mulvey
Council and General Secretary.

UNIVERSITE DE GRENOBLE I

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ENCLOSURES

Included with this Newsletter are the following LMS related items: a letter from the Treasurer advising of the 1987/88 subscription rates; an LMS

addressed envelope to return your subscription form; Ballot paper and announcement of Annual Dinner (UK members)

1989 HARDY LECTURER

In Spring 1988 the Council proposes to appoint the 1989 Hardy Lecturer. The Lectureship is awarded to a distinguished overseas mathematician, who then comes to the United Kingdom and Ireland for from four to six weeks, visits a number of universities and addresses the June meeting of the Society, giving in all some twelve lectures during this stay. The visit usually takes place during the months of May and June.

The Council invites members of the Society to submit their views on possible candidates for the award of this lectureship, together with reasons for their choice, confidentially in writing to any member of the General Purpose Committee of the Society (E.C. Zeeman, J.D.M. Wright, C.J. Mulvey, A.R. Pears, D.A. Brannan) by 30th November 1987.

C.J. Mulvey
Council and General Secretary.

DIARY

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

1987

OCTOBER

- 1-2 Singularity Days VIII, Southampton (142)
- 16 LMS meeting on Singularity Theory, London
- 22-22 Protext IV Conference, U.S.A. (140)

NOVEMBER

- 20 LMS Annual General Meeting, London

DECEMBER

- 15-17 Technical Conference, of the British Computer Society, Specialists Group on Expert Systems, Brighton (140)
- 16-21 Transformation Groups, Japan (142)

1988

JANUARY

- 15 LMS Meeting, London

FEBRUARY

- 7-11 Applied Mathematics Conference, Australia (138)
- 19 LMS Meeting, Leeds

MARCH

- 14-18 Second International Conference on Hyperbolic Problems, Federal Republic of Germany (138)
- 18 LMS Meeting, London

MAY

- 19-20 LMS Meeting, Cardiff

JUNE

- 17 LMS Meeting, London
- 20-24 Bail V Conference, China (141)

JULY

- 13-20 1988 St Andrews Colloquim (138)
- 17-27 IXth Congress of the International Association of Mathematical Physics, Swansea (138)
- 25-30 Computational and Applied Mathematics, Belgium (142)

OCTOBER

- 21 LMS Meeting, London

NOVEMBER

- 18 LMS Annual General Meeting, London

For further information, refer to the figure in brackets, which is a cross reference to the LMS Newsletter Number.