

# THE LONDON MATHEMATICAL SOCIETY NEWSLETTER

No.144

November 1987

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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

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## FORTHCOMING SOCIETY MEETINGS

Friday 20 November 1987, Burlington House  
Annual General Meeting  
(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

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## VISIT OF PROFESSOR LIEVEN VANHECKE

Professor Vanhecke will lecture on "Geometry and Symmetry", at Durham University, Department of Mathematics on 17th November at 4.15 pm, at Leeds University, School of Mathematics on

18th November at 2.00pm and Liverpool University, Dept of Pure Mathematics on 20th November at 4.00pm. Professor Vanhecke's visit has been made possible by a travel grant from the LMS.

## THEORY OF ORDINARY AND PARTIAL DIFFERENTIAL EQUATIONS

The tenth Dundee Conference on the Theory of Ordinary and Partial Differential Equations will be held in Dundee, Scotland from Tuesday, 5 July to Friday, 8 July 1988.

The purpose of the Conference is to bring together research workers with a common interest in differential equations and their applications. Particular attention will be focussed on the application of recent developments in the theory of differential equations to biological phenomena, linear and

non-linear waves, and dynamical systems.

Principal speakers will include P.J. Browne, D.S. Jones, R. Leis, H.A. Levine, J.B. McLeod, B.J. Matkowsky, J. Mahwin, R.A. Smith, J. Toland, J. Tyson and W.T. Winfree.

Further information and application forms may be obtained from Dr R.J. Jarvis, Department of Mathematics and Computer Science, The University, Dundee DD1 4HN, Scotland, UK.

## THE INSTITUTE OF MATHEMATICS AND ITS APPLICATIONS

The following conferences and symposia of the IMA are being held in 1988. Mathematical Modelling of Semiconductor Devices and Processes, University of Loughborough, 7th-8th January. Applications of Statistics in Medicine, University College Cardiff, 11th-12th April. Applications of Matrix Theory, University of Bradford, 5th-8th July. Inverse Problems and Imaging Associated with Pattern Recognition, University of Strathclyde, 11th-13th July. Mathematical Structures for Soft-

ware Engineering, Manchester Polytechnic, 13th-15th July. Control Theory Conference, University of Strathclyde, 14th-16th September, IMA/SMAL Conference on Mathematics in Signal Processing, University of Warwick, 13th-15th December.

For further information contact The Institute of Mathematics and its Applications, Maitland House, Warrior Square, Southend-on-Sea, Essex SS1 2JY.

### BRENDAN KEVIN KELLY.

Mr Brendan Kelly who died on 29th July at the age of 74 was a member of the London Mathematical Society from the 16th May 1963. He was also a

member of the Institute of Biology. From 1960 until he retired in 1977 he was Head of the Computer Services Centre of the Medical Research Council.

### EDWIN MAXWELL

Dr Edwin Maxwell, who died on 27th August at the age of 80, was a Fellow of Queen's College, Cambridge for 54 years. He served the college in many ways - as Bursar, for example - but above

all as mathematics tutor. Generations of undergraduates are indebted to him for his careful teaching and his warm personality. He was also the author of such textbooks as "Advanced Algebra".

### ICME-6 1988

The Second Announcement for ICME-6, Budapest, 27th July to 3rd August 1988, has now been finalized by the International Programme Committee. Members who are on the Royal Society's MIS mailing list will be sent a copy. Those who are not on the MIS mailing list may be added by contacting Jill A. Nelson, The Royal Society, 6 Carlton House Terrace, London SW1Y 5AG (Tel: 01-839 5561 ext. 266). Members are reminded that the responsibility for registering at ICME-6 lies with the individual. Being on the MIS mailing list does not

mean that you are registered, but you will be sent the Second Announcement so that you can register.

Application forms for Royal Society travel grants are available from the Executive Secretary, The Royal Society, 6 Carlton House Terrace, London SW1Y 5AG (Tel: 01-839 5561 ext. 222). The closing date for applications for travel grants is 7th December 1987.

### COLLINGWOOD MEMORIAL PRIZE

This prize was established by the London Mathematical Society in memory of Sir Edward Collingwood and is awarded annually to a student of the University of Durham obtaining First Class

Honours in Mathematics and entering a course of postgraduate study. The 1987 prize is awarded to Mr D.C. Hewson of University College who will be a research student at the University of Edinburgh.

### 1988 HEYTING MEETING

An international summer school and conference on Mathematica I Logic and its Applications will be held in September 1988 on the Bulgarian Black Sea Coast. There will be invited lectures and contributed papers on the following topics: recursion theory, modal and non-classical logics, intuitionism

and constructivism, related applications to computer science, life and work of Arend Heyting (1898-1980). For further information contact Dr. L.L. Ivanov, Faculty of Mathematics, bul. Anton Ivanov 5, Sofia 1126, Bulgaria.

### VISIT OF MICHEL MENDES-FRANCE

Professor Michel Mendes-France of the University of Bordeaux will be visiting England for approximately 2 weeks from 18 November. It is expected that he will talk at Imperial College London on 20 November (contact Prof R C Vaughan or Dr W W Chen for details); University of Bristol on 24 November (contact Prof M V Berry); University of Exeter on 26 November (contact Prof R W K

Odoni); and to the North Eastern Universities Pure Mathematics Seminar at Sheffield on 2 December (contact Dr R J Cook). Professor Mendes-France's visit has been made possible by a travel grant from the LMS. All members of the LMS are most welcome to attend these talks but they are advised to confirm details beforehand.



# **LONDON MATHEMATICAL SOCIETY**

## **Annual General Meeting**

Friday 20th November 1987 at 3.00pm

Professor E. Meister (Darmstadt) at 3.10 pm

### **Modern Wiener-Hopf Methods in Diffraction Theory**

Professor D.S. Jones, MBE, FRS (Dundee) at  
5.00 pm

(1987 Naylor Prize Lecture)

### **Time Domain Acoustic Scattering**

Tea will be served at 4.10 pm

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

The Annual Dinner  
will be at the Chuen Cheng Ku Restaurant  
17 Wardour Street, London W1 at 6.30 pm

All interested are very welcome

**PLEASE NOTE EARLY START AT 3.00 PM**

# LONDON MATHEMATICAL SOCIETY

## Notice of General Meeting

There will be a General Meeting of the Society on Friday, 15th January 1988 at 3.30pm in the Meeting Room of the Geological Society, Burlington House, Piccadilly, London, W.1., to consider a proposal by the Council of the Society to delete the existing By-Laws I,7 and I,11 and to substitute those printed below.

The new By-Law I,7 if accepted, will allow Members of the Society to vote in Council Elections only for those individuals who have been duly nominated either by the Council or by Members of the Society, and will ensure that the Scrutineers can verify that all votes are validly cast.

The new By-Law II,3, if accepted, will limit the period of continuous service of a Member-at-Large of Council to six years and of an Officer to ten years.

### *Text of the Proposed By-Law I,7.*

Each Member voting shall make use of the list as a balloting list by striking out those names for which he does not vote. Each Member completing a balloting list shall validate the list both by signing it and by writing his name legibly upon it. Any balloting list not validated in this way shall be held to be null and void.

### *Text of the Proposed By-Law I,II.*

Members of the Council shall be elected to serve for a stated period of one or two years in the case of a Member-at-Large and of one year in the case of an officer. Members of Council shall be eligible for re-election at the end of any period of service, except that no person shall be elected to serve for more than six years consecutively as a Member-at-Large of Council or for more than ten years consecutively in any one Office of Council. Members of Council retiring after such a period of consecutive service shall again be eligible for election after a lapse of one year.

C.J. Mulvey  
Council and General Secretary



# NATIONAL UNIVERSITY OF SINGAPORE

## DEPARTMENT OF MATHEMATICS

Applications are invited for teaching appointments from candidates who are able to teach in one or more of the following areas:

Pure Mathematics  
Applied Mathematics  
Operational Research  
Statistics

Candidates should possess a PhD degree in Mathematics or its equivalent.

Gross annual emoluments range as follows:

Lecturer	S\$27,660 – 57,350
Senior Lecturer	S\$51,950 – 91,070
Associate Professor	S\$79,780 – 109,880

(STG£1 = S\$3.39 approximately)

The commencing salary will depend on the candidates qualifications, experience and the level of appointment offered.

Leave and medical benefits will be provided. Depending on the type of contract offered, other benefits may include: provident fund benefits or an end-of-contract gratuity, a settling-in allowance of S\$1,000 or S\$2,000, subsidised housing at nominal rentals ranging from S\$100 to S\$216 p.m., education allowance for up to three children subject to a maximum of S\$10,000 per annum per child, passage assistance and baggage allowance for the transportation of personal effects to Singapore. Staff members may undertake consultation work, subject to the approval of the University, and retain consultation fees up to a maximum of 60% of their gross annual emoluments in a calendar year.

The Department of Mathematics is a department in the Faculty of Science. There are 8 faculties in the National University of Singapore with a current student enrolment of some 14,000. All departments are well-equipped with a wide range of facilities to enhance the teaching and research activities of staff members. The University is linked to BITNET, an international network that interconnects almost 500 mainframe computers at 200 institutions of higher learning and research centres around the world.

Application forms and further information on terms and conditions of service may be obtained from:

The Director  
Personnel Department  
National University of Singapore  
10 Kent Ridge Crescent  
Singapore 0511

NUS Overseas Office  
Singapore High Commission in London  
5 Chesham Street  
London SW1  
U.K.  
Tel:(01) 235-4562

Enquiries may also be sent through BITNET to: **PERSDEPT @ NUSVM**

# CAMBRIDGE

25% Discount to  
LMS members

## Summing and Nuclear Norms in Banach Space Theory

G. J. O. JAMESON

This textbook is the first to deal, at this level, with summing methods and their applications in Banach space theory. The author gives an introduction to these relatively new techniques and often gives several alternative proofs of the central results.

LMS Student Texts 8

192 pp. 1987 0 521 34134 5 Hc £22.50 net  
0 521 34937 0 Pb £7.50 net

## Varieties of Constructive Mathematics

DOUGLAS BRIDGES and FRED RICHMAN

This is an introduction to, and survey of, the constructive approaches to pure mathematics. The authors emphasise the viewpoint of Errett Bishop's school but other approaches are also treated with comparisons included where appropriate.

LMS Lecture Note Series 97

149 pp. 1987 0 521 31802 5 Pb £10.95 net

## Surveys in Combinatorics 1987

Invited papers for the 11th British Combinatorial Conference

Edited by C. WHITEHEAD

The lectures included in this volume survey many areas of current research activity in combinatorics including graph theory, enumeration and the theory of designs.

LMS Lecture Note Series 123

226 pp. 1987 0 521 34805 6 Pb £15.00 net

## Lie Groupoids and Lie Algebroids in Differential Geometry

K. MACKENZIE

The author presents here for the first time a unified account of the theory of Lie groupoids and Lie algebroids, and the application of this theory to connections with prescribed curvature form.

LMS Lecture Note Series 124

327 pp. 1987 0 521 34882 X Pb £17.50 net

**Cambridge**  
**University Press**



# CAMBRIDGE

## A First Course in Linear Algebra

With Concurrent Examples

A. G. HAMILTON

This is a short, readable introduction to basic linear algebra which includes a large number of worked examples illustrating the ideas and methods covered. The format of the book, with text and relevant examples on facing pages, ensures readability and usefulness to the student.

148 pp. 1987 0 521 32516 1 Hc £22.50 net  
0 521 31041 5 Pb £7.50 net

## Rings and Factorization

DAVID SHARPE

This textbook is an introduction to the concept of factorization and its application to problems in algebra and number theory. With the minimum of prerequisites, the reader is introduced to the notions of rings, fields, prime elements and unique factorization.

111 pp. 1987 0 521 33072 6 Hc £17.50 net  
0 521 33718 6 Pb £7.50 net

*Now in paperback*

## Groups: A Path to Geometry

R. P. BURN

Consisting of a carefully constructed sequence of questions, this book will enable the reader to study all the group theory covered by a conventional undergraduate course.

'There is much here of value both for students and for those who are seeking a refresher course in modern group theory.' *Times Higher Education Supplement*

242 pp. 1987 0 521 34793 9 Pb £9.95 net

## Introduction to the Analysis of Metric Spaces

J. R. GILES

Assuming a basic knowledge of real analysis and linear algebra, this book exposes the student to the axiomatic method in analysis and shows the power of this method. Interest is focused on the interplay between algebra and analysis with finite dimensional spaces discussed early in the text.

Australian Mathematical Society Lecture Series 3

257 pp. 1987 0 521 35051 4 Hc £25.00 net  
0 521 35928 7 Pb £8.95 net

*For further information on all Cambridge Mathematics titles please write to Sally Seed at the address below.*

**Cambridge University Press**

The Edinburgh Building, Shaftesbury Road, Cambridge CB2 2RU

## ANNOUNCEMENT

### ANNALS OF THE INSTITUTE OF STATISTICAL MATHEMATICS

In its new form AISM aims to provide an international forum for open communications among statisticians and research workers working with the common purpose of advancing human knowledge by the proper use of the science and technology of statistics.

AISM will publish the broadest possible coverage of statistical papers of the highest quality. The main emphasis of the publication will be placed on the following activities:

- Establishment of new areas of application;
- Development of new procedures and algorithms;
- Development of unifying theories;
- Analysis and improvement of existing procedures and theories;
- Communication of empirical findings with supporting real data.

The final objective of AISM is to contribute to the advancement of statistics as the science of human handling of information to cope with uncertainties. Special emphasis will thus be placed on the publication of papers that will eventually contribute to changing the practice of statistical information processing.

This journal already has a history of more than 35 years of publishing high quality statistical papers. Several papers published in the journal are frequently used as standard references. Nevertheless the availability of the journal has been limited due to its restricted circulation. Under an expanded international editorial board the journal takes a new style in 1988 that will significantly extend the original aims of the journal and ensure world-wide circulation. The publication and distribution of the journal will be handled by the D. Reidel Publishing Company, P.O. Box 17, 3300 AA Dordrecht, Holland.

Subscription information: Volume **40** (1988), 4 issues.

Dfl. 416,- / \$ 201.00, including postage.

Information for Authors is available from The Editorial Office, AISM, The Institute of Statistical Mathematics, 4-6-7, Minami-Azabu, Minato-ku, Tokyo 106, Japan.



## NONLINEARITY

Society members will be interested to know that the Society's Council is currently negotiating with the Institute of Physics (via its subsidiary, IOP Publishing Ltd; based in Bristol) the establishment of a new journal called **NONLINEARITY**, bridging research in nonlinear mathematics and physics.

The IOP and LMS have jointly recognised the need for such a journal because, over the last 20 years or so, a clear set of phenomena have been identified with almost universal application in mathematical, physical and biological sciences. In these areas, there has also been close interplay between mathematics, theoretical physics and experiment, with each enriching and illuminating the others.

The main criterion for acceptance of papers will be the existence of a significant contribution to the general mathematical and physical understanding of nonlinear systems. Papers from a wide mathematical spectrum will be encouraged ranging from proofs of important theorems to papers presenting ideas and conjectures or numerical or physical experiments of significant physical and mathematical interest. The coverage of *Nonlinearity* will be wide, as indicated by the subject interests of its Editorial Board members, which are listed below.

### Honorary Editors

J D Gibbon (Imperial College, London) Integrable systems

D Rand (Warwick) Pure and applied dynamical systems

### Editorial Board

L Arnold (Bremen) Stochastic dynamics

T B Benjamin (Oxford) Fluid mechanics and experiments

M V Berry (Bristol) Quantum chaos, geometrical methods in the physics of classical and quantum waves

D Campbell (Los Alamos) Nonlinear solid-state and polymer physics

S. Donaldson (Oxford) Topological and geometrical methods in mathematics and mathematical physics

A Fowler (Oxford) Fluid dynamics, mathematical biology, geophysics, convection, turbulence

C Isham (Imperial College, London) Quantum gravity

A Libchaber (Chicago) Fluid and condensed matter experiments

R MacKay (Warwick) Hamiltonian systems

L Nirenberg (Courant Institute, NYU) Pdes

D Olive (Imperial College, London) Gauge and string theories

J Palis (IMPA, Rio de Janeiro) Dynamical systems

R Penrose (Oxford) General relativity, twistors, geometrical physics, quasi-crystals

Y Pomeau (ENS, Paris) Fluid mechanics, turbulence, pattern formation

I Prigogine (Weizmann Institute) Condensed-matter physics, nonlinear dynamics

P Saffman (Cal Tech) Fluid mechanics

A C Scott (DTH, Copenhagen, & Arizona) Biophysics, applied integrable systems

J A Smoller (Michigan) Nonlinear pdes

I Stewart (Warwick) Bifurcation theory and singularities

F Takens (Groningen) Bifurcations of dynamical systems, pure dynamic systems, data analysis

J Toland (Bath) Nonlinear pdes and applications

C Tresser (Nice) Dynamical systems

N O Weiss (Cambridge) Fluid mechanics, convection and mhd

G Wilson (Imperial College, London) Integrable systems

E C Zeeman (Warwick) Catastrophe theory, singularity theory, pure and applied dynamical systems

The negotiations are now fairly far advanced, with the contractual and financial details being examined carefully with the assistance of professional advisers. The Council **has not yet taken any final decision** to go ahead with the venture, but it has authorised the Officers to proceed with detailed negotiations into setting up the details of its academic and business aspects. These negotiations have been complicated by the differing structural arrangements of the LMS and IOPPL, but appear to be proceeding fairly well. I hope to be in a position before the end of the year to supply the LMS Council with the proposed contract between the Society and IOPPL, prepared along the lines Council has already directed; at that point Council will make the final decision.

It is planned that the first issue will appear in approximately February 1988. Initially **NONLINEARITY** will appear quarterly. We plan that **NONLINEARITY** should offer prompt publication of papers of an appropriate standard, especially in view of the pace of developments in its field of coverage. There will be no page charges.

We expect to send a complimentary copy of issue 1 to all Society members on publication, and a complimentary subscription to the whole of volume 1 to all subscribers to the Society's **PROCEEDINGS**. We hope that you will find it an exciting new addition to the Society's range of journals, **and that you will then urge your university library to take out a subscription to NONLINEARITY from 1989 onwards.**

David A Brannan

### LMS FORDER LECTURESHIP

The LMS Council has appointed Professor Sir Michael Atiyah, FRS, to be the 1989 Forder Lecturer, visiting a number of universities in New Zealand in early 1989. The LMS Forder Lectureship, which is awarded biennially, was instituted in conjunction with the New Zealand Mathematical Soc-

iety in 1985, as a result of a generous bequest made to the London Mathematical Society in 1983 by the late Professor H.G. Forder.

C.J. Mulvey  
Council and General Secretary

### LMS POLYA PRIZE

In 1986 the Council of the Society instituted a Polya Prize, to be awarded triennially in recognition of outstanding creativity, of imaginative exposition, and of distinguished contribution to mathematics within the United Kingdom. The Prize was established through the generosity of Mrs. Polya, in memory of her late husband, Professor G. Polya. The award of the 1987 Polya Prize to Professor J.H. Conway was announced in the October Newsletter.

Following a further generous gift to the Society by Mrs. Polya, Council has decided to extend the award of the Polya Prize to all years in which the triennial award of the De Morgan Medal is not considered. The next Polya Prize will therefore be available for award in 1988, concerning which an announcement will be made in the January 1988 Newsletter.

C.J. Mulvey  
Council and General Secretary

### LMS RESEARCH GRANTS

The London Mathematical Society has established a fund from which, for an initial trial period of three years, grants may be made to mathematicians for the support of research work that would otherwise be unlikely to take place and where there is little likelihood of grant aid from other sources. The grants are intended for the assistance of individuals who may have been prevented by routine duties or any like cause from undertaking or completing a research programme. They are not available simply as a replacement for past support from other sources. The grants are intended primarily

for incidental expenses, such as travel and subsistence away from home, but other requests connected with research projects will be considered. Grants from this fund will be of at most £1000 and will only exceptionally exceed £500. The fund will be administered by the Society's Programme Committee. Members who wish to make an application for support from this fund should contact the Society's Administrator, Miss S.M. Oakes, London Mathematical Society, Burlington House, Piccadilly, London W1V 0NL, who will supply an Application Form.

## UNIVERSITY OF LANCASTER CHAIR OF MATHEMATICS

The University wishes to make an appointment to the above post no later than 1 October 1988. The Department of Mathematics is one component within a School of Engineering, Computing and Mathematical Science, and candidates should have an active research programme in an area of applicable mathematics relevant to the interests of the School and the Department.

Salary will be within the Professorial range (present Professorial average £26585).

Further particulars and application form available from the Establishment Office (quoting reference L370) University House, Bailrigg, Lancaster LA1 4YW where applications (8 copies) should be received by 17 November 1987.



## EDINBURGH MATHEMATICAL SOCIETY

Meetings of the Edinburgh Mathematical Society for the 1987-88 session are, 13 November (Glasgow) Professor A.J. Pritchard; 11 December (Edinburgh) Dr W.S. Kendall; 15 January (Edinburgh) Professor R.W. Ogden; 12 February (Edinburgh) Dr K.J. Falconer; 11 March (Dundee) Dr G.S. Hall; 6 May (Stirling) Dr R.B. Allenby and 3 June (Aber-

deen) Professor S.K. Donaldson.

Further information may be obtained from C.J. Shaddock, Honorary Secretary, Edinburgh Mathematical Society, Department of Mathematics, University of Edinburgh, Mayfield Road, Edinburgh EH9 3JZ.

## THE ROYAL SOCIETY

The Royal Society's programme of meetings for 1988 includes two of specific interest to mathematicians.

19-20 October 1988 a discussion meeting on Fractals in the Natural Sciences organized by Professor M. Fleishmann, FRS and Dr D. Tildesley.

8-9 December 1988 a discussion meeting on

Physics and Mathematics of Strings organized by Sir Michael Atiyah, FRS, Dr J.R. Ellis, FRS, Professor M.B. Green and Dr C.H. Llewellyn-Smith, FRS.

For further information write to the Scientific Meetings Secretary, The Royal Society, 6 Carlton House Terrace, London SW1 (Telephone 01-839 5561 ext 278).

## SÉMINAIRE NICOLAS BOURBAKI

There will be a seminar on 14 and 15 November 1987 at the Institut de Henri Poincaré, 11 Rue P. et M. Curie, Paris 5e, France. The speakers on Satur-

day 14 will be J.-P. Serre and G. Henniart and on Sunday 15 Y.-C. Yoccoz, H. Attouch and P. Cartier.

## LMS ELECTION PROCEDURES

Following the 1986 Council Elections, the Scrutineers appointed at the Annual General Meeting recommended to Council a number of changes which they considered desirable in the procedures under which the Society elects its Officers and Council. These recommendations were considered by the incoming Council, which decided to propose that certain amendments be made to the Society's By-Laws concerning the Council elections. Notice of a General Meeting called for January 1988 to consider these proposals is contained elsewhere in this Newsletter.

The principal change proposed is that which would allow votes to be cast only for individuals who have been nominated in accordance with the By-Laws, either by the Council or by Members of the Society. A Member voting would also be required to write his name on the Ballot Paper, as well as signing it.

The other amendment proposed concerns the By-Law which had always been intended to limit the period of service of a Member-at-Large of Council to six years. Whatever the intention may have been, the existing By-Law could be interpreted otherwise, occasionally allowing the period of service to extend to seven years. The amendment proposed would clarify the situation, stating explicitly the presumed intention of the By-Law.

Since the General Meeting to consider these proposals will not take place until after the 1987 Council Elections, the existing By-Laws will apply to those elections. However, it is hoped that thereafter the changes proposed will ensure that the task of the Scrutineers in determining the results of the elections within the time available at the Annual General Meeting will be simplified considerably.

C.J. Mulvey  
Council and General Secretary

## GRANTS IN SUPPORT OF PUBLIC UNDERSTANDING OF SCIENCE

Grants are available for new or continuing activities or initiatives directly concerned with the promotion of the public understanding of science (including mathematics, technology and engineering). Applications should be made as soon as possible on forms obtainable from the Executive Secretary (Ref:JCS), The Royal Society, 6 Carlton House Terrace, London, SW1Y 5AG. (Tel: 01-839 5561, ext. 219).

Applicants will be asked to show clearly how their proposal relates to the public understanding of science, to submit a statement of the financial basis of their proposal, to specify any related schemes in the area of the public understanding of

science of which they are aware and to give an assurance that the grant applied for is not for an activity in direct competition or conflict with existing schemes.

All applicants must be resident in the UK. The maximum sum available for an individual grant is £2500 and allocations will often be less than this amount. The closing date for applications is 1 December 1987: late applications cannot be considered.

The Council of the Royal Society is advised on suitable recipients for grants by the Committee on the Public Understanding of Science (COPUS).

## LMS 1987 HONORARY MEMBERS

At the Society Meeting on 19th June 1987, Professors I. Kaplansky and S.P. Novikov were elected Honorary Members of the London Mathematical Society, in recognition of their contri-

butions respectively to algebra and functional analysis, and to geometric and algebraic topology.

C.J. Mulvey  
Council and General Secretary.

## DIARY

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

### 1987

#### NOVEMBER

- 11, 18 & 25 Gresham Geometry Lectures, City of London School (143)  
20 LMS Annual General Meeting, London

#### DECEMBER

- 15-17 Technical Conference, of the British Computer Society, Specialists Group on Expert Systems, Brighton (140)  
16-18 Restructuring Higher Education, Birmingham (143)  
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)  
24-30 Radicals - Theory and Applications, Japan (143)  
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.