

# **LONDON MATHEMATICAL SOCIETY**

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Professor W. Browder (Princeton)

## **GROUP ACTIONS ON MANIFOLDS AND THE FUNDAMENTAL GROUP**

Dr. R. M. W. Wood (Manchester)

## **THE ROLE OF THE HOPF MAP $H:S^3 \rightarrow S^2$ IN THE DEVELOPMENT OF HOMOTOPY THEORY**

**FRIDAY, 13th October, 1978, at 3.30 p.m.**

**Geological Society's Meeting Room,  
Burlington House,  
Piccadilly, London, W1V 0JU**

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All interested are very welcome

Tea will be served at 4.30 p.m.

# LMS NEWSLETTER

No. 52

October 1978

## DATES OF SOCIETY MEETINGS

Friday, 13 October 1978, Burlington House.

Friday, 17 November 1978, Burlington House, Annual General Meeting and Presidential Address.

Friday, 19 January 1979, Newcastle, Joint meeting with E.M.S.

Friday, 16 March 1979, Burlington House, Naylor Lecture.

Friday, 18 May-Saturday, 19 May 1979, Birmingham.

Friday, 15 June 1979, Burlington House, Hardy Lecture.

London meetings will be held in the Geological Society's Rooms, Burlington House, Piccadilly. Council meetings will be held in conjunction with all the above meetings except that on 18 May 1979. Council will meet in London on 11 May 1979.

D. B. SINGMASTER

## TRANSACTIONS OF THE MOSCOW MATHEMATICAL SOCIETY

The London Mathematical Society has recently concluded an agreement with the American Mathematical Society whereby the TMMS will become a joint publication. Consequently LMS members, both individual and institutional, will be entitled to a 50% reduction on the subscription price. Subscriptions at the rate of \$31.50 for each of the 1978 and 1979

volumes should be sent to the American Mathematical Society, P.O. Box 6248, Providence, R.I. 02940, mentioning LMS membership. Members who have already subscribed to the 1978 volume at the full price of \$63 may ask for a refund or, more conveniently, ask for the over-payment to be treated as their subscription to the 1979 volume.

I. M. JAMES

## ARCHIVES OF THE SOCIETY

In the past few years, several Council members have been interested in the archives of the Society and of the previous Spitalfields Mathematical Society (1717-1845). It appears that all our Minute Books and formal documents are in Burlington House, but there is very little in the way of more ephemeral material. (Such material may have been lost in the bombing and dispersal of University College during the war.) We would be interested to hear from anyone who has material relating to the Society. In particular, we would be grateful for notices of meetings, agendas for council, correspondence of officers and, especially, copies of Membership Lists from before 1965 or anything at all from before 1945. We would also like any information on the

Minute Books of the Spitalfields Society which were lost between 1932 and 1951, particularly from anyone involved in searching for them in 1951-53. Information on the location of any other material which belonged to the Spitalfields Society (excepting that presently with the Society or the Royal Astronomical Society) would be appreciated. We would be pleased to hear from historians of mathematics who might be interested in the history of the Society.

P. McMULLEN  
(Librarian and Archivist)

D. B. SINGMASTER  
(Meetings and Membership Secretary)

D. G. KENDALL  
(Photographic Archivist)

## COLLINGWOOD PRIZE

The Collingwood Prize which has been given by the London Mathematical Society in memory of Sir Edward Collingwood has been awarded this year to Mr. S. D. Casey, University College, University of

Durham. Casey obtained a First Class Honours Degree in Mathematics at the University of Durham and is proceeding to the University of Warwick to work for the degree of Ph.D.

T. J. WILLMORE

## PERSONAL ITEMS

Professor M. F. Atiyah was recently elected a Foreign Associate of the U.S. National Academy of Sciences.

Dr. M. S. P. Eastham, Chelsea College, has been awarded the biennial Keith Prize of the Royal Society of Edinburgh for 1977.

Professor Harry R. Pitt, retiring Vice-

Chancellor of the University of Reading, was made a knight bachelor in the Queen's Birthday Honours List.

Professor G.-C. Rota has been recently elected a Fellow of the American Association for the Advancement of Science.

D. B. SINGMASTER

## BACKLOG OF BRITISH JOURNALS

This information is published with the co-operation of the respective editorial boards. For the sake of uniformity, the same headings have been adopted as in the statements published biennially by the AMS Notices. The following explanatory statements are also so copied:

*Backlog.* This is an estimate of the number of printed pages which have been accepted but are not necessary to maintain copy editing and printing schedules.

*Waiting times.* The quartiles  $Q_1$  and  $Q_3$  are presented to give a measure of dis-

persion. They do not include misleading extremes, the result of unusual circumstances arising in part from the refereeing system.

Waiting times are measured in months from receipt of manuscript in final form to receipt of final publication at the library of Liverpool University. When a paper is revised, the waiting time between an editor's receipt of the final revision and its publication may be much shorter than is the case otherwise, so these figures are low to that extent.

C. T. C. WALL

JOURNAL	No. of issues per year	Approx. no. of pages per year	Backlog 30/6/78	Estimated time for paper submitted currently to be published (in months)	Observed waiting time in latest publ. issue (months)		
					$Q_1$	Median	$Q_3$
Cambridge Phil. Soc. Math. Proc.	6	1088	70	9	7	7	8
Edinburgh Math. Soc. Proc.	3	240	40	8-12	8	10	12
Glasgow Math. Journal	2	200	75	14-20	20	21	22
London Math. Soc. Bull.	3	336	89	5-9	12	13	14
London Math. Soc. Jour.	6	1152	100	7-11	9	10	12
London Math. Soc. Proc.	6	1152	590	20	14	20	23
Mathematika	2	300	NR	NR	10	11	12
Oxford Quart. J. of Math.	4	512	176	12-18	11	12	14
Royal Society of Edinburgh Proc. A (Math.)	8	1400	Nil	9-12	11	13	14

NR means that no response was received to a request for information.

## EDINBURGH MATHEMATICAL SOCIETY

The following meetings have been arranged for the session 1978-79.

1978

20th October (Edinburgh), A.G.M. and Presidential Address of A. D. Sands.

10th November (Strathclyde), J. B. McLeod

1st December (Edinburgh), I. N. Sneddon: a meeting in memory of A. Erdélyi.

1979

19th January (Newcastle), Joint meeting with L.M.S.

9th February (Heriot-Watt), P. M. Neumann.

2nd March (Dundee), P. Chadwick.

4th May (Stirling), B. Bollobás.

2nd June (St. Andrews), E. B. Dynkin—The Hardy Lecturer (provisional).

Further details of these meetings and of membership of the E.M.S. can be obtained from the Society's Secretaries: T. A. Gillespie (meetings) and J. D. P. Meldrum (membership), The Mathematics Department, James Clerk Maxwell Building, King's Buildings, Mayfield Road, Edinburgh EH9 3JZ.

T. A. GILLESPIE

## DUBLIN MATHEMATICAL SYMPOSIUM

A Mathematical Symposium will be held in the Dublin Institute for Advanced Studies on 21-22 December, 1978. The provisional list of speakers includes T. Laffey, R. Bates, N. O. Murchadha,

T. Hurley, J. J. Miller, A. G. O'Farrell, M. L. Newell and D. McQuillan. Further details can be obtained from J. T. Lewis, School of Theoretical Physics, 10, Burlington Road, Dublin.

London Mathematical Society Monographs  
Series Editors: P. M. Cohn and G. E. H. Reuter  
No. 11

## Extremal Graph Theory

B. Bollobas

September/October 1978, approx. 450 pp., £19.50/\$40.35 0.12.111750.2

Extremal graph theory is one of the fastest-growing areas of mathematics, and has now developed methods relevant to problem-solving in such diverse fields as economics, computer science and optimization theory. However, because of the recent proliferation of papers on the subject, many specialists are unable to keep track of all the published results, and thus run into problems of duplication. This book, originally a course of lectures delivered to graduate students at the University of Cambridge, aims to improve the situation with a comprehensive yet concise treatment of extremal graph theory.

No. 12

## Spectral Theory of Linear Operators

H. R. Dowson

May/June 1978, xii + 422 pp., £20.00/\$39.00 0.12.220950.8

*Spectral Theory of Linear Operators* presents some of the most recent developments in the field for the pure mathematician with a basic working knowledge of functional analysis and operator theory. The text first develops general spectral theory, then moving on to a simplified presentation of the spectral theory of compact operators, and the theory of Riesz operators. Hermitian operators, required for later parts of the book, are discussed in a brief section, and the longest section of the book is devoted to the theory of prespectral operators, with several proofs of the basic theorems in forms significantly simpler than those found in existing textbooks.

No. 13

## Rational Quadratic Forms

J. W. S. Cassels

November/December 1978, xvi + 414 pp., £17.50/\$36.25 0.12.163260.1

This monograph presents the main themes of the theory of quadratic forms at a level that can be appreciated by a wide variety of readers. The first half of the book develops the classical theory of rational and integral equivalence for quadratic forms with rational or rational integral coefficients. Full use is made of the insight and clarity provided by the use of  $p$ -adic numbers and of Witt's theory of quadratic spaces. The second half contains treatments of spinor genera, of reduction theory and automorphs, and of the composition of binary forms.

## Academic Press

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