

# **LONDON MATHEMATICAL SOCIETY**

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## **TWO-DAY MEETING AT BIRMINGHAM 18-19 May 1979**

### **Friday 18th May**

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| 2.00 p.m. | Opening Session  |
| 2.15 p.m. | Professor G. Glauberman<br>"Simplifying the foundations of simple finite group theory" |
| 3.30 p.m. | Tea  |
| 4.00 p.m. | Professor E. Looijenga<br>"The singularities of degenerate K3 surfaces"                |
| 5.15 p.m. | Dr. G. P. Scott<br>"Ends, groups and the torus theorem"                                |
| 7.00 p.m. | DINNER   |
| 9.00 p.m. | Discussion: Has T.V. a role in undergraduate mathematics?                              |

### **Saturday 19th May**

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|------------|--|
| 9.30 a.m.  | Professor A. Katok<br>"Ergodic theory and differential geometry"                   |
| 11.00 a.m. | Coffee   |
| 11.30 a.m. | Professor A. Joseph<br>"Goldie rank and nilpotent orbits in semisimple Lie groups" |
| 2.00 p.m.  | FILMS  |

**Lectures will take place in  
Room A in the Watson Building  
University of Birmingham**

Further information appears overleaf

# LMS NEWSLETTER

No. 59

May 1979

## DATES OF SOCIETY MEETINGS

Friday, 18 May–Saturday, 19 May 1979, Birmingham. See front page.

Friday, 15 June 1979, Burlington House. E. B. Dynkin (Hardy Lecturer) and A. M. Macbeath.

Friday, 12 October 1979, Burlington House.

Friday, 16 November 1979, Burlington House. Annual General Meeting.

Friday, 18 January 1980, Burlington House.

Friday, 21 March 1980, Burlington House.

Friday, 16 May 1980 (Country Meeting?).

Friday, 20 June 1980, Burlington House. Whitehead Lecture.

Council meetings will be held in conjunction with all these meetings except that on 18 May 1979. Council will meet on 11 May 1979.

Council meetings will be in Burlington House. D. B. SINGMASTER

## TWO-DAY MEETING AT BIRMINGHAM

The academic programme for this meeting appears overleaf.

**Dinner.** Tickets for dinner will cost £5. Payment must be made at least one week in advance, preferably by cheque payable to "The University of Birmingham".

**Travel Information. Rail.** There is a rail link direct to the University from New Street Station with a service every 15 minutes.

**Car.** The University is situated just off the Bristol Road (A38) about 2½ miles from the City Centre. The A38 can be reached from Junction 6 on the M6 ("Spaghetti junction") or from Junction 4 on the M5.

**Accommodation.** The following hotels are within walking distance of the University:

Bristol Court Hotel, 248–250 Bristol Road, Birmingham B5 7SL. Telephone: 021–472 0078.

The Charlton, 412 Bristol Road, Birmingham 15.

The Wentsbury Hotel, 21 Serpentine Road, Selly Park, Birmingham B29 7HU. Telephone: 021–472 1258.

The Copperfield Hotel, 60 Upland Road, Selly Oak, Birmingham B29 7JS. Telephone: 021–472 8344.

If in difficulties please address enquiries to: B. J. Philp, Pure Mathematics Department, University of Birmingham, P.O. Box 363, Birmingham B15 2TT.

## HARDY LECTURER—1979

The Society's Hardy Lecturer for 1979 is Professor E. B. Dynkin of Cornell University. Professor Dynkin will be in the British Isles from 21 May to 27 June and will be speaking as shown on the following schedule. A more complete schedule will appear in the next *Newsletter*.

University/Society	Topic	Date	Time	Place
Sheffield	4	24 May	4.00	D59, Hicks Building (Joint Manchester–Sheffield Seminar)
Hull	2	25 May	4.00	Dept. of Pure Mathematics
Liverpool	3	30 May	4.00	Mathematics Building
EMS	5	2 June	4.30	Mathematics Institute, St. Andrews
Swansea	1	6 June	2.30	Dept of Pure Mathematics
Cork	3	8 June	11.30?	Mathematics Department
Cambridge	5	13 June	5.00	Room A, Arts School, Benet Street
LMS	*	15 June	5.00	Burlington House, London
Oxford	2	19 June	5.00?	Mathematical Institute
Imperial College	1	21 June	5.30	213 Huxley Building
RSS	3	22 June	5.00	London School of Hygiene and Tropical Medicine



1. Statistical Physics and the Probabilistic Theory of Potential
2. Ergodic Theory and Boundary Theory of Markov Processes
3. An Application of Statistics to Mathematics: Sufficient Statistics and Extreme Points
4. A Mathematical Model of Economic Equilibrium under Uncertainty
5. Time-Reversibility of Stochastic Processes and Duality in Probability Theory and Analysis

\* Markov Processes and Random Fields

D. B. SINGMASTER

## PROGRAMME COMMITTEE

Council has established a programme committee to plan the Society's programme of meetings and conferences. This committee has also taken over the business of the former conference support committee.

During its existence the conference support committee made grants as follows:

Oxford, permutation groups, 7-11 May 1976 .. ..	£150
Oxford, logic summer school, 19-30 July 1976 .. ..	£150
Newcastle, transformation groups, 4-11 August 1976 .. ..	£150
Newcastle, surgery & group actions, 3-9 July 1977 .. ..	£150
Oxford, topology symposium, 27-29 June 1978 .. ..	£400

Edinburgh, near-rings,

6-12 August 1978 .. .. £150

Bedford College, model theory,

14-16 December 1978 .. .. £100

At its first meeting, the programme committee agreed a procedure for approving grants. Any member of the Society who is organising a conference may apply for an L.M.S. grant: applications should be addressed to C. T. C. Wall. Grants for 1979 have been approved, and will be announced when negotiations with the organisers are concluded.

The programme committee has also drawn up a list of suitable speakers to address the Society. Any suggestions for additions to this list will be welcome, and should be addressed to D. B. Singmaster.

## MEMBERSHIP LIST

Any member wishing to be listed in the next Membership List should have returned the Membership List Information Form which was circulated with the Subscription

Form in November. If you did not receive a form or did not return one, please write to me for one (if you wish to be listed).

D. B. SINGMASTER

## EXCHANGES OF STAFF BETWEEN UNIVERSITIES

Many mathematics departments in British universities face the prospect of having no new staff for the foreseeable future. The Council is considering whether the Society could help to avoid stagnation by operating a scheme for (short term) exchanges of staff. At present, it looks as if the Society would do little more than advertise the

possibility and help interested parties to make contact. Anyone who would like to see such a scheme set up is asked to write to me at the Department of Pure Mathematics, University of Sheffield, so that the Council can gauge how much interest it would generate.

J. S. PYM

## TRANSLATOR WANTED

We are just preparing a completely revised edition of our extraordinarily successful reference book Bronstein/Semendyayev: A Guidebook to Mathematics and are looking for a mathematician/translator from German into English. Please contact

**Harri Deutsch Publishers**  
Gräfstrasse 47  
D 6000 Frankfurt/M. 90

## SCOTTISH MATHEMATICAL COUNCIL

The above Council has recently published a report entitled "The Training and Professional Life of Teachers of Mathematics in Scotland". This is based partly on a report published in November 1976 by the Royal Society, but it takes account of the special features of education in Scotland.

Copies may be obtained (free of charge) from the Council's Chairman, E. M. Patterson, Department of Mathematics, University of Aberdeen, The Edward Wright Building, Dunbar Street, Aberdeen AB9 2TY.

## ROLLO DAVIDSON TRUST

The Trustees announce that they have awarded a Rollo Davidson Prize to Dr. F. P. Kelly, Cambridge, for his work on stochastic processes of interaction and flow.

This is the fourth award made by the

Trust, which is supported by royalties associated with the two books *Stochastic Analysis* and *Stochastic Geometry* published as a memorial tribute to Rollo Davidson in 1973 and 1974.

D. G. KENDALL

## STOCHASTIC PROCESSES AND APPLICATIONS

A conference on Stochastic Processes and their Applications will be held on 6-10 August 1979 at Northwestern University, Evanston, Illinois. Invited speakers include: D. Aldous (Cambridge), E. Arjas (Oulu), J. L. Doob (Urbana), R. Durrett (Los Angeles), A. Dvoretzky (Jerusalem), R. K. Gettoor (San Diego), B. V. Gnedenko (Moscow), D. Griffeath (Madison), H. Gzyl (Caracas), M. Harrison (Palo Alto), D. L. Iglehart (Palo Alto), J. Jacod (Rennes), O. Kallenberg (Goteborg), A. Karr (Balti-

more), H. Kunita (Tokyo), A. W. Marshall (Vancouver), T. Maruyama (Misima), M. Metivier (Paris), J. Neveu (Paris), Yu. A. Rozanov (Moscow), E. Seneta (Canberra), A. N. Shirayev (Moscow), A. V. Skorokhod (Moscow), J. H. A. de Smit (Enschede), L. D. Stone (Philadelphia) and M. Yor (Paris).

All enquiries concerning the conference should be addressed to E. Çinlar, Technological Institute, Room 1744, Northwestern University, Evanston, Illinois 60201, U.S.A.

## AUSTRALIAN NATIONAL UNIVERSITY

### Postdoctoral Fellowship

THE AUSTRALIAN NATIONAL UNIVERSITY invites applications for a two-year research Postdoctoral Fellowship in the Department of Mathematics, Research School of Physical Sciences. The Department would prefer to make an appointment in the areas of partial differential equations, Lie groups, differential geometry or algebraic geometry, but applications from candidates in any field of Pure Mathematics will be considered. Salary will be according to qualifications and experience at a fixed point between \$A15,786-\$A20,606. Current exchange rates are: \$A1 : 56NP : \$US1.13. Reasonable travel expenses are paid. Applications in duplicate should be lodged with the Registrar, Australian National University, P.O. Box 4, Canberra ACT 2600, Australia by 28 APRIL 1979.



## BOOKS RECEIVED FOR REVIEW IN THE *BULLETIN*

- Magnetic Field Generation in Electrically Conducting Fluids:** K. Moffat: pp. 343, £15·50. (Cambridge University Press.)
- Waves in Fluids:** J. Lighthill: pp. 504, £17·50. (Cambridge University Press.)
- Mathematics, Science & Epistemology:** I. Lakatos: pp. 285, £10·50. (Cambridge University Press.)
- The Methodology of Scientific Research Programmes (Philo. Papers Vol. 1):** I. Lakatos: pp. 250, £9. (Cambridge University Press.)
- Trigonometric Series:** A. Zygmund: pp. 364, £25. (Cambridge University Press.)
- Degree Theory:** N. G. Lloyd: pp. 172, £8·50. (Cambridge University Press.)
- An Introduction to Categories, Homological Algebra & Sheaf Cohomology:** Strooker: pp. 246, £12·50. (Cambridge University Press.)
- A Course on Group Theory:** J. S. Rose: pp. 310, £12/4·95. (Cambridge University Press.)
- Multiple-Conclusion Logic:** D. Shoesmith and T. Smiley: pp. 396, £15. (Cambridge University Press.)
- Continuous Crossed Products and Type III Von Neumann Algebras:** A. Van Daele: pp. 68, £3·95. (Cambridge University Press.)
- Logic for Mathematicians:** A. Hamilton: pp. 224, £12·50/4·95. (Cambridge University Press.)
- Vectors in 3-Dimensional Space:** J. Chisholm: pp. 293, £15/4·95. (Cambridge University Press.)
- A First Look at Numerical Functional Analysis:** W. W. Sawyer: pp. 186, £9/4·25. (Oxford University Press.)
- Numerical Solution of Partial Differential Equations: Finite Difference Methods:** G. D. Smith: pp. 304, £9/4·95. (2nd ed.) (Oxford University Press.)
- Invariant Forms on Grassman Manifolds:** W. Stoll: pp. 112, £9/3·35. (Princeton University Press.)
- The Motion of a Surface by its Mean Curvature:** K. A. Brakke: pp. 252, £6·75. (Princeton University Press.)
- Foods Webs and Niche Space:** J. Cohen: pp. 189, £9·40/465. (Princeton University Press.)
- Notes on Crystalline Cohomology:** P. Berthelot and A. Ogus: pp. 249, £5. (Princeton University Press.)
- Infinite Loop Spaces:** J. F. Adams: pp. 214, £9·40/3·65. (Princeton University Press.)
- Introduction to Set Theory (Series of Monographs/Textbooks/Vol. 45):** K. Hrbacek and T. Jech: pp. 200, Sw.Fr. 35. (Marcel Dekker Inc.)
- Homology and Cohomology Theory: An Approach Based on Alexander Spanier Cochains (Series of Monographs/Textbooks/Vol. 46):** W. S. Massey: pp. 432, Sw.Fr. 80. (Marcel Dekker Inc.)
- Introduction to Modern Algebra (Series of Monographs/Textbooks/Vol. 47):** M. Marcus: pp. 512, Sw.Fr. 52. (Marcel Dekker Inc.)
- Vector and Tensor Analysis (Series of Monographs/Textbooks/Vol. 48):** E. C. Young: pp. 544, Sw.Fr. 98. (Marcel Dekker Inc.)
- Hyperspaces of Sets (Series of Monographs/Textbooks/Vol. 49):** Sam B. Nadler Jr.: pp. 728, \$45 (Marcel Dekker Inc.)
- Finite Element Galerkin Methods for Differential Equations (Pure/Appl. Maths. Notes, 34):** G. Fairweather: pp. 280, Sw.Fr. 58. (Marcel Dekker Inc.)
- Complex Analysis (Proc. of SUNY Brockport Conf.):** S. S. Miller: pp. 192, Sw.Fr. 52. (Marcel Dekker Inc.)
- Representation Theory of Algebras (Proc. of Philadelphia Conf.):** R. Gordon: pp. 480, Sw.Fr. 92. (Marcel Dekker Inc.)
- Semisimple Lie Algebras (Lecture Notes Pure/Appl. Maths., Vol. 38):** M. Goto and F. D. Grosshans: pp. 496, Sw.Fr. 98. (Marcel Dekker Inc.)
- Theoretical Immunology (Immunology Series, Vol. 8):** G. Bell, A. S. Perelson and G. H. Pimbley Jr.: pp. 660, Sw.Fr. 128. (Marcel Dekker Inc.)
- Algebra of Proofs:** M. E. Szabo: pp. 324, \$43·50. (North Holland Pub. Co.)
- Undirectional Wave Motions:** H. Levine: pp. 494, \$69·75. (North Holland Pub. Co.)
- Advances in Graph Theory:** B. Bollobas: pp. 295, \$48. (North Holland Pub. Co.)
- Generalized Recursion Theory II:** J. E. Fenstad, R. O. Gandy and G. E. Sacks: pp. 466, \$42·25. (North Holland Pub. Co.)

- Interpolation Theory, Function Spaces, Differential Operators:** H. Triebel: pp. 512, \$66.75. (North Holland Pub. Co.)
- Some Classes of Singular Equations:** S. Prossdorf: pp. 365, \$53.25. (North Holland, Pub. Co.)
- Combinatorics I-II:** A. Hajnal, V. T. Sos: pp. 1220, \$145.50. (North Holland Pub. Co.)
- Topics in Group Theory and Computation:** M. P. J. Curran: pp. 118, £5.80. (Academic Press Inc.)
- Spectral Theory of Linear Operators:** H. R. Dowson: pp. 420, £20. (Academic Press Inc.)
- Locally Solid Riesz Spaces:** C. Aliprantis, O. Burkinshaw: pp. 198, £10.95 (Academic Press Inc.)
- Extremal Graph Theory:** B. Bollobas: pp. 488, £18.50. (Academic Press Inc.)

## UNIVERSITY OF LONDON

### GOLDSMITHS' COLLEGE

New Cross, London SE14 6NW  
School of Science and Mathematics  
Mathematics Department

Applications are invited for the following posts:

1. **Lecturer in STATISTICS** with Ph.D. and published work to undertake teaching at undergraduate level with the opportunity to develop departmental research in Statistics. Required for 1st September, 1979.
2. **Lecturer in MATHEMATICS** with Ph.D. and research publications, to undertake teaching in pure mathematics at undergraduate level. Required for 1st September, 1979.
3. **Temporary Half-time Lecturer in Mathematics for one year only** (whilst permanent holder is on study leave) to teach undergraduate courses in Mathematics from 1st September, 1979 to 31st August, 1980.

Salary on scale £4,575 × 12 increments to £7,539 per annum inclusive of London allowance.

Write for further particulars (stating clearly which post) to the Personnel Officer to whom applications should be submitted by **27th April, 1979**.