

LONDON MATHEMATICAL SOCIETY

PROFESSOR H. HALBERSTAM
(Nottingham)

**SIEVES IN NUMBER THEORY:
A COMING OF AGE**

PROFESSOR S. J. TAYLOR
(Liverpool)

**A CONTINUOUS ANALOGUE OF THE PRIME
NUMBER THEOREM**

FRIDAY 18 NOVEMBER 1977, at 3.30 p.m.

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

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

LMS NEWSLETTER

No. 43

November 1977

DATES OF SOCIETY MEETINGS

Friday, 21 October 1977, Burlington House. Film meeting.

Friday, 18 November 1977, Burlington House, Annual General Meeting.

Friday/Saturday, 16/17 December 1977, Trinity College, Cambridge, Hardy Centenary Meeting.

Friday 20 January 1978, Burlington House.

Friday, 17 March 1978, Burlington House.

Friday/Saturday, 19/20 May 1978, Gregynog, Powys, weekend meeting.

Friday, 16 June, 1978 Burlington House,

Whitehead meeting.

Friday, 20 October 1978, Burlington House.

Friday, 17 November 1978, Burlington House, Annual General Meeting.

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 London meetings. Council will also meet on 12 May 1978.

D. B. SINGMASTER

ANNUAL GENERAL MEETING

The Annual General Meeting of the London Mathematical Society will be held on Friday, 18 November 1977, in the Geological Society's Lecture Room, Burlington House, Piccadilly. London W1V 0NL, at 3.30 p.m.

The report of the Treasurer will be read.

The Meeting is empowered by Article 18 of the Statutes of the Society and by By-Law 1, 10 of the By-Laws of the Society to elect twenty Members to form a Council and Officers for the ensuing year. The Meeting will also appoint Auditors.

A list of those Members who have been recommended by the present Council (acting under this Article and under By-Laws 1, 2, 3, 4) for election as the Council and Officers for 1977-78 appears below. *Under By-Law 1, 7 you have power*

to add any eligible names that are not already contained in this list. Such names as you do not vote for should be struck out until the whole number, including the Officers, is reduced to twenty; but the list must contain at least two names of Members not on the Council for the session 1976-77. The Officers must include a President, Vice-Presidents, a Treasurer, a Librarian, and a Secretary or Secretaries.

Council shall appoint Editors of the *Proceedings, Journal and Bulletin* who shall be Members of the Society and shall take charge of these publications under the direction of the Council. Council may appoint one or more Assistant Editors for any of these publications, who shall also be Members of the Society.

D. A. BRANNAN

ANNUAL DINNER

The Annual General Meeting on Friday, 18 November, will be followed by the Annual Dinner at the Piccadilly Hotel, Piccadilly, at 6.45 for 7.15 p.m. The hotel is on the north side of Piccadilly, between Burlington House and Piccadilly Circus. As usual members may bring guests. This year, we are trying a buffet-style dinner so that people can circulate more freely,

but there will also be seating available. I will appreciate opinions on this at and after the dinner. The cost of the dinner will be £5.00, including wine with the meal. Other drinks can be purchased individually. Members who wish to come to the Dinner should complete the form in this *Newsletter* and return it to me with their remittance by 11 November.

D. SINGMASTER

HARDY CENTENARY MEETING

The London Mathematical Society is holding a meeting in Cambridge on the afternoon of Friday, 16 December, and the morning of Saturday, 17 December 1977, to commemorate the centenary of the birth of G. H. Hardy. There will be the following lectures and addresses:

Addresses

Prof. L. S. Bosanquet: "The discovery of Tauberian theorems".

Prof. Sir Edward Maitland Wright: "Some aspects of Hardy's work in the theory of numbers".

Lectures

Prof. A. Baker: "Diophantine analysis and transcendence".

Prof. L. Carleson: "Maximal functions".

Prof. W. K. Hayman: "When does a function tend to infinity along a path?"

Prof. J. -P. Kahane: "Trigonometric series".

Prof. A. Selberg: "Zeros on the critical line: a survey".

The meeting will commence at 2 p.m. on 16 December, in the Mill Lane Lecture

Rooms, Cambridge. There will be an LMS Dinner on the evening of the 16th in the Hall of Trinity College, for which the charge is £6 (including wine). A limited amount of overnight accommodation in single rooms is available in Trinity College for £5.40 (including breakfast) per person. Those wishing to attend the dinner or to stay over night in Trinity should write, enclosing payment, to Professor J. W. S. Cassels, Department of Pure Mathematics and Mathematical Statistics, 16 Mill Lane, Cambridge CB2 1SB, U.K. by Friday 9 December at the latest and if possible before the end of November. Cheques should be payable to "University of Cambridge".

The meeting is open to all who are interested. If it proves impossible to provide accommodation in Trinity for all who apply, then preference will be given to members of the London Mathematical Society and their spouses.

J. W. S. CASSELS

WEEKEND MEETING AT GREGYNOG HALL

There will be a Weekend Meeting of the London Mathematical Society at Gregynog Hall, near Newton, Powys, on 19-22 May 1978. The general theme of the meeting will be "Representations of Algebras". The main lecturers will be P. Gabriel, (Zurich)—"Main trends in representation theory of algebras" (three lectures), M. Duflo (Paris)—"Primitive ideals in semi-simple enveloping algebras" (three lectures), J. C. Jantzen (Bonn)—"Representations of semi-simple groups and Lie algebras with a highest weight" (one lecture) and M. C. R. Butler (Liverpool) (one lecture), title to be announced.

The afternoons will be free for informal lectures and discussions (or to enjoy the countryside around Gregynog Hall). The total cost for the conference period (Dinner on Friday—Lunch on Monday) will be £26.40. Gregynog Hall is a residential educational centre which belongs to the University of Wales. It is a large country house in a secluded valley some five miles north of Newton, Powys. All who are interested in attending should write to Dr. F. W. Long, Department of Pure Mathematics, University College of Wales, Aberystwyth, Dyfed.

A. O. MORRIS

MEMBERS' CHANGES OF ADDRESS

Members taking sabbatical leave or changing address are requested to inform the Administrative Assistant, London Mathematical Society, Burlington House, Piccadilly, London W1V 0NL. Failure to do so has sometimes resulted in the non-receipt of journals and additional admini-

strative work. Although considerable effort is made to trace members who do not reply when notified of the annual subscription, there is also the possibility of members whose current address is not known to the Society being struck off the membership list.

E. SIMPSON

WISKUNDIG GENOOTSCHAP: BICENTENNIAL MEETING

The Wiskundig Genootschap will celebrate its two hundredth anniversary with a meeting in Amsterdam on 29-31 March, 1978. Principal speakers include J. J. Durstermaat (Utrecht), N. H. Kuiper (I.H.E.S.) and J. J. Seidel (Eindhoven).

In addition there will be 25 shorter lectures by well-known mathematicians in parallel sessions. Further details can be obtained from Mrs. S. J. Kuipers-Hoekstra, Mathematisch Centrum, 2e Boerhaavestraat 49, 1091 AL Amsterdam, Netherlands.

COUNCIL FOR THE SESSION 1977-78

The following have been nominated by the present Council:

President

J. W. S. Cassels, M.A., Ph.D., F.R.S.

Vice-Presidents

C. T. C. Wall Ph.D., F.R.S.

T. J. Willmore, M.Sc., Ph.D., D.Sc.

Treasurer

I. M. James, M.A., D.Phil., F.R.S.

Librarian

P. McMullen, M.A., Ph.D.

Publications Secretary

S. A. Robertson, B.Sc., Ph.D.

Council and General Secretary

D. A. Brannan, Ph.D.

Meetings and Membership Secretary

D. B. Singmaster, M.A., Ph.D.

Other Members of Council

*D. E. Edmunds, Ph.D.

D. B. A. Epstein, Ph.D.

A. W. Goldie, M.A.

H. B. Griffiths, Ph.D.

H. Halberstam, M.Sc., Ph.D.

B. E. Johnson, Ph.D.

D. G. Kendall, F.R.S.

A. O. Morris, Ph.D.

P. M. Neumann, M.A., D.Phil.

E. M. Patterson, Ph.D., F.R.S.E.

*J. H. Williamson, M.A., Ph.D.

J. D. M. Wright, M.A., D.Phil.

*Members whose names appear with an asterisk are not on the retiring Council.

Member's signature

NOTE: If you wish to vote, please bring this list to the Annual General Meeting, or post it to "The Scrutineers of the London Mathematical Society, c/o Dr. D. A. Brannan, London Mathematical Society, Burlington House, Piccadilly, London W1V 0NL" to arrive by 17 November in an envelope containing no other correspondence (in particular, *not* containing a booking form for the Annual Dinner).

ANNUAL DINNER 18 November 1977

The Piccadilly Hotel, Piccadilly, London at 6.45 p.m. for 7.15 p.m.

I wish to book.....places for the Annual Dinner, 1977, at £5.00 per person. I enclose payment. (Please make cheques payable to the London Mathematical Society.)

Name (Please print)

Address

Bookings should be sent by Friday 11 November to:

D. Singmaster, Dept. of Mathematics, Polytechnic of the South Bank, London, SE1 0AA.

APPLICATIONS OF MATHEMATICS IN THE BUILDING INDUSTRY

The VIII International Conference on the Applications of Mathematics in Engineering will be held in the Hochschule für Architektur at Weimar on 25 June-2 July 1978. The conference will be concerned with applications of mathematics in the building

industry. Further details can be obtained from Kongressbüro-VII IKM, Hochschule für Architektur und Bauwesen Weimar, DDR-53 Weimar, Karl Marx Platz 2, German Democratic Republic.

EDINBURGH MATHEMATICAL SOCIETY

The following meetings of the Edinburgh Mathematical Society have been arranged for the remainder of the session 1977-78.

1977

11 November (Edinburgh), M. J. D. Powell.
2 December (Glasgow), J. M. Ball.

1978

20 January (Edinburgh), J. H. Williamson
10 February (Edinburgh), A. W. Goldie
3 March (Dundee), D. Martin

6 May (Aberdeen), R. A. Rankin.
27 May (St. Andrews), J. H. Conway.

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

CONFERENCE ON COMBINATORIAL MATHEMATICS

The Second International Conference on Combinatorial Mathematics sponsored by the New York Academy of Sciences will be held in New York on 4-7 April 1978. The organisers hope to bring together experts in pure combinatorics and in a wide variety of applications of the subject. There will

be a number of sessions for discussion of open problems in all areas of the subjects covered. Further details can be obtained from the Conference Department, New York Academy of Sciences, 2 East 63rd St., New York, NY 10021, U.S.A.

DEVELOPING MATHEMATICS IN THE THIRD WORLD

An International Conference on Developing Mathematics in the Third World Countries will be held in Khartoum, Sudan, on 6-9 March 1978. The following topics will be discussed: Mathematics and Development, The Role of University Mathematics Institutions, Research and Graduate Education, School Mathematics, Mathematical Policies and International Cooperation. Invited speakers include I. Abubakar (Nigeria), A. Ashour (Egypt), G. Borg (Sweden), Ba. Boubakar (Niger), Chan Day Ngia (Vietnam), V. D'Ambrosio

(Brazil), G. Dahlquist (Sweden), D. A. Herrero (Venezuela), H. Hogbe-Nlend (Cameroon), C. Imaz (Mexico), M. J. Lighthill (Britain), J. L. Lions (France), L. Nachbin (Brazil), M. S. Narasimhan (India), B. Nebres (Philippines), K. R. Parthasarathy (India), S. Passman (UNESCO), L. A. Santalo (Argentina), S. Shahshahani (Iran), P. Suppes (U.S.A.), R. Thom (France) and B. Thwaites (Britain). Further details can be obtained from M. E.A. El Tom, Mathematics Department, University of Khartoum, Khartoum, Sudan.

ICMI SYMPOSIUM ON EDUCATION OF MATHEMATICS TEACHERS

The International Commission on Mathematical Instruction is organising a Symposium on the Education of Mathematics Teachers at the International Congress in Helsinki in August 1978. Anyone interested in participating in the Symposium is requested to contact either of the two co-chairman from whom further details can

be obtained. The co-chairmen are the vice presidents of the ICMI—B. Christiansen, Department of Mathematics Royal Danish School of Educational Studies, Endrupvej 101, DK2400 Copenhagen NV, Denmark and H.-G. Steiner, Institut für Didaktik der Mathematik, Universität Bielefeld Postfach 8640, D-4800 Bielefeld 1, Germany