

LMS NEWSLETTER

No. 67

March 1980

DATES OF SOCIETY MEETINGS

Friday, 21 March 1980, Burlington House (L. Nirenberg & S. D. Murray).

Friday, 16 May–Saturday, 17 May 1980. Two-day meeting at Manchester.

Friday, 20 June 1980, Burlington House (C. J. Clunie & J. Eells).

Friday, 17 October 1980, Burlington House.

Friday, 21 November 1980, London: venue to be announced (Annual General Meeting and Presidential Address).

Friday, 16 January 1981, Burlington House.

Friday, 20 February 1981, Burlington House.

Friday, 20 March 1981, Burlington House.

Friday, 15 May 1981 (? Out-of-London Meeting).

Friday, 19 June 1981.

R. A. BAILEY

SOCIETY PRIZES

At the June meeting of the Society this year, Council proposes to award a de Morgan medal, a Senior Berwick prize, a Senior Whitehead prize and one or more Junior Whitehead prizes. Accordingly it has appointed

C. T. C. Wall, C. A. Rogers and P. M. Neumann

to the 1980 Medal Committee and

C. T. C. Wall, P. M. Cohn and F. F. Bonsall

to the 1980 Prize Committee.

The Council invites members of the Society to submit their views confidentially in writing to any member of the appropriate committee. Nominations for Junior Whitehead prizes are particularly solicited.

The de Morgan medal is awarded to a mathematician who is normally resident in the UK. The sole grounds for the award of the medal are the candidate's contributions

to mathematics.

The Senior Berwick prize is awarded to a member of the society, in respect of a piece of work published by the society in one of the calendar years 1976–1979.

The Senior Whitehead prize is awarded to a mathematician who is normally resident in the UK. Grounds for the award of the prize include work in, influence on and service to mathematics, and lecturing gifts.

Junior Whitehead prizes are awarded to mathematicians normally resident in the UK who are under 40 years old. Grounds for the award of the prizes include work in and influence on mathematics.

Further information concerning the regulations and procedure for award may be obtained on application to the Secretary, D. A. Brannan.

C. T. C. WALL

VISITING LECTURERS

Professor L. Nirenberg (Courant Institute, New York) will be visiting this country to address the Society's ordinary meeting on 21 March. During his visit he hopes to lecture in Oxford and Cambridge. Further details can be obtained from R. A. Bailey (Open University).

A visit to this country by J. Aaronson of the Institut des Hautes Etudes Scientifiques has been arranged. On 10 March he will

speak at Imperial College, London, on "Some complex analytic ergodic theory: inner functions". On 11 March he will speak at Warwick University on "Medium sequences and distributional limits for transformations preserving infinite measures". Further information from T. Kövari (I.C.) and K. Schmidt (Warwick).

T. KÖVARI

LONDON MATHEMATICAL SOCIETY

DR. J. D. MURRAY (Oxford)

**MATHEMATICAL PROBLEMS IN REALISTIC
MODELS FOR BIOLOGICAL PATTERN
FORMATION (WITH SPECIFIC REFERENCE TO
ANIMAL MARKINGS)**

PROFESSOR L. NIRENBERG (Courant Institute)

**TOPOLOGICAL AND VARIATIONAL
TECHNIQUES IN NON-LINEAR PROBLEMS**

FRIDAY, 21st March, 1980, 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.

COLLINGWOOD 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 and entering a course of postgraduate research.

The 1979 prize has been awarded to Mr. A. J. Monaghan of Van Mildert College who is now studying for the degree of Ph.D. at the University of Durham.

P. J. HIGGINS

SRC MATHEMATICS REPORT

The 1979 issue of the review of activities of the mathematics committee of the SRC is now available and has been sent to Heads of Departments in universities and polytechnics. Further copies are available from Mrs. S. T. Herring, Science Research Council, PO Box 18, Swindon SN2 1ET.

VISITORS TO IHES

The following are visiting the IHES this spring:

<i>Name</i>	<i>Home Institution</i>	<i>Dates</i>
Aaronson, J.	Jerusalem	September 79-June 80
Cattani, E.	Amherst	January-June 80
Fornaess, J.	Princeton	June 80
Furstenberg, H.	Copenhagen	May-June 80
Gromov, M.	SUNY	August 79-June 80
Gross, L.	Cornell	May-June 80
Hardorp, D.	Duke	October 79-June 80
Jimbo, M.	Kyoto	May-July 80
Kashiwara, M.	Kyoto	October 79-June 80
Katz, N.	Princeton	June 79-June 80
Katznelson, Y.	Jerusalem	March-June 80
Kazhdan, D.	Harvard	May-June 80
Lichtenbaum, S.	Cornell	July-August 80
Mitchell, J.	SUNY	January-June 80
Miwa, T.	Kyoto	May-July 80
Moreno, J.	Urbana	October 79-June 80
Palis, J.	Rio de Janeiro	May-June 80
Peng, C. K.	Princeton	May 80
Ribet, K.	Berkeley	September 79-June 80
Sattinger, D.	Minnesota	January-March 80
Seifert, B.	Berkeley	September 79-June 80
Seshadri, C. S.	Tata Institute	April-June 80
Shintani, T.	Tokyo	May 80-January 81
Shiohama, K.	Bonn	March 80
Shiota, M.	Kyoto	January-June 80
Simon, I.	Sao Paulo	December 79-May 80
Sinnott, W.	Princeton	September 79-June 80
Stiller, P.	Texas	September 79-June 80
Sunada, T.	Bonn	March 80
Szlenk, W.	Warsaw	April-June 80
Szucs, A.	Szeged	March-May 80
Verona, A.	Bucarest	March-April 80
Williams, R.	Evanston	May-June 80
Winkelkemper, H. E.	Maryland	September 79-June 80
Zimmer, R.	Chicago	February-March 80

REPRESENTATIONS OF GROUPS OF LIE TYPE

The London Mathematical Society is organizing a Weekend Meeting at Gregynog Hall, near Newtown, Powys on 23–26 May 1980. The general theme of the meeting will be "Representations of groups of Lie type". The following have been invited to lecture: R. Steinberg (U.C.L.A. and London), T. A. Springer (Utrecht), J. C. Jantzen (Bonn), I. G. MacDonald (London), R. W. Carter, J. A. Green and S. Donkin (Warwick). A more detailed programme giving titles of lectures etc. will be announced later.

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 Newtown, Powys. The total cost for the conference period (dinner on Friday—lunch on Monday) will be approximately £36. All who wish to attend should write to Dr. T. P. McDonough, Department of Pure Mathematics, University College of Wales, Aberystwyth, Dyfed.

A. O. MORRIS

FINITE ELEMENT METHODS FOR NONLINEAR PROBLEMS

A Durham Symposium on finite element methods for nonlinear and singular problems will be held on 26 June–6 July 1980. It is intended that a study of finite element techniques for "difficult problems" will be undertaken in the Symposium. As a consequence, not only finite element experts but also specialists from the fields of fluids and fracture, together with some numerical analysts who work primarily with techniques other than finite elements, have been invited. A large number of specialists from all over the world have already agreed to

participate.

Although attendance is primarily by invitation, interested mathematicians who have not so far been invited, particularly younger research workers, who may benefit from participating in a gathering of this type and who would like to attend, are urged to contact as soon as possible the Symposium organiser: J. R. Whiteman, Institute of Computational Mathematics, Brunel University, Uxbridge, Middlesex UB8 3PH.

CONFERENCE ON NUMBER THEORY

The next meeting of the Journées Arithmétiques will be held in Exeter on 13–19 April 1980. The conference is jointly sponsored by the LMS and SMF. Principal speakers invited include B. J. Birch, J. Coates, G. Chudnovsky, C. Hooley, R. Heath-Brown, P. Roquette, H. W. Lenstra, D. Bertrand, M. Taylor and

W. Narkiewicz. Splinter groups covering most parts of number theory are being organised. Likely cost of residence is about £70 full board; special arrangements can be made for shorter visits. Further details available from R. Odoni, Mathematics Department, University of Exeter, North Park Road, Exeter, EX4 4QE.

COMBINATORIAL MATHEMATICS SOCIETY OF AUSTRALASIA

The Combinatorial Mathematics Society of Australasia was formed in 1978 to promote combinatorial mathematics: the investigation, construction, enumeration and application of discrete configurations. It disseminates information about combinatorics and combinatoricists through its newsletter *Combinatorics*, and conducts an annual conference the proceedings of which are published. There are currently 93 members representing eight countries.

Any interested person is invited to join C.M.S.A. Annual subscription for 1980 is \$A4 for those in full-time employment and \$A2 otherwise. Members receive the newsletter and a reduction in the annual conference registration fee. Please address all enquiries, giving your full name and address, to: K. L. McAvaney, Director C.M.S.A., Division of Computing and Mathematics, Deakin University, Victoria 3217, Australia.

CONFERENCE ON COMBINATORIAL MATHEMATICS

The Eighth Australian Conference on Combinatorial Mathematics will be held at Deakin University, Geelong, Victoria, 25-29 August, 1980. All interested are cordially invited to attend. Contributed papers are welcome in all areas of combinatorics, pure and applied. Invited speakers are being arranged. One or two

series of instructional lectures are being planned. Accommodation on campus will be available. The second annual general meeting of the Combinatorial Mathematics Society of Australasia will be held at the Conference. Further details can be obtained from K. L. McAvaney, as foregoing item.

MONTREAL SEMINAR ON COMPLEX VARIETIES

This year's session of the Séminaire de Mathématiques Supérieures will be a NATO Advanced Study Institute on Complex Varieties: Applications to algebraic geometry and mathematical physics held in Montréal on 4-22 August 1980. The principal speakers, each of whom (except the first) will give a course of 12 lectures, and titles are:

- A. Douady (Paris): Equations différentielles et surfaces de Riemann.
- J. Harris (Brown): Generalized Jacobians and The'a-Characteristics: Modern Methods in Curve Theory.
- F. Hirzebruch (Bonn) and G. van der Geer (Amsterdam): Introduction to Algebraic Surface and Some Applications to

- Hilbert Modular Surfaces.
- S. Iitaka (Tokyo): Birational Geometry for Open Varieties.
- L. Kaup (Konstanz) and S. Kilambi (Montréal): Topologie des surfaces complexes compactes.
- D. Mumford (Harvard): Classification of 3-Dimensional Varieties.
- R. O. Wells, Jr. (Rice): Complex Geometry in Mathematical Physics.

Partial financial support is available to selected participants, in particular citizens of NATO countries. For further information write to: Ghislaine David, Secretary, Séminaire de Mathématiques Supérieures, Université de Montréal, CP. 6128, Succ. A, Montréal, H3C 3J7, Canada.

INSTITUTE ON STOCHASTIC SYSTEMS

A NATO Advanced Summer Institute on Stochastic Systems: the mathematics of filtering and identification and applications will be held on 22 June-5 July 1980 at Les Arcs, France. Invited speakers include L. Arnold, A. Bensoussan, R. Boel, R. Brockett, P. Caines, J. Clark, M. Davis,

P. De Wilde, E. Hannan, T. Kailath, Y. Landau, L. Ljung, S. Mitter and G. Picci. Further information can be obtained from M. Hazewinkel, Dept. of Mathematics, Erasmus University, PO Box 1738, 3000 DR, Rotterdam.

SOUTHEAST ASIAN MATHEMATICAL SOCIETY MEETING

A biennial meeting of the Southeast Asian Mathematical Society will be held in Hong Kong on 16-21 June 1980. The theme will be "Recent advances in mathematics and its applications". Invited speakers include S. S. Chern, J. Duncan and

P. J. Hilton. Further details can be obtained from the Secretary, SEAMS Conference, Mathematics Department, Chinese University of Hong Kong, Shatin, N.T., Hong Kong.

COMPSTAT 1980

A symposium on computational statistics will be held in Edinburgh on 18-22 August 1980. Invited speakers include E. M. L. Beale (Imperial), I. Francis (Cornell), R. Tomassone (Inst. Nat. Recherche

Agronomique) and J. Tukey (Princeton). Further details can be obtained from the Director, Program Library Unit, University of Edinburgh, 18 Buccleuch Place, Edinburgh EH8 9LN.

QUEEN MARY COLLEGE MATHEMATICS NOTES

- R. Bieri, Homological Dimension of Discrete Groups (£3·00)
D. E. Cohen, Combinatorial Group Theory: A Topological Approach (£3·00)
P. M. Cohn, Morita Equivalence and Duality (£2·50)
P. Hall, The Edmonton Notes on Nilpotent Groups (£3·00)
B. A. F. Wehrfritz, Infinite Linear Groups (£2·50)
B. A. F. Wehrfritz, Lectures around Complete Local Rings (£3·00)
(Prices quoted are for *mailing within the British Isles only*.) Orders should be *prepaid* and addressed to: Secretary, Department of Pure Mathematics, Queen Mary College, Mile End Road, London E1 4NS. Prices for overseas are available on request.

PROFESSOR B. M. SCHEIN

Professor B. M. Schein (Šaĭn) (who is a widely respected expert on semigroups) has recently applied for an emigration visa from the Soviet Union. Friends wishing to write to express support and sympathy (his daughter is ill) can do so to the following address: 410600 Saratov, ul Vavilova 2, kv. 111, U.S.S.R.

C. T. C. WALL

BOOKS RECEIVED FOR REVIEW IN THE BULLETIN

Complimentary copies of the books listed below have been received from their publishers by the Society. Those for which the *Bulletin* is unable to publish a review will be lodged in the Society's library at University College, London, where they are available for inspection and use by members.

- S. K. Sehgal: Topics in Group Rings (Marcel Dekker)
W. A. Smith: Elementary Numerical Analysis (Harper and Row)
J. R. Britton & I. Bello: Topics in Contemporary Mathematics (Harper and Row)
P. C. W. Davies: The Forces of Nature (Cambridge University Press)
R. G. Laha & V. K. Rohatgi: Probability Theory (Wiley-Interscience)
P. J. Kelly & M. L. Weiss: Geometry and Convexity (John Wiley)
R. Wait: The Numerical Solutions of Algebraic Equations (John Wiley)
L. Hörmander (Ed.): Seminar on Singularities of Solutions of Linear Partial Differential Equations (Princeton University Press)
G. C. Rota (Ed.): Studies in Combinatorics (Mathematical Association of America)
S. W. Hawking & W. Israel: General Relativity (Cambridge University Press)
A. H. Nayfeh & D. T. Mook: Nonlinear Oscillations (Wiley-Interscience)
H. J. Keisler, S. Körner, W. A. J. Luxemburg, A. D. Young (Eds.): Selected Papers of Abraham Robinson Vol. 1 Model Theory, 2 Nonstandard Analysis and Philosophy, 3 Aeronautics (Yale University Press)
Prime 80—Proceedings of a Conference on Prospects in Mathematics Education in the 1980's (Mathematical Association of America)
J. M. van Wouwe: Go-spaces and Generalizations of Metrizable (Mathematisch Centrum)
E. G. Begle: Critical Variables in Mathematics Education (Mathematical Association of America/NCTM)
A. V. Geramita & Jennifer Sebery: Orthogonal Designs (Lecture Notes Pure/Applied Mathematics Vol. 45) (Marcel Dekker)
Jean Cea: Lectures on Optimization-Theory and Algorithms (Springer-Verlag for Tata Institute of Fundamental Research, Bombay)
J. Jacod: Calcul Stochastique et Problèmes de Martingales (Springer-Verlag)
I. B. S. Passi: Group Rings and their Augmentation Ideals (Springer-Verlag)
M. Scheunert: The Theory of Lie Superalgebras (Springer-Verlag)
M. Grosser: Bidualräume und Vervollständigungen von Banachmoduln (Springer-Verlag)
Jeanne Ferrante & C. W. Rackoff: The Computational Complexity of Logical Theories (Springer-Verlag)
H. Herrlich & G. Preu (Eds.): Categorical Topology (Proceedings Berlin, 1978) (LNM 719) (Springer-Verlag)
E. Dubinsky: The Structure of Nuclear Fréchet Spaces (Springer-Verlag)

- C. Dellacherie, P. A. Meyer & M. Weil (Eds.): Séminaire de Probabilités XIII (Université de Strasbourg 77/78) (LNM 721) (Springer-Verlag)
- R. Fenn (Ed.): Topology of Low-Dimensional Manifolds (Proceedings, Sussex 1977) (LNM 722) (Springer-Verlag)
- W. Brandal: Commutative Rings Whose Finitely Generated Modules Decompose (Springer-Verlag)
- D. Griffeth: Additive and Cancellative Interacting Particle Systems (Springer-Verlag)
- Y.-C. Wong: Schwartz Spaces, Nuclear Spaces and Tensor Products (Springer-Verlag)
- Y. Saito: Schrödinger Operators (Springer-Verlag/Tata Institute)
- C. P. Ramanujam—A Tribute (Springer-Verlag/Tata Institute)
- H. Grauert & R. Remmert: Theory of Stein Spaces (Springer-Verlag)
- R. Remmert & J.-P. Serre (Eds.): H. Cartan—Oeuvres—Collected Works (Springer-Verlag)
- W. M. Wonham: Linear Multivariable Control: A Geometric Approach (Springer-Verlag)
- André Weil: Oeuvres Scientifiques. Collected Papers 1926–1978. 3 vols. (Springer-Verlag)
- M. Rosenblatt (Ed.): Studies in Probability Theory Vol. 18 (Mathematical Association of America)
- C. R. Hadlock: Field Theory and its Classical Problems (Carus Mathematical Monographs No. 19) (Mathematical Association of America)
- A. Weil & M. Rosenlicht: Number Theory for Beginners (Springer-Verlag)
- S. L. Krushkal': Quasiformal Mappings and Riemann Surfaces (Winston/Wiley)
- B. G. Mirkin: Group Choice (Winston/Wiley)
- Ed. LMS: Collected Papers of G. H. Hardy Vol. VII (Clarendon Press)
- J. Cigler, V. Losert, P. Michor: Banach Modules and Functors on Categories of Banach Spaces (LNP & AM 46) (Dekker)
- J. Lindenstrauss & L. Tzafriri: Classical Banach Spaces, II (Springer-Verlag)
- A. Böhm: Quantum Mechanics (Springer-Verlag)
- G. Lallement: Semigroups and Combinatorial Applications (Wiley-Interscience)
- N. Christofides, A. Mingozi, P. Toth, C. Sandi (Eds.): Combinatorial Optimization (Wiley-Interscience)
- G. E. Andrews: The Theory of Partitions (Addison-Wesley)
- I. I. Gihman & A. V. Skorohod: The Theory of Stochastic Processes III (Springer-Verlag)
- D. W. Stroock & S. R. S. Varadhan: Multidimensional Diffusion Processes (Springer-Verlag)
- S.-S. Chern: Complex Manifolds Without Potential Theory, 2nd ed. (Springer-Verlag)
- P. E. Newstead: Lectures on Introduction to Moduli Problems and Orbit Spaces (Springer-Verlag/Tata Institute)
- T. Oda: Torus Embeddings and Applications (Springer-Verlag/Tata Institute)
- K. Itô (Ed.): Proceedings of Symposium on Stochastic Differential Equations (John Wiley)
- Collected Papers of Oscar Zariski, III (Massachusetts Institute of Technology Press)
- P. de la Harpe (Ed.): Algèbres d'Opérateurs, Séminaire, Les Plans-sur-Bex, Switzerland, 1978 (LNM 725) (Springer-Verlag)
- J. Carmona & Michèle Vergue: Non-Commutative Harmonic Analysis Proceedings, Marseille-Luminy, France 1978 (LNM 728) (Springer-Verlag)
- K. Lønsted (Ed.): Algebraic Geometry, Proceedings, Copenhagen 1978 (LNM 732) (Springer-Verlag)
- A. F. Ranada (Ed.) Nonlinear Problems in Theoretical Physics, Proceedings Jaca, Huesca, Spain 1978 (LNP 98) (Springer-Verlag)
- M. Drieschner: Voraussage-Wahrscheinlichkeit-Objekt. Über die begrifflichen Grundlagen der Quantenmechanik (LNP 99) (Springer-Verlag)
- A. Martin-Löf: Statistical Mechanics and the Foundations of Thermodynamics (LNP 101) (Springer-Verlag)
- S. Albeveris et al. (Eds.) Feynman Path Integrals, Proceedings Marseille 1978 (LNP 104) (Springer-Verlag)
- P. A. Martin: Modèles en Mécanique Statistique des Processus Irréversibles (Springer-Verlag)
- Y.-C. Wong: Linear Geometry in Euclidean 4-Space (Southeast Asian Mathematical Society)
- B. M. F. de Veubeke: A Course in Elasticity (Applied Mathematical Sciences 29) (Springer-Verlag)

- E. R. Alletsee, H. Jung & G. Umhauer: Assembler I, II, III, Heidelberger Taschenbücher Band 140 (Springer-Verlag)
- J. A. Robinson: Logic: Form and Function (Edinburgh University Press)
- B. Simon: Trace Ideals and their Applications (LMS LN 35) (Cambridge University Press)
- N. L. Biggs & A. T. White: Permutation Groups (CUP/LMS LN 33)
- A. J. Weir: General Integration and Measure (Cambridge University Press)
- A. Bellini-Morante: Applied Semi-Groups and Evolution Equations (Clarendon Press)
- I. Stakgold: Green's Functions and Boundary Value Problems (John Wiley)
- B. Bollobás (Ed.): Surveys in Combinatorics (CUP/LMS LN 38)
- J. A. Tierney: Differential Equations (Allyn & Bacon)
- J. A. Tierney: Calculus and Analytic Geometry (Allyn & Bacon)
- C. H. Sah: Hilbert's Third Problem: Scissors Congruence (Pitman)
- J. A. Bondy & U. S. R. Murty (Eds.): Graph Theory and Related Topics (Academic Press)
- H. Zorski (Ed.) Trends in Applications of Pure Mathematics to Mechanics Vol. II (Pitman)
- A. C. McBride: Fractional Calculus and Integral Transforms of Generalized Functions (Pitman)
- D. E. Lerner & P. D. Sommers: Complex Manifold Techniques in Theoretical Physics (Pitman)
- R. J. Wilson (Ed.): Graph Theory and Combinatorics (Pitman)
- J. Cunsolo & J. P. Mokanski: Study Guide for Calculus (Allyn & Bacon)
- J. Cunsolo & J. P. Mokanski: Instructor's Supplement to Johnson and Kiokemeister's Calculus with Analytic Geometry (Allyn & Bacon)
- L. Smarr: Sources of Gravitational Radiation (Cambridge University Press)
- J. J. Rotman: An Introduction to Homological Algebra (Academic Press)
- B. Boos & M. Niss (Eds.): Mathematics and the Real World, Proceedings Roskilde Centre 1978 (Birkhäuser Verlag)
- G. Klambauer: Problems and Propositions in Analysis (Dekker)
- Certificate Mathematics, Units M1 to M12 (Heinemann Educational Books)
- R. Lingenberg: Metric Planes (Wiley-Interscience)
- P. W. Hemker & J. J. H. Miller (Eds.): Numerical Analysis of Singular Perturbation Problems (Academic Press)
- R. Debever (Ed.): Letters on Absolute Parallelism 1929-1932, Elie Cartan—Albert Einstein (Princeton University Press)
- M. K. Jain: Numerical Solution of Differential Equations (Wiley Eastern Ltd.)
- J. Barnes: Ahead of his Age—Bishop Barnes of Birmingham (Collins)
- R. E. Edwards: A Formal Background to Mathematics 1a and 1b (Springer)
- A. J. E. M. Janssen: Application of the Wigner-Distribution to Harmonic Analysis of Generalized Stochastic Processes (Mathematisch Centrum)
- B. Bollobás: Graph Theory, An Introductory Course (Springer)

UNIVERSITY OF LONDON: GOLDSMITHS' COLLEGE

Lectureship in Mathematics

Applications are invited for the post of Lecturer in Mathematics to undertake teaching at undergraduate level. A higher degree and published work is essential, preferably in Applied or Applicable Mathematics. Required for 1st September 1980 or as soon as possible thereafter.

Salary on scale £5,016 × 12 increments to £8,247 per annum inclusive of London Allowance and supplement. (Under review.)

Write for further particulars to the Personnel Officer, University of London Goldsmiths' College, New Cross, London SE14 6NW to whom applications should be submitted by 7th March 1980.

LONDON MATHEMATICAL SOCIETY

TWO-DAY MEETING AT MANCHESTER

16-17 May 1980

Friday 16th May

- 2.00 p.m. Opening Session
- 2.15 p.m. Professor G. Baumslag
 "The integral homology of finitely presented groups"
- 3.30 p.m. Tea
- 4.00 p.m. Professor F. T. Farrell
 "Aspherical manifolds"
- 5.15 p.m. Dr. P. M. Neumann
 "Wreath products now and then"
- 7.00 p.m. DINNER

Saturday 17th May

- 9.45 a.m. Professor E. Rees
 "Cobordism and complex algebraic geometry"
- 11.00 a.m. Coffee
- 11.30 a.m. Professor T. tom Dieck
 "Homotopy representations of finite groups"

**Lectures will take place in
Room 2.16 in the Mathematics Building
University of Manchester**

Further information appears overleaf