haviour of impulse activity in neural networks, which he described by local differential equations. He became interested in neuronal differentiation and suggested a molecular basis for the differences between classes of nerve cells. He considered that an alteration in the connexions between neurones is the most plausible theory for the neural basis of memory and turned to consider how such alterations could be initiated. In his "two gates" hypothesis he suggested that when two synaptically coupled cells fire together, their membranes become permeable to a chemical messenger substance which passes across the synapse from one cell to the other. He then went on to show how such a substance might act in order to change the functional connexions between the two cells. This was probably his most important contribution to brain theory. It created widespread interest although, because of technical difficulties, it remains to be tested. In 1967 he produced a short monograph entitled A View of the Brain, presenting, among other things, some controversial ideas about the establishment of connexions in the visual system, and 1971 saw the publication of his last book, completed during his long final illness, entitled Mathematical Neurobiology, in which he outlined the mathematical theory of neuronal networks, of action potentials and of information storage systems in general. It will be some time before the full implications of Griffith's original contributions to this subject are fully worked out.

No account of John Griffith's life would be complete without a reference to his deep passion for mathematical purity, his thoroughly original approach to any problem in which he was interested, and — behind a somewhat reserved exterior — a quiet shy smile that endeared him to his friends.

Announcements

International Meetings

July 2-14, Padé Approximants and their Applications, Canterbury (Dr A. K. Common, School of Mathematics, University of Kent, Canterbury, Kent).

July 3-4, Advances in Applied Spectroscopy, London (Conference Administrator, IPC Business and Industrial Training Limited, 161-166 Fleet Street, London EC4).

July 3-5, Band Structure in Solids, Exeter (Professor E. P. Wohlfarth, Department of Mathematics, Imperial College, London SW7).

July 3-5, British Society for the History of Science Meeting, Exeter (Assistant Secretary, British Society for the History of Science, 47 Belgrave Square, London SW1).

July 3-7, Models, Evaluations and Information Systems for Planners, Cambridge (Richard Baxter, Centre for Land Use and Built Form Studies. 16 Brooklands Avenue, Cambridge CB2 2BB).

July 3-7, Tropical Hygiene, London (Ross Institute of Tropical Hygiene, London School of Hygiene and Tropical Medicine, Keppel Street (Gower Street), London WC1E 7HT).

July 3-7, Sex Education, Tel Aviv (Dr E. Chigier, PO Box 16271, Tel Aviv, Israel).

July 3-7, Nuclear Magnetic Resonance Spectroscopy, Guildford (Dr John F. Gibson, The Chemical Society, Burlington House, London W1V 0BN).

July 3-8, Chemistry in Evolution and Systematics, Strasbourg (Dr J. B. Harborne, Phytochemical Unit, Botany Department, The University, Reading RG1 5AQ).

July 3-20, Athens Ekistics Month, Athens (P. Psomopoulos, Athens Centre of Ekistics, Box 471, Athens, Greece).

July 3-29, Plasma Physics, Les Houches (Ecole d'Eté de Physique Théorique, 74 Les Houches, Haute Savoie, France).

July 4. The Measurement of Radiative Lifetimes of Atoms and Simple Molecules, Oxford (The Meetings Officer, Institute of Physics, 47 Belgrave Square, London SW1X 8QX).

Reports and Publications

not included in the Monthly Books Supplement

Great Britain and Ireland

Great Britain and Ireland Centre for Overseas Pest Research. Tropical Pest Bulletin No. 1: Illustrated Descriptions, Distribution Maps and Bibliography of the Species of Quelea (Weaver-Birds: Ploceidae). By Joyce I. Magor and P. Ward. Pp. 23+2 plates. (London: Centre for Overseas Pest Research, 1972.) £1 net. [223 Imperial Cancer Research Fund—Annual Report and Accounts for 1971. Pp. 77. (London: Imperial Cancer Research Fund, 1972.) [233 Harwell Industrial Research. Radioisotopes in Industry: Instruments and Tracers. Pp. 12. (Lon-don: UKAEA, 11 Charles II Street, 1972.) [233 Mental Handicap: a Select Annotated Biblio-graphy. Compiled by S. S. Segal. Pp. 52. (Slough, Bucks: National Foundation for Educational Re-search in England and Wales, 1972.) 40p. [243 Gardens to Visit 1972. Pp. 64. (Dorking, Surrey: Gardeners' Sunday, White Witches, Claygate Road, 1972.) 10p. Beliamy on Botany. By David Bellamy. Pp. 480

Gardeners' Sunday, White Witches, Claygate Road, 1972.) 10p. [273] Bellamy on Botany. By David Bellamy. Pp. v +80. (London: BBC, 1972.) 75p. [273] The Careers Advisory Board of the Universities of Durham and Newcastle-upon-Tyne. Twenty-sixth Annual Report. Pp. 23. (Durham and Newcastle: The Universities, 1972.) [273] Proceedings of the Royal Irish Academy. Vol. 72, Section A. No. 1: Some Asymptotic Relations for Starlike Functions. By F. Holland. Pp. 1-16. 30p. No. 2: The Idempotent Semigroups of Compact Moran. Pp. 17-34. 32p. No. 3: The Equations of Motion of Charged Bodies in General Relativity. By P. A. Hogan. Pp. 35-50. 32p. Vol. 72, Section B. No. 6: A Preliminary Account of the Simulidae (Diptera) in Ireland, with Observations on the Growth of Three Species. By Edward Faby. Pp. 75-82. 12p. No. 7: A Correlation of the Ordovi-cian Rocks of Courtown (Co. Wexford) and Tramore (Co. Waterford). By W. I. Mitchell, H. Carlisle, N. Hiller and R. Addison. Pp. 83-89. 9p. (Dublin: Royal Irish Academy, 1972.) [273] University of East Anglia. Annual Report of the Appointments Board, 1970/1971. Pp. 44. (Norwich: University of East Anglia, 1972.) [273] Royal Observatory Bulletins. No. 167: The Equivalent Widths of Spectral Lines in Twelve Late F. Dwarfs. By A L. T. Powell. Pp. 303-314. 29p

net. No. 168: Spectral Lines for Curve-of-Growth Analysis of Late-Type Stars, I. By A. L. T. Powell. Pp. 315-350. 50p net. No. 170: Masses, Radii and Luminosities of RR Lyrae Variable Stars. By Sir Richard Woolley and Ann Savage. Pp. 363-396. 59p net. (Herstmonceux: Royal Greenwich Observa-tory, 1971.) [273 Philosophical Transactions of the Royal Sacies of

Sir Richard Woolley and Ann Savage. Pp. 363-396.
Syp net. (Herstmonceux: Royal Greenwich Observatory, 1971.)
Philosophical Transactions of the Royal Society of London. B: Biological Sciences. Vol. 263, No. 853 (16 March 1972): Contributions to the Geology and Palaeontology of Chiloe Island, South Chile. By W. A. Watters and C. A. Fleming. Pp. 369-408+ plates 26-28. £1.35; S3.80. Vol. 263, No. 854 (16 March 1972): The Organization of a Cephalopod Ganglion. By J. Z. Young. Pp. 409-429+ plates 29-39. £1.40; S3.90. Vol. 263, No. 855 (16 March 1972): The Genetics of the Mimetic Butterfly Papili polytes L. By C. A. Clarke and P. M. Sheppard Dp. 431-458 + plates 40-42. £1.50; S3.90. Vol. 26. No. 856 (23 March 1972): Endemic Goltre in the Gilgit Agency, West Pakistan, with an Appendix on Dermatoglyphics and Taste-Testing. By J. A. Chapman, I. S. Grant, G. Taylor, Khalida Mahmud, Sardar-Ul-Mulk and M. A. Shahid. Pp. 459-491 + plates 40-46. £1.15; \$3.20. (London: The Royal Society, 1972.)
Annual Report of the Paterson Laboratories for 1971. Pp. 144. (Manchester: Paterson Laboratories for 1971. Pp. 144. (Manchester: Paterson Laboratories, for 1971. Pp. 144. (Manchester: Paterson Laboratories for 1971. Pp. 144. (Manchester: Paterson Laboratories, for 1971. Pp. 144. (Manchester: Paterson

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1972.) The Trees and Woods of Exmoor. By Roger Miles. (Microstudy B2.) Pp. 64+25 photographs. (Dulverton: The Exmoor Press, 1972.) 50p. [293] Natural Environment Research Council. The Nature Conservancy Research in Scotland-Report for 1968-1970. Pp. vi+98. (Edinburgh: The Nature Conservancy, Scottish Headquarters, 1970.) 500 50p net

net. [293] Alcohol and Drug Dependence—Treatment and Rehabilitation. Pp. 99. (London: King Edward's Hospital Fund for London, 1972.) [44 Fabian Research Series No. 300; Public Enterprise. By Christopher Foster. Pp. 32. (London: Fabian Society, 1972.) 30p. [44 Ministry of Agriculture, Fisheries and Food. Technical Bulletin No. 19: Farm Planning by Computer. Pp. vi+132. (London: HMSO, 1971.) 51.50. [44] Philosophical Transactions of the Royal Society

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Philosophical Transactions of the Royal Society of London. A: Mathematical and Physical Sciences. Vol. 272. No. 1220 (3 March 1972): Modern Equa-tions for Long Waves in Nonlinear Dispersive Systems. By T. B. Benjamin, J. L. Bona and J. J. Mahony. Pp. 47-78. (London: The Royal Society, 1972.) 85p; \$2.35. [44
Fabian Tract No. 412: The Politics of the Environ-ment. By Jeremy Bray. Pp. 24, 25p. Fabian Research Series No. 301: From Rhodesia to Zim-babwe. By Kees Maxey. Pp. 40. 45p. (London: The Fabian Society, 1972.) [54
Potato Marketing Board. Sutton Bridge Experi-mental Station—Annual Review—1971. Pp. 40. Questions and Answers about Potato Grading and Marketing Groups. Pp. 12. (London: Potato Mar-keting Board, 1972.) [54
Family Planning in Britain. Pp. 40. (London: Office of Health Economics, 1972.) 25p. [64
Albright and Wilson, Ltd. Annual Report for 1971. Pp. 40. (London: Albright and Wilson, Ltd. (1972.)
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The Cleaning of Premises and Plant in Accordance with The Asbestos Regulations. (Control and Safety Guide No. 9.) Pp. 12. (London: The Asbestos Information Committee, 1972.)
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Bulletin of the British Museum (Natural History).
Zoology. Vol. 22, No. 6: Bats from Thalland and Cambodia. By J. E. Hill and Kitt Thonglongya.
Pp. 171-196. 95p. Vol. 22, No. 7: A Redescription of Spelaeomysis servaris (Fage) Comb. Nov. (Mysidacea: Lepidomysidae) from the Material Collected on Aldabra Atoll, with a Key to the Species of Lepidomysidae. By R. W. Ingle. Pp. 197-210. 65p. (London: British Museum (Natural History), 1972.)

Species of Lepidomysuae. By K. W. Museum (Natural 197-210. 65p. (London: British Museum (Natural History), 1972.) [64 Agricultural Research Council. Weed Research Organization—Fourth Report, 1969–1971. Pp. iv +104. (London: Agricultural Research Council. 174 197

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