

ERRATUM. In the review of "A Short History of Botany in the United States" (*Nature*, **225**, 1078; 1970), the second and third sentences of the first paragraph should read: "The eleventh International Botanical Congress was held in Seattle in August 1968. This volume outlines the growth of knowledge . . ."

ERRATUM. In the article "Bremsstrahlung Radiation in an Intense Magnetic Field and Emission from Pulsars" by Hong-Yee Chiu and Vittorio Canuto (*Nature*, **225**, 1230; 1970), equation 5 should read:

$$\alpha_{\omega} = \frac{8\pi^3 c^2}{n_r^2 \omega^2} 2m \int_0^{\infty} \left[f(p_z') \frac{\partial}{\partial p_z'} \left(\frac{Q_{\omega}(p_z')}{p_z' + p_z} \right) + f(-p_z') \frac{\partial}{\partial p_z'} \left(\frac{Q_{\omega}(p_z')}{p_z' - p_z} \right) \right] dp_z' \quad (5)$$

ERRATUM. In the article "The Man who Lived with Australopithecines" (*Nature*, **225**, 1188; 1970), it was implied that the stone industry recovered from the Swartkrans cave site was contemporaneous with the Oldowan culture from Bed I at Olduvai, thus making it about 1.75 million years old. The comparison should, however, have been with the much younger culture from Bed II at Olduvai.

Sabbatical Itinerants

In the hope of providing some practical assistance in the good cause of mobility between laboratories, *Nature* advertises the needs for housing of families about to take up periods of sabbatical leave. To begin with, no charge will be made for advertisements like this. It is hoped that a period of experiment will show what form these advertisements could most usefully take and whether they are effective.

Exchange: Furnished 3 or 4-bedroomed house/apartment near the University of California, San Francisco, required for one year from July 1, 1970. Would exchange for a furnished 4-bedroomed house with central heating in Highgate, London N6, very near Highgate tube station. Please contact Dr M. de Swiet, Medical Unit, University College Hospital Medical School, University Street, London WC1 (telephone 01-387 5861).

Vacant: From July 1 to September 30, 1970. Furnished house, 3 bedrooms, central heating, 5 miles from St Andrews and the University. Please contact Dr David Scott, Department of Zoology, The University, St Andrews, Fife, Scotland.

Wanted: From early June to either end of July or preferably end of September, a 3-bedroomed house for botanist, wife and two children returning to Cambridge for study leave. Within three-mile radius of city centre preferred. Please contact W. Hadfield, Tea Research Association, Jorhat-8, Assam, India.

Wanted: Furnished flat or house in London with easy access to Imperial College, from beginning of June 1970 to end of January 1971, for American professor and family. Possibility exchange accommodation London/Harvard. Please contact Mrs B. Davidson, C.C.A., Imperial College, London SW7 (telephone 01-589 5111, ext. 1408).

Wanted: Small house or flat for married couple in the vicinity of the MRC Clinical Research Centre at Northwick Park, Harrow, Middlesex, for any period of time exceeding 3 months from September 15, 1970. Please contact Dr Philip Davies, Department of Medicine, New York University School of Medicine, 550 First Avenue, New York, NY 10016, USA.

British Diary

Monday, April 20

- Education** (6 p.m.) Sir James Tait, Royal Society of Arts, at John Adam Street, Adelphi, London WC2. (First of three Cantor Lectures on Training for Industry.)
- Large Scale Integration in Microelectronics** (7.30 p.m.) Mr D. D. Jones, Institution of Electronic and Radio Engineers, at the BBC Engineering Training Centre, Woodnorton, Evesham.
- PAM Graded Concentric Windings for 2-speed Single-phase Induction Motors** (5.30 p.m.) Dr A. R. W. Broadway and Mr M. R. Weatherley, Institution of Electrical Engineers, at Savoy Place, London WC2.
- Perfumery** (three-day symposium) British Society of Perfumers; and the Society of Cosmetic Chemists of Great Britain, at the Grand Hotel, Eastbourne, Sussex.
- Recent Developments in Extrusion** (6.45 p.m.) Mr D. Grant, Plastics Institute, at the Waldorf Hotel, Cooper Street, Manchester.
- Skyнет** (10 a.m. colloquium) Institution of Electronic and Radio Engineers, Joint IEE/IERE Communications Group, at the Institution of Electrical Engineers, Savoy Place, London WC2.

Tuesday, April 21

- Automation of Gas Chromatography** (8 p.m.) Dr D. R. Deans, Society for Analytical Chemistry; and the Royal Institute of Chemistry, at Constantine College of Technology, Borough Road, Middlesbrough.
- Cresol—Its Production and Use** (6.30 p.m.) Dr D. McNeil, Society of Chemical Industry, at the University, Southampton.
- Lasers and Their Applications** (7.15 p.m.) Institution of Electrical Engineers, at Harwood House College, Bletchley, Bucks.
- Organic Photochemistry** (two-day symposium) University of Manchester Institute of Science and Technology, Sackville Street, Manchester 1.
- Pyro-electric Materials for Infra-red Detectors** (5.30 p.m.) Dr E. H. Putley, Institution of Electrical Engineers, at Savoy Place, London WC2.
- Solar Studies with special reference to Space Observations** (two-day discussion meeting) Royal Society, at 6 Carlton House Terrace, London SW1.
- Visual Topology** (5.30 p.m.) Mr Edward Ironmonger, Royal Institution at 21 Albemarle Street, London W1. (Lecture for Sixth Form Pupils from Schools in London and the Home Counties. To be repeated on April 22, 28 and 29.)
- Why Hybrid Computers?** (10 a.m. colloquium) Institution of Electrical Engineers, at Savoy Place, London WC2.

Wednesday, April 22

- Annual Meeting** (6 p.m.) Institution of Mechanical Engineers, at 1 Birdcage Walk, London SW1.
- Automatic Analysis—an Industrial Viewpoint** (6.45 p.m.) Mr P. G. Jeffery, Society for Analytical Chemistry; and the Royal Institute of Chemistry, at Luton College of Technology, Luton.
- Logic as the Science of Mathematical Reasoning** (5.30 p.m.) Professor Abraham Robinson (Yale University), University College London, in the Engineering Theatre, Malet Place, London WC1. (Further lectures on April 27 and May 1.)
- Schools Project Technology** (7.30 p.m.) Institution of Electronic and Radio Engineers, in the Department of Electrical Engineering, The University, Liverpool.
- Real-Time Computer Model** (Business Games) Mr D. Simpson, Institution of Electronic and Radio Engineers, at 9 Bedford Square, London WC1.
- Science and the Rule of Thumb Approach** (7.30 p.m.) Mr G. H. Hutchinson, Oil and Colour Chemists' Association, at the Carlton Hotel, North Bridge, Edinburgh.
- Telecommunications Support for the Apollo Program** (5.30 p.m.) Mr Lorne M. Robinson, Institution of Electrical Engineers, at Savoy Place, London WC2.

Thursday, April 23

- Automatic Trains on the Victoria Line** (7 p.m.) Mr R. I. M. Arthurton, Institution of Electronic and Radio Engineers, at Medway College of Technology, Chatham, Kent.
- Carbon Fibres** (7.30 p.m.) Mr N. Judd, Plastics Institute, at the Old Nags Head, Jackson Row, Lloyd Street, Manchester, 2.
- CIMAC—Survey of Noise** (6 p.m. discussion) Institution of Mechanical Engineers, Combustion Engines Group, at 1 Birdcage Walk, London SW1.
- Comparison of Chromatographic Techniques** (2.30 p.m.) Society for Analytical Chemistry, Chromatography and Electrophoresis Group, at the Portsmouth Polytechnic, Burnaby Road, Portsmouth.
- Quasars and Radiogalaxies** (5.30 p.m.) Professor F. Hoyle, FRS, Institution of Electrical Engineers, at Savoy Place, London WC2 (61st Kelvin Lecture.)
- The Photoelectron Spectra of Some Molecules Containing the C≡N Group**, Mr R. F. Lake and Sir Harold Thompson, CBE, FRS, and
- Vibrational Relaxation in Pure CO₂ and CO₂ Mixtures**, Mr C. J. S. M. Simpson and Mr T. R. D. Chandler (4.30 p.m.) Royal Society, at 6 Carlton House Terrace, London SW1.

Friday, April 24

- Complexolytic Photoreactivity and Low-Energy Photosensitization** (1 p.m.) Professor G. O. Schenck, Royal Institution, at 21 Albemarle Street, London W1.

- Experimental Techniques for the Detection of Ion Movement in Solids**, Society for Electrochemistry, Solid State Sub-Group, at the Atomic Energy Research Establishment, Harwell, Didcot, Berks.
- Low-light Vision** (2.30 p.m. colloquium) Institution of Electrical Engineers, at Savoy Place, London WC2.
- Models and Molecules** (9 p.m.) Professor W. D. Ollis, Royal Institution, at 21 Albemarle Street, London W1.
- Non-standard Analysis. I. Analytic Theory of Polynomials** (5.30 p.m.) Professor Abraham Robinson (Yale University), University College London, in the Engineering Theatre, Malet Place, London WC1.
- Spring Scientific Meeting** (11.30 a.m.) Fisheries Society of the British Isles, in the Large Meeting Room of the Zoological Society, Regent's Park, London NW1.
- Monday, April 27**
- Apprenticeship and Industrial Training** (6 p.m.) Mr Cyril R. English, Royal Society of Arts, at John Adam Street, London WC2. (Second of three Cantor Lectures on Training for Industry.)
- Contact Problems in Machines using Thyristor Assisted Communication** (5.30 p.m.) Professor J. J. Bates, Mr S. Stanway and Mr R. F. Sansum, Institution of Electrical Engineers, at Savoy Place, London WC2.
- Escalators and Travolators** (8 p.m.) Mr C. W. Hardie, Institution of Mechanical Engineers, at 1 Birdcage Walk, London SW1.
- Gunn Domain Logic** (5.30 p.m.) Dr H. L. Hartnagel, Institution of Electrical Engineers, at Savoy Place, London WC2.
- Quasi-stellar Objects** (5.30 p.m.) Professor G. Burbidge (University of California), University College London, in the Physics Theatre, Gower Street, London WC1.
- The Evolution of a Microbial Metabolic Pathway** (5.30 p.m.) Professor Roger Y. Stanier (University of California), University College London, in the Botany Theatre, Gower Street, London WC1.

Reports and Publications

(not included in the monthly Books Supplement)

Great Britain and Ireland

- Water Resources Board. TN 9 (revised): Metriation. 61. T.N. 11: The Evaluation of Errors at Flow Measurement Stations. By R. W. Herschy. Pp. 31. (Reading: Water Resources Board, 1969.) [22]
- BBC Engineering Monograph No. 80: An Automatic Method for the Measurement of Reverberation Time. By Dr M. E. B. Moffat, and N. F. Spring. Pp. 18. (London: BBC, 1969.) 5s. [22]
- Accelerating Innovation. (Papers given at a Symposium held at the University of Nottingham, March 1969, arranged by Aslib in collaboration with the Ministry of Technology and the Research Associations.) Pp. 61. (London: Aslib, 1970.) 35s net (30s net to Aslib members). [22]
- Science Education in the Region—1970: a Guide to Courses in Universities, Polytechnics and Technical Colleges. Pp. 43. (London: London and Home Counties Regional Advisory Council for Technological Education, 1970.) 8s. [32]
- Bulletin of the British Museum (Natural History). Entomology. Vol. 24, No. 5: A Revision of the Genus *Catoptropteryx* Karsch (Orthoptera: Tettigoniidae). By J. Huxley. Pp. 127-170 + 1 plate. (London: British Museum (Natural History), 1970.) 30s. [42]
- British Steel Corporation. BISRA Annual Report for the year ending September 30th, 1969. Pp. 87. (London: The British Iron and Steel Research Association, 1970.) [42]
- Science Research Council. List of Research Grants Current on October 1, 1969. Pp. 123. (London: Science Research Council, 1970.) [52]
- Youth Exchanges: The Way Ahead. By Alan Evans. Prepared by Political and Economic Planning for the European Educational Research Trust. Pp. 63. (A Europe House Publication.) (London: Political and Economic Planning, 1970.) 20s. [52]
- Marconi-Elliott Microelectronics. MSI and Memory Elements Product Guide. Pp. 16. (Witham, Essex: Marconi-Elliott Microelectronics Ltd., 1970.) [52]
- Genesis Two ("Naught but Zeus")—The Semele Theory of Planetary Origin. By Douglas Rookes. Pp. 40. (London: Ardilla Books, 1970.) 10s. [62]
- Imperial College of Science and Technology (University of London). Sixty-second Annual Report of the Governing Body, 1968/1969. Pp. vi + 186. (London: Imperial College of Science and Technology, 1970.) [92]

- University of Leeds and the United Leeds Hospitals. An Experiment in Hospital Catering Using the Cook/Freeze System. Pp. 40. (Leeds: Procter Department of Food and Leather Science, The University, 1970.) [92]
- Building Research Station. Current Paper 51/69: Accuracy of Measurement with Steel Tapes. By R. M. Milner. Pp. 4. (Reprinted from *Building*, 1969, Sept. 19.) (Garston, Watford: Building Research Station, 1969.) *Gratis*. [92]
- Ministry of Transport: Road Research Laboratory. RRL Report Lit 282: Toughened Glass Windscreen Injuries in Car Occupants. By E. Grattan, N. G. Clegg and J. A. Hobbs. Pp. 6 + 6 plates. (Crowthorne, Berkshire: Road Research Laboratory, 1969.) *Gratis*. [92]

Other Countries

- Science Council of Canada. Special Study No. 8: Scientific and Technical Information in Canada, Part 2. Chapter 2: Industry. Pp. x + 80. (Ottawa: Queen's Printer, 1969.) \$1.25. [141]
- India: Council of Scientific and Industrial Research. Annual Report of the Central Mining Research Station, 1968/1969. Pp. 250. (Dhambad, Bihar: Central Mining Research Station, 1969.) Rs. 5. [141]
- Arthur D. Little, Inc., Decisions. Pp. 24. Directions. Pp. 24. (Cambridge, Mass.: Arthur D. Little, Inc., 1969.) [141]
- India. Forest Research Institute, Dehra Dun. Indian Forest Leaflet No. 182 (Timber Engineering): Test Results and Recommendations on Strength of Nail-Jointed Timber Roof Trusses for Residential Buildings. Part 1: 3 to 6 Metres, Destructive Tests. By N. J. Masani and R. K. Gupta. Pp. 14. (Delhi: Manager of Publications, 1969.) Rs. 3.40; 8s; \$1.23. [151]
- Norsk Polarinstittutt. Skrifter Nr. 148: The Turbulent Transfer over an Antarctic Ice Shelf. By Torgny E. Vinje. Pp. 55. (Oslo: Norsk Polarinstittutt, 1969.) [161]
- Trace Mineral Studies with Isotopes in Domestic Animals. (Proceedings of a Panel on the Use of Isotopes in Studies of Mineral Metabolism and Disease in Domestic Animals organized by the Joint FAO/IAEA Division of Atomic Energy in Food and Agriculture, held in Vienna, 28-31 October 1968. (Panel Proceedings Series.) Pp. 151. (Vienna: International Atomic Energy Agency; London: HM Stationery Office, 1969.) 194 schillings; 33s 4d; \$4. [161]
- Advisory Council on College Chemistry, Stanford University. Catalogue of Instructional Films (16 mm, Super 8, and 8 mm) for College Chemistry. (Serial Publication No. 42.) Pp. 196. (Stanford, Calif.: Advisory Council on College Chemistry, The University, 1969.) [161]
- International Association of Universities. 1969 World List—Universities; other Institutions of Higher Education; University Organizations. Pp. xviii + 406. (Paris: International Association of Universities, 1969.) [191]
- US Department of the Interior: Geological Survey. Water-Supply Paper 1850-B: Floods of June 1965 in South Platte River Basin, Colorado. Pp. iv + 64 + plates 1-4. (Washington, DC: Government Printing Office, 1969.) \$1. [191]
- Berichte des Deutschen Wetterdienstes. Nr. 114 (Band 24): Beitrag zum Problem der Beziehungen zwischen Wettergeschehen und Blutgerinnung. Von Paul R. Bock. Pp. 37. Nr. 115 (Band 15): Langjährige Monats- und Jahresmittel der Lufttemperatur und des Niederschlags in der Bundesrepublik Deutschland für die Periode 1931-1960. Von Hans Schirmer. (Offenbach a.M.: Selbstverlag des Deutschen Wetterdienstes, 1969.) [191]
- World Health Organization. Technical Report Series, No. 435: Biological Components of Human Reproduction: Studies of their Variations in Population Groups—Report of a WHO Scientific Group. Pp. 41. (Geneva: World Health Organization; London: HM Stationery Office, 1969.) 3 Sw. francs; 6s; \$1. [201]
- Harvard University Program on Technology and Society. Fifth Annual Report 1968/1969. Pp. 82. (Cambridge, Mass.: Harvard University, 1969.) [201]
- La Coopération Internationale: Culturelle, Scientifique et Technique—Bulletin d'Informations et de Documentation, Octobre 1969. Pp. 217. Abonnement pour les Numéros 1 et 2 (Année 1970). (Nice: Faculté de Droit et des Sciences Economiques de l'Université de Nice, 1969.) 50 francs. [201]
- Unesco. Annual Summary of Information on Natural Disasters, No. 1, 1968. Pp. 81. (Paris: Unesco, 1970.) 14 francs; 21s; \$3.50. [201]
- Science, Technology, and Public Policy: a Selected and Annotated Bibliography. Edited by Lynton K. Caldwell. Assisted by William B. DeVille and Gertrude W. Lindesmith. Vol. 2: Articles in Journals. Pp. xii + 544. (Bloomington, Indiana: The Program of Advanced Studies in Science, Technology, and Society, Department of Government, Indiana University, 1969. Prepared for the National Science Foundation.) [201]
- US Department of Commerce—Environmental Science Services Administration. Atlantic-Pacific Oceanographic Laboratories—Collected Reprints—1968. 39 reprints. (Washington, DC: Government Printing Office, 1969.) \$3.25. [211]
- Publications de l'Institut Suisse de Météorologie. Nr. 13: Contribution à la Méthodologie Granulométrique des Aérosols Amicroscopiques. Par A. Junod. Pp. 70. Nr. 14: Untersuchungen zur Quantitativen Bestimmung von Niederschlagsmengen Mittels Radar. Von J. Joss, Karin Schram, J. C. Thams und A. Waldvogel. Pp. 37. (Locarno-Monti: Centrale Meteorologica Svizzera, 1969.) [211]

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