

until their masses are reduced below the critical value. Present available information suggests that the ejected material is thrown off to infinity, and hence stars forming in the main body of nebulae such as *M* 31 or *M* 33 have masses less than 0.2 that of the sun at the time of condensation to the main series state; but the masses can afterwards increase by accretion of interstellar matter. The application of the criterion shows that we should expect both the nuclei of disk-shaped nebulae and the elliptical nebulae to be almost entirely condensed, but the main body of a disk-shaped nebula such as *M* 31 would be largely uncondensed. The highly condensed state of the nuclei of disk-shaped nebulae and elliptical nebulae receives an important application in determining the ages of the extragalactic nebulae, and Hoyle shows that these are of the order 5×10^9 years.

APPOINTMENTS VACANT

APPLICATIONS are invited for the following appointments on or before the dates mentioned:

PLANT PATHOLOGIST (Scientific Officer Grade), and a FIELD OFFICER (Experimental Officer Grade), in connexion with potato storage investigations at the University of Nottingham, Sutton Bonington—The Secretary, Agricultural Research Council, 6a Dean's Yard, London, S.W.1 (August 14).

CHARLES BROTHERTON SCHOLARSHIP and UNITED KINGDOM GAS CORPORATION SCHOLARSHIPS in the Department of Coal Gas and Fuel Industries with Metallurgy—The Registrar, The University, Leeds 2 (August 14).

TECHNICAL ASSISTANT (Grade B) in the BOTANY DEPARTMENT, chiefly for mycological work—The Secretary and Registrar, University College of North Wales, Bangor (August 14).

ASSISTANT LECTURER (Grade III) in GEOLOGY—The Secretary, The University, Edmund Street, Birmingham 3 (August 14).

RESEARCH FELLOW to lead a research group engaged on work connected with the chemical constitution of coal, and two RESEARCH WORKERS—The Secretary, The University, Birmingham 3 (August 15).

LECTURERS in (a) PHYSICS, with subsidiary Mathematics, (b) ELECTRICAL AND MECHANICAL ENGINEERING, in the Ministry of Supply School of Electronics, Malvern—The Chief Superintendent, Telecommunications Research Establishment, Great Malvern, Worcs. (August 16).

LECTURER in CIVIL ENGINEERING—The Registrar, The University, Leeds 2 (August 16).

LECTURER in the DEPARTMENT of GEOLOGY with special qualifications in Mineralogy and Petrology—The Registrar, The University, Manchester 13 (August 20).

PRINCIPAL SCIENTIFIC OFFICER to lead a team engaged in experimental and design work, involving problems of pilot plant for chemical engineering, heat transfer and development of special instrumentation and remote control methods, and SENIOR SCIENTIFIC OFFICERS for experimental and design work, involving similar problems, in the Engineering Division of the Atomic Energy Research Establishment, Harwell, Berks, under the Ministry of Supply—The Secretary, Civil Service Commission, Scientific Branch, 27 Grosvenor Square, London, W., quoting No. 2205 (August 26).

LECTURER (Grade Iic or Iib) in the DEPARTMENT of CHEMICAL ENGINEERING—The Secretary, The University, Edmund Street, Birmingham 3 (August 30).

LECTURER in PSYCHOLOGY in the University of Sydney—The Secretary, Universities Bureau of the British Empire, 8 Park Street, London, W. 1 (August 31).

DEMONSTRATORS in BIOLOGY and CHEMISTRY—The Secretary, Royal Veterinary College and Hospital, Royal College Street, London, N.W.1 (August 31).

PHYSICIST to the DEPARTMENT of RADIOTHERAPY—The Superintendent, Guy's Hospital, London, S.E.1 (August 31).

SENIOR ORGANIC CHEMIST in the Biochemistry Section for work on the organic constituents of fruit-bearing plants—The Secretary, East Malling Research Station, East Malling, Maidstone, Kent (August 31).

LECTURER in MATHEMATICS—The Registrar, University College, Southampton (September 4).

LECTURER or ASSISTANT LECTURER in MATHEMATICS, with special qualifications in Applied Mathematics—The Registrar, University College of Wales, Aberystwyth (September 4).

TUTORIAL STUDENTSHIPS in ELECTRICAL ENGINEERING, and ORGANIC CHEMISTRY in the DEPARTMENT of PHYSIOLOGY—The Registrar, King's College, Strand, London, W.C.2 (September 13).

DIRECTOR OF MUSEUMS—The Town Clerk, City Chambers, Glasgow, W.2 (September 15).

PROFESSOR of CIVIL ENGINEERING in Natal University College—The Secretary, Universities Bureau of the British Empire, 8 Park Street, London, W.1 (September 15).

MULLARD READERSHIP in ELECTRONICS at the Imperial College of Science and Technology—The Academic Registrar, University of London, Senate House, London, W.C.1 (September 15).

LECTURER in GRAPHICS and MACHINE DRAWING, a LECTURER in ENTOMOLOGY, a SENIOR LECTURER in ORGANIC CHEMISTRY, and a SENIOR LECTURER in INORGANIC CHEMISTRY—The Registrar, Rhodes University College, Grahamstown, South Africa (September 15).

SENIOR LECTURER in the DEPARTMENT of BOTANY—The Registrar, The University, Manchester 13 (September 17).

READERSHIP in MATHEMATICS at Birkbeck College—The Academic Registrar, University of London, Senate House, London, W.C.1 (September 22).

READERSHIP in CIVIL ENGINEERING at King's College, Strand—The Academic Registrar, University of London, Senate House, London, W.C.1 (October 1).

ECONOMIC BOTANIST in the DEPARTMENT of AGRICULTURE, British Guiana, to take charge of the Central Rice Station—The Director of Recruitment, Colonial Service, 15 Victoria Street, London, S.W.1.

TECHNICIAN in CHEMISTRY DEPARTMENT—The College of the Pharmaceutical Society, 17 Bloomsbury Square, London, W.C.1.

ECOLOGIST in the TSETSE CONTROL DEPARTMENT, Government of Uganda—The Director of Recruitment, Colonial Service, 15 Victoria Street, London, S.W.1.

CONTROLLER OF AGRICULTURE in CYRENAICA—The War Office, C.4(E), Room 447, Metropole Buildings, Northumberland Avenue, London, W.C.2.

ENTOMOLOGISTS for advisory and research work on crop pests and special research on the sisal weevil, on the staff of the Government of Tanganyika—The Director of Recruitment, Colonial Service, 15 Victoria Street, London, S.W.1.

LIGHTING ENGINEERS, HEATING and VENTILATION ENGINEERS, and TECHNICAL RESEARCH OFFICERS, in the Factory Standards and Design Branch of the Australian Department of Labour and National Service—Mr. T. C. Graham, Australia House, Strand, London, W.C.2.

GAME RANGER in Tanganyika, and a GAME WARDEN in the Gold Coast—The Director of Recruitment, Colonial Service, 15 Victoria Street, London, S.W.1.

HEAD OF THE COLLEGE—The Clerk, National College of Rubber Technology, Northern Polytechnic, Holloway Road, London, N.7.

CHIEF COMPUTER in the SURVEY DEPARTMENT, Nigeria—The Director of Recruitment, Colonial Service, Colonial Office, Sanctuary Buildings, Great Smith Street, London, S.W.1.

LECTURER in MATHEMATICS in the University of Otago, Dunedin—The High Commissioner for New Zealand, 415 Strand, London, W.C.2.

SENIOR LABORATORY STWARD (chemistry and biology)—The Bursar, Merchant Taylors' School, Sandy Lodge, Northwood, Middx.

RESEARCH ASSISTANTS (2, men or women) in the Department of Chemistry for work in physical-organic chemistry—The Professor of Chemistry, Royal Holloway College, Englefield Green, Surrey.

LECTURER or an ASSISTANT LECTURER in GEOLOGY—The Registrar, The University, Nottingham.

ASSISTANT MANAGER of the acid and ammonia works at Phoenix Wharf, East Greenwich—The Secretary, South Metropolitan Gas Co., 709 Old Kent Road, London, S.E.5, endorsed 'Assistant Manager—Chemical Works'.

REPORTS and other PUBLICATIONS

(not included in the monthly Books Supplement)

Great Britain and Ireland

An Index to Modern Remedies. By William Mair. Fourth Series. Pp. 68. (Glasgow: The Scottish Chemist, 1948.) 3s. [245]

Scottish Council (Development and Industry). Report of the Committee on the Chemical Industry of Scotland. Pp. 39. (Edinburgh: Scottish Council, 1948.) 2s. [255]

The Training of a Doctor. Report of the Medical Curriculum Committee of the British Medical Association. Pp. 152. (London: Butterworth and Co. (Publishers), Ltd., 1948.) 7s. 6d. net. [255]

Ministry of Fuel and Power. Fuel and the Future: Proceedings of a Conference held in London on October 8th-10th, 1946, under the auspices of the Fuel Efficiency Committee. Vol. 1. Pp. vi+370. 6s. net. Vol. 2. Pp. vi+374. 6s. net. Vol. 3. Pp. vi+211. 3s. 6d. net. (London: H.M. Stationery Office, 1948.) [255]

Standard Valves. Pp. 328. (London: Standard Telephones and Cables, Ltd., 1947.) 15s. [255]

Commonwealth Bureau of Soil Science. Technical Communication No. 44: The Spectrographic Analysis of Soils, Plants and related Materials. By R. L. Mitchell. Pp. v+183. (Aberystwyth: Commonwealth Agricultural Bureaux, 1948.) 12s. 6d. [275]

The Protection of Workers from Radiation Hazards in Atomic Energy Plants and other Establishments using Radioactive Substances. Prepared by the Atomic Sciences Committee, Association of Scientific Workers. Pp. 24. (London: Labour Research Department, 1948.) 1s. [275]

Other Countries

Science and Public Policy. Vol. 1: A Program for the Nation. A Report to the President by John R. Steelman. Pp. x+73. 20 cents. Vol. 2: The Federal Research Program. A Report to the President by John R. Steelman. Pp. viii+318. 55 cents. Vol. 3: Administration and Research. A Report to the President by John R. Steelman. Pp. viii+324. 55 cents. Vol. 4: Manpower for Research. A Report to the President by John R. Steelman. Pp. viii+166. 35 cents. Vol. 5: The Nation's Medical Research. A Report to the President by John R. Steelman. Pp. x+118. 25 cents. (Washington, D.C.: Government Printing Office, 1947.) [275]

Special Publication of the Royal Society of South Africa. Robert Broom Commemorative Volume. Edited on behalf of the Society and the Bernard Price Foundation of the University of the Witwatersrand by Alex. L. Du Toit. Pp. v+257. (Cape Town: Royal Society of South Africa, 1948.) 22s. [26]

Nauka Polska: jej Potrzeby, Organizacja i Rozwój (Science and Letters in Poland: their Needs, Organization and Progress). Tom 25. Pp. x+590. (Warszawa: Kasy Imienia Mianowskiego, 1947.) [36]

East Africa High Commission. Paper No. 1: Fauna of British Eastern and Central Africa. (Proceedings of a Conference held in Nairobi on 8th and 9th May, 1947.) Pp. 74. (Nairobi: Government Printer, 1948.) 2s. 6d. [36]

Physiologia Comparata et Oecologia: an International Journal of Comparative Physiology and Ecology. (Quarterly.) Vol. 1, No. 1, April 15, 1948. Pp. 64. (Den Haag: Dr. W. Junk, 1948.) 36 fl. per Vol. [36]