

Type II (Type I, as postulated by v. Kries and Hering, being vaguely described as acquired total colour blindness and total colour blindness respectively). As the method of approach followed in this communication is strictly in accordance with the principles laid down by the Young-Helmholtz theory, which in a slightly modified form fully accounts for dichromatism⁴, there is no reason why this latter theory should not be extended to cover monochromatism. Type I would be classified as blue-blindness with red and green fusion, Type II as blue and red blindness. Persons having Type I defect would produce a luminosity curve similar to the deuteranopic luminosity curve, but with the relatively small ordinates of the blue luminosity curve subtracted. Such persons have been reported previously, but full luminosity values do not appear to have been measured although the maximum of their luminosity curve is stated to be at $\lambda = 0.56 \mu$, which is in agreement with the above postulate. Persons having Type II defect will produce a luminosity curve as given in the accompanying graph. No other types of monochromat are suggested by any theory or have been reported.

It may be that the recorded occurrence of tritanopia, namely, 0.001 per cent, does not represent the true value, and that this apparently low figure is due in some measure to the fact that the usual forms of colour-vision tests do not adequately cater for this defect. If this is so, the probability of the occurrence of the two forms of monochromatism, namely, one person in every one hundred million, is also too low. Once again the nature of the colour tests normally used would tend to obscure the true figure.

¹ Judd, D. B., *J. Opt. Soc. Amer.*, **33**, 294 (1943).

² Wright, W. D., and Granit, R., "On the Correlation of Some Sensory and Physiological Phenomena of Vision". (Published for the *Brit. J. of Ophthalmology, Ltd.*) (George Pulman, London, 1938).

³ Wright, W. D., *Trans. Opt. Soc. London*, **29**, 225 (1927).

⁴ Pitt, F. H. G., *Proc. Roy. Soc.*, **B**, **132**, 101 (1944).

FORTHCOMING EVENTS

Saturday, October 7

GEOLOGISTS' ASSOCIATION (at the Geological Society of London, Burlington House, Piccadilly, London, W.1), at 2.30 p.m.—Mr. A. D. Lacaille: "The Northward March of Palaeolithic Man in Britain".

Monday, October 9

BRITISH MUSEUM (NATURAL HISTORY) (in the Board Room, Cromwell Road, South Kensington, London, S.W.7), at 2.30 p.m.—Dr. J. Ramsbottom: "Edible Fungi".

CHEMICAL SOCIETY (LEEDS AREA LOCAL SECTION) (in the Chemistry Lecture Theatre, The University, Leeds), at 6.30 p.m.—Dr. W. H. Thompson: "Some Trends in Chemical Spectroscopy and the Study of Large Molecules".

Tuesday, October 10

ROYAL ANTHROPOLOGICAL INSTITUTE (at 21 Bedford Square, London, W.C.1), at 1.30 p.m.—Mr. H. N. C. Stevenson: "The Case for Applied Anthropology in the Reconstruction of Burma".

ILLUMINATING ENGINEERING SOCIETY (at the E.L.M.A. Lighting Service Bureau, 2 Savoy Hill, London, W.C.2), at 5 p.m.—Mr. E. Stroud: Presidential Address.

SHEFFIELD METALLURGICAL ASSOCIATION (at 198 West Street, Sheffield, 1), at 6.30 p.m.—Mr. W. H. Salmon: "The Metallurgist in the Foundry".

Wednesday, October 11

BRITISH MUSEUM (NATURAL HISTORY) (in the Board Room, Cromwell Road, South Kensington, London, S.W.7), at 2.30 p.m.—Dr. J. Ramsbottom: "Edible Fungi".

INSTITUTION OF ELECTRICAL ENGINEERS (RADIO SECTION) (at Savoy Place, Victoria Embankment, London, W.C.2), at 5.30 p.m.—Mr. H. L. Kirke: Inaugural Address as Chairman.

Thursday, October 12

INSTITUTE OF FUEL (at the Connaught Rooms, Great Queen Street, London, W.C.2), at 2.15 p.m.—Dr. E. W. Smith: Melchett Lecture.

INSTITUTION OF ELECTRICAL ENGINEERS (INSTALLATIONS SECTION) (at Savoy Place, Victoria Embankment, London, W.C.2), at 5.30 p.m.—Mr. G. O. Watson: Inaugural Address as Chairman.

Friday, October 13

BRITISH MUSEUM (NATURAL HISTORY) (in the Board Room, Cromwell Road, South Kensington, London, S.W.7), at 2.30 p.m.—Dr. J. Ramsbottom: "Edible Fungi".
(The lecture will be repeated on Mondays, Wednesdays and Fridays until the end of October.)

SOCIETY OF CHEMICAL INDUSTRY (at the Royal Institution, Albermarle Street, London, W.1), at 2.30 p.m.—Prof. A. V. Hill, F.R.S.: "Science in India".

ROYAL ASTRONOMICAL SOCIETY (at Burlington House, Piccadilly, London, W.1), at 4.30 p.m.—Prof. J. Proudman, F.R.S.: "The Tides of the Atlantic Ocean" (George Darwin Lecture).

ASSOCIATION OF AUSTRIAN ENGINEERS, CHEMISTS AND SCIENTIFIC WORKERS IN GREAT BRITAIN (at the Austrian Centre, 69 Eton Avenue, Hampstead, London, N.W.3), at 6.45 p.m.—Dr. J. Coultts and Dr. Medwei: "Therapeutics in Austria and Great Britain".

INSTITUTE OF PHYSICS (SCOTTISH BRANCH) (in the Natural Philosophy Department, The University, Glasgow), at 7 p.m.—Sir Lawrence Bragg, F.R.S.: "The Physics of the Solid State".

Saturday, October 14

ASSOCIATION FOR SCIENTIFIC PHOTOGRAPHY (at Caxton Hall, Westminster, London, S.W.1), at 2.30 p.m.—Mr. H. Emmett: "Cinematography of Crystal Growth"; Mr. R. McV. Weston: "Cinematography in Biological Research".

APPOINTMENTS VACANT

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

ASSISTANT ENGINEERS for the British Guiana Government Public Works Department—The Ministry of Labour and National Service, Room 432, Alexandra House, Kingsway, London, W.C.2 (quoting Reference No. E.1055.A) (October 9).

TUTOR or ASSISTANT TUTOR (temporary) IN THE DEPARTMENT OF SOCIAL SCIENCE of the London School of Economics and Political Science—The Acting Secretary, The Hostel, Peterhouse, Cambridge (October 12).

ASSISTANT IN THE MECHANICAL AND ELECTRICAL ENGINEERING DEPARTMENT—The Principal, Harris Institute, Preston (October 12).
SCIENCE LECTURER (full-time) IN THE DEPARTMENT OF BUILDING of the Liverpool Technical College—The Director of Education, 14 Sir Thomas Street, Liverpool, 1 (October 13).

LECTURER (temporary) IN THE SCIENCE DEPARTMENT of the Croydon Polytechnic—The Education Officer, Education Offices, Katharine Street, Croydon (October 13).

ENGINEER (suitably qualified and experienced) for a full-time post in connexion with Production Engineering Courses, and an ENGINEER (suitably qualified and experienced) for a full-time teaching post in connexion with Ordinary National Certificate and Higher National Certificate Courses in part-time day and evening classes, in the Department of Mechanical and Automobile Engineering of Doncaster Technical College—The Chief Education Officer, Education Offices, Doncaster (October 14).

ASSISTANT SPEECH THERAPIST (whole-time)—The Chief Education Officer, 2 Cecil Road, Bristol 8 (October 14).

LECTURESHIP IN THE ENGINEERING DEPARTMENT of the County Technical College, Wednesbury—The Director of Education, County Education Offices, Stafford (October 14).

RESEARCH ASSISTANT IN THE VETERINARY LABORATORY of the AGRICULTURAL DEPARTMENT—The Registrar, King's College, Newcastle-upon-Tyne (October 14).

RESPONSIBLE TEACHER OF ENGINEERING, an ENGINEERING WORKSHOP INSTRUCTOR and STEWARD, and a TEACHER OF PHYSICS, in the Junior Technical School and in Senior Part-time Classes at the Batley Technical College and School of Art—The Director of Education, Education Offices, Batley, Yorks. (October 16).

CHIEF ENGINEER for the Town Council of New Amsterdam, Berbice, British Guiana—The Ministry of Labour and National Service, Room 432, Alexandra House, Kingsway, London, W.C.2 (quoting Reference No. C.2296.A) (October 16).

CHEMICAL ENGINEER, experienced in design and installation of chemical manufacturing plant, for supervisory post in London—The Ministry of Labour and National Service, Room 432, Alexandra House, Kingsway, London, W.C.2 (quoting Reference No. C.2292.XA) (October 16).

HEAD OF THE CHEMISTRY AND APPLIED CHEMISTRY DEPARTMENT—The Principal, Royal Technical College, Peel Park, Salford, 5 (October 16).

LECTURER (full-time) IN CHEMISTRY—The Director of Education, The Polytechnic, 309 Regent Street, London, W.1 (October 16).

ASSISTANT MASTER IN MINING SUBJECTS in the Coalville Mining and Technical College—The Director of Education, County Education Office, Grey Friars, Leicester (October 17).

TEACHER to take charge of BIOLOGY CLASSES and to assist with ELEMENTARY SCIENCE SUBJECTS—The Principal, Harris Institute, Preston (October 18).

PROFESSOR OF PHYSICS—The Registrar, University College, Singleton Park, Swansea (October 18).

ASSISTANT LECTURER IN THE MECHANICAL ENGINEERING DEPARTMENT of the Belfast College of Technology—The Director of Education, Education Office, College of Technology, Belfast (October 30).

CHADDOCK CHAIR OF ECONOMICS—The Registrar, The University, Liverpool (December 29).

LECTURER IN GEOGRAPHY at the Furzedown Training College (evacuated to the University of South Wales, Cardiff)—The Principal, 29 Corbett Road, Cathays Park, Cardiff.

TEACHER (male, Graduate) OF MATHEMATICS with, if possible, subsidiary GEOGRAPHY—The Principal, Technical High School, Cole Street, Scunthorpe.