

derived from the Echaillon springs, thorium emanation has been used directly by inhalation, and the therapeutic results obtained proved to be comparable with those given by other methods of treatment.—Jean Bathellier: The fungus gardens of *Entermes Matangensis*. These ants cultivate fungi (identified as a Xylaria) in special chambers.—G. Marinesco: Oxidising ferments and thermogenesis.—F. Viés, J. Dragoin, and M. Rose: Researches on the hydrogen-ion concentration arrest of egg division in the sea urchin.—L. J. Simon and L. Zivy: The mixture of tartrates and phosphates regarded as buffer substances. The antagonistic action of calcium chloride.—Emile Misk: Tin in the human organism. Reference is made to the frequent presence of traces of tin in preserved foods. Tin appears to be present in the human body, the largest proportion being found in the liver. From the physiological point of view it is interesting to note that the body appears to contain normally at least as much tin as zinc.—Boris Ephrussi: The spermatogenesis of *Balanus perforatus*.—A. Trillat: The different properties of dry or liquid bacterial dusts.—C. Levaditi and S. Nicolau: Inoculation of the herpetic virus in the genital organs of the rabbit. Transmission of the herpetic-encephalitic infection by sexual contact.

Official Publications Received.

Memoirs of the Asiatic Society of Bengal. Vol. 8, No. 1: Ismailitica. By W. Ivanow. Pp. 76. (Calcutta: Asiatic Society of Bengal.) 2 rupees; 3s.

City and County of Bristol: The Bristol Museum and Art Gallery. Report of the Museum and Art Gallery Committee for the Year ending 30th September 1922. Pp. 23. (Bristol.)

Diary of Societies.

MONDAY, FEBRUARY 5.

ROYAL INSTITUTION OF GREAT BRITAIN, at 5.—General Meeting.
ROYAL COLLEGE OF SURGEONS OF ENGLAND, at 5.—Prof. H. E. Griffiths: The Relation of Diseases of the Gall Bladder to the Secretary Function of the Stomach and Pancreas.
SOCIETY OF ENGINEERS, Inc. (at Geological Society), at 5.30.—A. Collis-Brown: Practical Notes on Inspection.
INSTITUTE OF TRANSPORT (at Institution of Electrical Engineers), at 5.30.—H. N. Gresley: Wagon Stock on British Railways.
INSTITUTION OF ELECTRICAL ENGINEERS (Informal Meeting), at 7.—J. Coxon and others: Discussion, The Supply of Steady D.C. for Telephonic and other Purposes.
ARISTOTELIAN SOCIETY (at University of London Club), at 8.—Miss May Sinclair: Primary and Secondary Consciousness.
ROYAL SOCIETY OF ARTS, at 8.—Dr. H. P. Stevens: The Vulcanisation of Rubber (Cantor Lectures) (1).
SOCIETY OF CHEMICAL INDUSTRY (London Section) (at Engineers' Club, Coventry Street), at 8.—G. T. Bray and F. Major: The Estimation of Fat in Casein.—Dr. E. Fyfe: Explosions in Liquid Air Rectification Plant.
ROYAL INSTITUTE OF BRITISH ARCHITECTS, at 8.30.—Presidential Address to Students and Presentation of Prizes.

TUESDAY, FEBRUARY 6.

AIR CONFERENCE (at the Guildhall, E.C.), at 10.30.—Maj.-Gen. Sir W. J. Brancker: The Position of Air Transport To-day.—Comdr. C. D. Burney: A Self-supporting Airship Service. At 2.45.—Air Vice-Marshal Sir W. G. H. Salmond: The Progress of Research and Experiment.—Col. A. Ogilvie: Gliders and their Value to Aeronautical Progress.—C. R. Fairey: Seaplanes.
INSTITUTION OF HEATING AND VENTILATING ENGINEERS (Annual General Meeting) (at the Holborn Restaurant), at 2.30.—Prof. W. E. Garner: Theory of Combustion of Gaseous and Liquid Fuels.
ROYAL INSTITUTION OF GREAT BRITAIN, at 9.—R. D. Oldham: The Character and Cause of Earthquakes (2).
ROYAL SOCIETY OF ARTS (Dominions and Colonies and Indian Sections), at 4.30.—Sir Richard A. S. Redmayne: The Base Metal Resources of the British Empire.
ZOOLOGICAL SOCIETY OF LONDON, at 5.30.—The Secretary: Report on the Additions made to the Society's Menagerie during the months of November and December 1922.—E. G. Boulenger: Account of Experiments on Amphibians and Insects at Vienna.—C. A. A. Dighton: Colour in Greyhounds.—E. L. Gill: The Permian Fishes of the Genus *Acentrophorus*.—Dr. C. F. Sonntag: The Vagus and Sympathetic Nerves of the Terrestrial Carnivora.—E. P. Allis, Jr.: The Postorbital Articulation of the Palato-quadrate with the Neurocranium in the Coelacanthidae.—Dr. G. S. Giglioli: The Linguatulid Arachnid, *Baillietiella furcocerca* (Diesing, 1835). Sambon, 1922.—Rita Markbreiter: Some *Microflaria* found in the Blood of Birds dying in the Zoological Gardens, 1920-1922.
INSTITUTION OF CIVIL ENGINEERS, at 6.—D. H. Kemfry: Wind-Pressures, and Stresses caused by the Wind on Bridges.
ROYAL ANTHROPOLOGICAL INSTITUTE, at 8.15.—Major O. Rutter: The Natives of North Borneo.
RÖNTGEN SOCIETY (at Institution of Electrical Engineers), at 8.15.

WEDNESDAY, FEBRUARY 7.

AIR CONFERENCE (at the Guildhall, E.C.), at 10.30.—General Discussion on the Papers read in the morning of February 6. At 2.45, General Discussion on the Papers read in the afternoon of February 6.
ROYAL COLLEGE OF SURGEONS OF ENGLAND, at 5.—Prof. G. Keynes: Chronic Mastitis.
GEOLOGICAL SOCIETY OF LONDON, at 5.30.—G. V. Douglas: The Geological Results of the Shackleton-Rowett (*Quest*) Expedition.
NEWCOMEN SOCIETY (at Alpine Club), at 5.30.—G. P. Baker: East Indian Cotton Prints and Paintings of the 17th and 18th Centuries.
INSTITUTION OF ELECTRICAL ENGINEERS (Wireless Section), at 6.—J. Hollingworth: The Measurement of the Electric Intensity of Received Radio Signals.
SOCIETY OF PUBLIC ANALYSTS AND OTHER ANALYTICAL CHEMISTS (Annual General Meeting) (at Chemical Society), at 8.—Presidential Address.—O. Jones: Notes on the Examination of Preserved Meats, etc.—E. Griffiths-Jones: Titanium in Nile Silt.
ROYAL SOCIETY OF ARTS, at 8.—C. R. Darling: Electrical Resistance Furnaces and their Uses.
FELLOWSHIP OF MEDICINE (at Royal Society of Medicine), at 8.30.—J. P. Lockhart-Mummery: Diverticulitis.

THURSDAY, FEBRUARY 8.

ROYAL INSTITUTION OF GREAT BRITAIN, at 3.—Prof. I. M. Heilbron: The Photosynthesis of Plant Products (2).
ROYAL SOCIETY, at 4.30.—Prof. L. Baird-Stow, Miss M. B. Cave, and Miss E. D. Lang: The Resistance of a Cylinder moving in a Viscous Fluid.—G. I. Taylor: The Motion of Ellipsoidal Particles in a Viscous Fluid.—L. F. Richardson: Theory of the Measurement of Wind by Shooting Spheres Upward.—Prof. W. E. Dalby: Further Researches on the Strength of Materials.—L. C. Jackson and Prof. H. Kamerlingh Onnes: Investigations on the Paramagnetic Sulphates at Low Temperatures.—L. C. Jackson and Prof. H. Kamerlingh Onnes: Investigations on the Paramagnetism of Crystals at Low Temperatures.—Prof. E. Wilson: The Susceptibility of Feebly Magnetic Bodies as affected by Tension.—W. D. Womersley: The Specific Heats of Air, Steam, and Carbon Dioxide.
WOMEN'S ENGINEERING SOCIETY (26 George Street, W.1.), at 6.15.—E. W. C. Kearney: The Kearney High-speed Railway.
OPTICAL SOCIETY (Annual General Meeting) (at Imperial College of Science and Technology), at 7.30.—Sir Frank Dyson: Large Telescopes (Presidential Address).—Discussion on paper by F. W. Preston: The Properties of Pitch used in Working Optical Glass. A new *prismatic astrolabe* designed at the Admiralty Research Laboratory exhibited and described by Comdr. T. Y. Baker.
CAMERA CLUB, at 8.15.—C. H. L. Emanuel: Notes of a Collector of Prints and Drawings.

INSTITUTE OF METALS (London Local Section) (at Institute of Marine Engineers, Inc.), at 8.30.—Miss M. L. V. Gayler: The Investigation of the Constitution of Alloys.

FRIDAY, FEBRUARY 9.

ROYAL ASTRONOMICAL SOCIETY, at 5.—Anniversary.
PHYSICAL SOCIETY OF LONDON (Annual General Meeting) (at Imperial College of Science and Technology), at 5.—Sir William Bragg: The Crystalline Structure of Anthracene.—Capt. H. Shaw and E. Lancaster-Jones: The Eötvös Torsion Balance.—H. W. Heath: Demonstration of the Flame Phone.
ROYAL COLLEGE OF SURGEONS OF ENGLAND, at 5.—Prof. L. R. Rawling: Remote Effects of Gun hot Wounds of the Head.
MALACOLOGICAL SOCIETY OF LONDON (at Linnean Society), at 6.
INSTITUTION OF MECHANICAL ENGINEERS, at 6.—Adjourned Discussion on Symposium of Papers on Indicators.—L. Pendred: The Problems of the Engine Indicator.—Prof. F. W. Bursall: A New Form of Optical Indicator.—W. G. Collins: Micro-Indicator for High-Speed Engines.—H. Wood: R.A.E. Electrical Indicator for High-Speed Internal-Combustion Engines, and Gauge for Maximum Pressures.
JUNIOR INSTITUTION OF ENGINEERS, at 7.30.—Prof. F. C. Lea: The Effect of Temperature on the Properties of Engineering Materials.
PHILOLOGICAL SOCIETY (at University College), at 8.—J. Hodgkin: Macaronic Poetry.
ROYAL INSTITUTION OF GREAT BRITAIN, at 9.—Sir John Russell: "Rothamsted" and Agricultural Science.

PUBLIC LECTURES.

SATURDAY, FEBRUARY 3.

HORNIMAN MUSEUM (Forest Hill), at 3.30.—F. Balfour-Browne: Insect Pests and their Control.

MONDAY, FEBRUARY 5.

KING'S COLLEGE, at 5.—N. B. Jopson: The Original Home of the Slavs.
UNIVERSITY COLLEGE, at 5.—Sir John Russell, and staff of the Rothamsted Experimental Station: The Micro-Organic Population of the Soil (succeeding Lectures on February 7, 12, 14, 19, 21, 27, March 1, 5, and 7).

TUESDAY, FEBRUARY 6.

GRESHAM COLLEGE, at 6.—W. H. Wagstaff: Geometry (succeeding Lectures on February 7, 8, and 9).

WEDNESDAY, FEBRUARY 7.

KING'S COLLEGE, at 5.30.—Dr. J. S. Haldane: The Fundamental Conceptions of Biology.

THURSDAY, FEBRUARY 8.

UNIVERSITY COLLEGE, at 5.30.—G. A. Sutherland: The Acoustics of the Auditorium. (Succeeding Lectures on February 15 and 22.)
CENTRAL LIBRARY (Fulham), at 8.—Mrs. G. Skelton: Women and Industry.

FRIDAY, FEBRUARY 9.

UNIVERSITY COLLEGE, at 8.—Miss E. Jeffries Davis: The Evolution of London (succeeding Lectures on February 16 and 23).

SATURDAY, FEBRUARY 10.

HORNIMAN MUSEUM (Forest Hill), at 3.30.—E. Lovett: Household Appliances of a Hundred Years Ago.