

not hydrolysed at the ordinary temperature; whilst with saccharose and raffinose the lævulose is completely split off after sufficient time at the ordinary temperature or after one hour at 98° C.—L. **Cayeux**: The secondary quartz and the rhombohedral quartz in the iron minerals of the Longwy-Briey basin.—R. **Abrard**: The existence of the Aalenian stage in the massif of Zerhoun and at Djebel Tselfat (Western Morocco).—P. **Russo**: The alluvial terraces of Oumer Rbia (Western Morocco).—L. **Daniel**: Antagonistic reactions and the rôle of the pad in grafted plants.—A. **Guilliermond**: The structure of the plant-cell. Reply to a recent communication of M. Dangeard.—M. **Dangeard**: Reply to the preceding note.—E. **Licent**: The use of mixtures of formal and chromium compounds as fixing agents. Three formulæ are given for fixing reagents containing formal, chromic acid, and acetic acid in different proportions. Although the use in the same liquid of a powerful oxidising agent and a reducing substance would appear to be irrational, long experience has shown that such mixtures give excellent results.—E. **Roubaud**: The use of trioxymethylene in powder for the destruction of the larvæ of mosquitoes. Trioxymethylene exerts a specific toxic action on these larvæ, and has advantages over petroleum and other reagents in use. Detailed instructions for the best application of the trioxymethylene are given.—J. **Nageotte**: The toxicity of certain dead heterogeneous grafts.—A. **Goris**: The chemical composition of the tubercle bacillus. A new substance has been obtained from tubercle bacilli by extraction with chloroform and subsequent purification by precipitation from chloroform solution with ether, the fats remaining in solution in the ether and the new substance, named hyalinol, being precipitated. Seven grams were obtained from 1500 grams of the bacilli. An analysis and some reactions of the hyalinol are given.—R. **Ducloux**: The formation of asporogenic races of *Bacillus anthracis*. The attenuation of its virulence.—MM. A. **Trillat** and **Mallein**: Experiments on the transmission of an infectious disease in animals by the intermediary of air. Influence of the temperature.—MM. A. **Mayer**, **Guleysse**, **Plantefol**, and **Fauré-Fremiet**: Pulmonary lesions determined by blistering compounds. Studies on the pulmonary lesions caused by the inhalation of vaporised or pulverised dichloroethyl sulphide on the dog, rabbit, and guinea-pig.

### Books Received.

Techno-Chemical Receipt Book. Compiled and edited by W. T. Brant and Dr. W. H. Wahl. Pp. xxxiii+516. (London: Hodder and Stoughton, Ltd.) 15s. net.

Psychoneuroses of War and Peace. By Dr. M. Culpin. Pp. vii+127. (Cambridge: At the University Press.) 10s. net.

Reports of the Department of Conservation and Development, State of New Jersey. Annual Report for the Year ending June 30, 1919. Pp. 115. (Trenton, N.J.)

The Science Reports of the Tôhoku Imperial University. 1st Series. (Mathematics, Physics, Chemistry.) Vol. ix., No. 2, April. (Tokyo: Maruzen Co., Ltd.)

Meddelanden från Lunds Astronomiska Observatorium. Serie ii., Nr. 22: A Study of the Stars of Spectral Type A. By H. G. Malmquist. Pp. 69. (Lund.)

The Journal of the Royal Agricultural Society of England. Vol. lxxx. Practice with Science. Pp. viii+438+cli. (London: J. Murray.) 10s.

NO. 2645, VOL. 105]

### Diary of Societies.

THURSDAY, JULY 8.

ROYAL SOCIETY OF MEDICINE (Obstetrics and Gynæcology Section), at 8.—G. Ley: The Pathology of Accidental Hæmorrhage.

FRIDAY, JULY 9

WEST LONDON MEDICO-CHIRURGICAL SOCIETY (at the West London Hospital), at 5.—Annual General Meeting.

SATURDAY, JULY 10.

PHYSIOLOGICAL SOCIETY (at Physiological Laboratory, University, Oxford), at 4.—J. B. Leathes and H. C. Broadhurst: Excretion of Phosphate.—J. Barcroft and F. J. Roughton: Diffusion Co-efficient of Lung.—S. P. L. Sørensen and E. J. Cohn: Solubility of Globulin.—A. Krogh: Reaction of Blood Vessels to Local Stimuli.

TUESDAY, JULY 13.

SOCIETY FOR THE STUDY OF INEBRIETY (at the Medical Society of London), at 4.—A. Evans and Others: Discussion on Alcohol and Alcoholism in relation to Venereal Disease.

WEDNESDAY, JULY 14.

INSTITUTION OF PETROLEUM TECHNOLOGISTS (in Canada Building, Crystal Palace), at 6.—H. Barringer: Oil Storage, Transport, and Distribution (Free Public Lecture).

THURSDAY, JULY 15.

ROYAL SOCIETY OF MEDICINE (Dermatology Section), at 5.  
RÖNTGEN SOCIETY (at University College), at 9.—Dr. W. D. Coolidge: Address (Special Open Meeting).

### CONTENTS.

PAGE

Medical Education . . . . .	573
The Theory and Facts of Colour Vision . . . . .	575
Hydrographical Surveying . . . . .	576
Forestry, Tree Diseases, and Timber . . . . .	577
Our Bookshelf . . . . .	579
Letters to the Editor:—	
Weather Forecasts and Meteorology.—A. Mallock, F.R.S. . . . .	580
The Rate of Ascent of Pilot-Balloons. ( <i>With Diagram</i> ).—J. S. Dines . . . . .	581
Diamagnetism and the Structure of the Hydrogen Molecule.—Dr. A. E. Oxley . . . . .	581
University Stipends and Pensions.—G. W. O. H. . . . .	582
The Separation of the Isotopes of Chlorine.—Angus F. Core . . . . .	582
The Island of Stone Statues. ( <i>Illustrated</i> ). By Sir Everard im Thurn, K.C.M.G., K.B.E. . . . .	583
The Blue Sky and the Optical Properties of Air. By The Right Hon. Lord Rayleigh, F.R.S. . . . .	584
The Future of the Iron and Steel Industry in Lorraine. By Prof. H. C. H. Carpenter, F.R.S. . . . .	588
Obituary . . . . .	590
Notes . . . . .	590
Our Astronomical Column:—	
Commencement of the Great Perseid Shower of Meteors . . . . .	595
The Expanding Disc of Nova Aquilæ . . . . .	595
The New Minor Planet GM . . . . .	595
Annual Visitation of the National Physical Laboratory . . . . .	595
The Carnegie Foundation and Teachers' Pensions . . . . .	596
National Food Consumption in the United States. By M. G. . . . .	597
Engineering Research in the U.S.A. By A. P. M. Fleming, C.B.E. . . . .	598
African Softwoods for Pulp Production. By A. H. Unwin . . . . .	599
Effect of Topography on Precipitation in Japan. By W. W. B. . . . .	599
Economic Entomology in the Philippines. By O. H. L. . . . .	600
Climate of the Netherlands . . . . .	600
The Present Condition of the Aborigines of Central Australia. By E. N. Fallaize . . . . .	601
University and Educational Intelligence . . . . .	601
Societies and Academies . . . . .	602
Books Received . . . . .	604
Diary of Societies . . . . .	604