

properties on water in a few minutes. Such treated water, after one to three hours contact, kills bacilli of coli, cholera, paratyphoid, typhoid and staphylococcus. The bactericidal property remains after boiling. No taste is imparted to the water, and from experiments on mice it would appear that it has no injurious effects on the organism.

#### CRAKOW

Polish Academy of Science and Letters, July 1. W. M. JEZEWSKI, M. WIERZBICKI and J. KAMECKI: The dielectric constants of strong electrolytes of low concentrations at varying temperatures. The experimental results obtained with solutions of sodium chloride, potassium chloride, magnesium sulphate and barium ferrocyanide are in good agreement with the theory of Debye and Falkenhagen, if the orientation of the dipoles by the intense field of the ions is taken into account. T. PIECH: The dielectric polarisation of some alums. B. MILIANCZUK: The radiation of a magnetic dipole. B. MILIANCZUK: The diffraction of light in the neighbourhood of the lines of the magnetic dipoles. MME. W. CZAPSKA-NARKIEWICZ: The absorption spectra and fluorescence of some coumarin derivatives. B. KAMIENSKI and W. GOSLAWSKI: The influence of hydrogen ions on the dielectric potential and surface tension of solutions of some organic substances. L. MARCHLEWSKI and B. SKARZYNSKI: Absorption of ultra-violet rays by certain organic substances (40). L. MARCHLEWSKI and B. DABROWSKI: The determination of very small quantities of zinc by the spectrographic method. ST. KREUTZ: Calcites and other minerals characterised by their luminescence. K. DZIEWONSKI, L. GIZLER and J. MOSZEW: The reactions of some mixed aromatic ketones with bisubstituted thiourea derivatives containing different aromatic radicals. T. DOMANSKI and J. SUSZKO (1): Some transformations of the isoquinidines. (2) Niquidine. H. TELEZYNSKI: Cytological studies on an unstable strain of *Petunia violacea*. ST. MARKOWSKI: The parasite worms of *Gobius minutus* of the Polish Baltic. MME. IRENE LATINIK-VETULANI: Experimental researches on anoxibiosis in the different stages of development of *Rana fusca*.

#### ROME

Royal National Academy of the Lincei, April 7. MARGHERITA PIAZZOLLA-BELOCH: The asymptotes of a plane algebraic curve in relation to the theory of diameters. B. COLOMBO: An equation with partial derivatives of the fourth order. J. REY PASTOR: The quasi-continuous convergence of successions of functions. G. MARLETTA: Reflections on differential projective geometry. C. TOLOTTI: Einstein's gravitational equations for dynamic universes endowed with complete symmetry about a centre. A. FENICI: Centres of gravitation and centrobaric bodies. R. L. GOMES: A property of de Broglie's operator. H. O. ZANABONI: Determination of critical loads by means of the principle of virtual work. F. ZAGAR: The orbit of a third invisible body in a binary system. The utilisation of measurements of radial velocities to deduce the existence and the orbit of an invisible body revolving round one of the two components of a binary system is considered. Under definite conditions, it is possible to derive, not only the orbital plane of the invisible body, but also all the other elements except the major semi-axis. F. ODONE: Thermodynamic foundations of the theory

of electrical equilibrium and of the permanent currents in metallic conductors. F. PIRRONE: Ali-cyclic compounds (1). Synthesis of  $\beta$ -ketoamines. The products obtained by the interaction of benzaldehyde, ammonia and cyclohexanone indicate that, in this reaction, the equilibrium between the enolic and ketonic forms of cyclohexanone is displaced towards the ketonic form. F. DULZETTO: New observations on the life and relation between the sexes in the young of *Gambusia holbrooki*, Grad. I. DELPINO: Notes on the diffusion of *Trutta genivittata*.

#### SYDNEY

Royal Society of New South Wales, August 7. G. O. K. SAINSBURY: Vegetative reproduction in New Zealand mosses. Twenty species are recorded as having peculiar brood-bodies or gemmae on the leaves. These organisms become detached, and develop into a thread-like growth, and are eventually formed into lateral or terminal growths similar to what are known as bulbils. These structures are capable of developing into separate plants, and thus form populations by this means instead of the usual spore germination methods of reproduction.

### Forthcoming Events

Monday, September 30

ROYAL SOCIETY OF MEDICINE, at 5.—W. Trotter: "General Ideas in Medicine" (Lloyd Roberts Lecture).

### Official Publications Received

#### Great Britain and Ireland

Battersea Polytechnic. Department of Hygiene and Public Health. Calendar for the Session 1935-1936. Pp. 18. 3d. Domestic Science Department and Training College. Calendar for the Session 1935-1936. Pp. 32. 3d. Technical College for Day Students and Day School of Arts and Crafts. Calendar for the Session 1935-1936. Pp. 50. 3d. Evening and Afternoon Courses and Classes. Calendar for the Session 1935-1936. Pp. 30. (London: Battersea Polytechnic.)  
The Institution of Automobile Engineers: Research and Standardization Committee. Fourth Annual Report, July 1st, 1934-June 30th, 1935. Pp. 19. (London: Institution of Automobile Engineers.)

#### Other Countries

The Carlsberg Foundation's Oceanographical Expedition round the World 1928-30 and previous "Dana" Expeditions. Dana-Report No. 7: Quantitative Investigations on the Distribution of Macroplankton in different Oceanic Regions. By P. Jespersen. Pp. 44. (Copenhagen: C. A. Reitzels Forlag; London: Oxford University Press.)  
U.S. Department of Agriculture. Circular No. 356: Trapping Experiments for the Control of the Cigarette Beetle. By W. D. Reed, A. W. Morrill, Jr., and E. M. Livingstone. Pp. 14. (Washington, D.C.: Government Printing Office.) 5 cents.  
Pubblicazioni della R. Università degli Studi di Firenze. Fascicolo N. 53: Osservazioni e Memorie del R. Osservatorio Astrofisico di Arcetri. Pp. iv+64+1 plate. (Firenze: R. Università degli Studi.)  
Conseil Permanent International pour l'Exploration de la Mer. Journal du Conseil, Vol. 10, No. 2. Rédigé par E. S. Russell. Pp. 145-241. (Copenhagen: Andr. Fred. Høst et Fils.)  
Publications of the Dominion Observatory, Ottawa. Vol. 12: Bibliography of Seismology. No. 5; January, February, March, 1935. By Ernest A. Hodgson. Pp. 97-114. (Ottawa: King's Printer.) 25 cents.  
Über die Ursache der Niederschlagsschwankungen in Europa und ihre Beziehungen zu anderen meteorologischen Faktoren. Von Rudolf Höhn. Pp. 64. Die 20 tägige Welle des Winters 1928-29. Von Werner Pflugbeil. Pp. 77. (Leipzig: Geophysikalisches Institut der Universität.)  
Académie des Sciences d'Ukraine: Institut de la Mécanique des Constructions. No. 14: Méthodes approchées de la mécanique non linéaire dans leur application à l'étude de la perturbation des mouvements périodiques et de divers phénomènes de résonance s'y rapportant. Par Prof. Dr. Nicolas Kryloff et Dr. Nicolas Bogoliuboff. Pp. 113. (Kiev: Akadémie des Sciences d'Ukraine.)