

implements found along with the plated articles consist of iron spears, axes, adzes, hammers, ploughshares, billhooks, and sickles, of the types found in settlements elsewhere of the same age, such as Hunsbury, near Northampton, and the Lake Village at Glastonbury. In addition to these there were also fetters and a chain for a chain-gang of six, with six rings to put round the neck. Similar bronze-plated iron articles have been met with elsewhere.—R. L. Taylor: The effect of light on solutions of bleaching powder. Experiments were described in which solutions of bleaching powder, differing in concentration and prepared in different ways, were exposed to diffused daylight and to intermittent bright sunlight, while other similar solutions were kept in the dark. Some of the experiments extended over fifteen months. It was found that solutions exposed to sunlight decomposed quite rapidly, those exposed to diffused daylight much more slowly, while dilute solutions (1 per cent.) kept in the dark remained quite unaltered for the whole period of fifteen months. A solution five times the strength of the latter, however, did undergo some decomposition, losing about 20 per cent. of its available chlorine, even when kept in the dark.

DUBLIN.

Royal Dublin Society, November 27.—Prof. Hugh Ryan in the chair.—Dr. F. E. Hackett and R. J. Feeley: The polarisation of a Leclanché cell. The recovery of a Leclanché cell from polarisation can be analysed into two parts, a rapid recovery and a slow creep towards the initials E.M.F. The period of rapid recovery can be represented closely by an equation similar to the equation for the decay of ionisation in a gas. The recovery of a Weston cadmium cell from short circuit for a brief interval seems also to obey the same law. The disappearance of polarisation is therefore mainly a bimolecular reaction.—Miss E. J. Leonard: The genus *Tænitis*, with some notes on the remaining *Tænitidinae*. The paper is an endeavour to place *Tænitis* in its true phyletic position, and to find out what relationship, if any, it bears to the other genera classed with it, under the heading *Tænitidinae*. *Tænitis* bears a strong external resemblance to *Blechnum*, and this resemblance is further supported by many points in its anatomy, such as glandular dermal appendages, the venation of the leaf, and the presence of a commissural vein underlying the sorus. *Tænitis* is therefore classed as a derivative form in the *Blechnoid* series. Of the remaining genera, the only one which shows definite relationship to *Tænitis* is *Eschatogramme*. The others examined—*Drymoglossum*, *Paltonium*, *Hymenolepis*—are widely divergent, probably in accordance with their epiphytic habit.

BOOKS RECEIVED.

A Supplementary Memoir on British Resources of Sands and Rocks used in Glass Manufacture, with Notes on certain Refractory Materials. By Prof. G. H. Boswell and others. Pp. 92. (London: Longmans and Co.) 3s. net.

Telegraph Practice. By J. Lee. Pp. ix + 102. (London: Longmans and Co.) 2s. 6d. net.

Studies in the History and Method of Science. Edited by C. Singer. Pp. xiv + 304. (Oxford: At the Clarendon Press.) 21s. net.

Meteorological Office. British and Magnetic Year Book, 1915. Part iii., Section 2. (London: Meteorological Office.) 10s. net.

National Physical Laboratory. Notes on Screw Gauges. By the Staff of the Gauge-Testing Department.

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ment. Enlarged issue ii. November. (Teddington: W. F. Parrott.) 2s. 6d.

Cape Peninsula List of Serials. Being a Catalogue of the Publications available for Consultation in the Libraries of the British Medical Association, etc. Second edition. Pp. 65 + iv. (Cape Town: South African Public Library.)

DIARY OF SOCIETIES.

THURSDAY, DECEMBER 20.

INSTITUTION OF MINING AND METALLURGY, at 5.30.—A Neglected Chemical Reaction and an Available Source of Potash: E. A. Ashcroft. —Syphoning Gravel: J. Jervis Garrard.

CHEMICAL SOCIETY, at 8.—Vacuum Balance Cases: B. Blount.—Spark-lengths in Hydrocarbon Gases and Vapours: R. Wright.—Studies of Drying Oils. I. The Properties of some Cerium Salts obtained from Drying Oils: R. S. Morrell.—The Relation of Position Isomerism to Optical Activity. XI. The Menthyl Alkyl Esters of Terephthalic Acid and its Nitro-derivatives: J. B. Cohen and H. S. de Pennington.—Diketohydrindene. III.: A. K. Das and B. N. Ghosh.—Synthesis of Pyranole-derivatives: S. C. Chatterji and B. N. Ghosh.—Synthesis of 3:4-Dihydroxyphenanthrene (Morphol) and of 3:4-Phenanthraquinone: G. Barger.

THURSDAY, DECEMBER 27.

ROYAL INSTITUTION, at 3.—Magnets and the Magnetic Compass: Prof. J. A. Fleming.

SATURDAY, DECEMBER 29.

ROYAL INSTITUTION, at 3.—Electricity and Electric Currents: Prof. J. A. Fleming.

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