

Entomological Society, May 2.—Captain Henry J. Elwes, President, in the chair.—Mr. S. Stevens exhibited a specimen of *Argynnis aglaia* var. *charlotta*, taken by the late Rev. James Watson in the New Forest in 1870.—Mr. J. A. Clark exhibited a curious variety of *Chelonia caja*, having an extraordinary wedge-shaped marking extending from the outer margin to the base of the left hind wing, and also, on the same wing, a small spot, which was brown and white in colour, and had the appearance of having been taken from the fore wing and inserted in the hind wing. The specimen was taken at Abbots Wood, Sussex, in July 1892.—Prof. E. B. Poulton, F.R.S., exhibited living specimens of the larvæ of *Gastropacha quercifolia*, surrounded respectively during the early stages of growth by black twigs and lichen-coloured twigs, the food being the same in both cases. All the larvæ were shown upon a white paper background, but examples of the surrounding twigs which produced the change of colour were shown beside each batch. Mr. Merrifield made some remarks on the subject.—Mr. E. Meyrick communicated a paper entitled "On *Pyralidina* from the Malay Archipelago."—Mr. C. J. Gahan read a paper entitled "A Supplemental List of the Longicorn Coleoptera obtained by Mr. J. J. Walker, R.N., during the voyage of H.M.S. *Penguin*."

PARIS.

Academy of Sciences, May 7.—On the spectra of oxygen at high temperatures, by M. J. Janssen.—Researches on the isomeric propylenes and their compounds with sulphuric acid, by M. Berthelot.—Trimethylene is rapidly absorbed by pure sulphuric acid forming the normal ethereal salt $(C_3H_7)_2 SO_4$. On addition of water it separates as a heavy oil which is only very slowly acted on by water and is decomposed by potash slowly in sealed tubes at 100°. Ordinary propylene combines with sulphuric acid in the same way to yield a much less stable derivative.—On *Flabellum anthophyllum* from the Gulf of Lyons, by M. de Lacaze-Duthiers.—Articular movements studied by means of photography, by M. Marey. Photographs are taken in successive positions of a bright wire attached to the moving part. The results of a study of human jaw movements are given.—Report of M. Darboux on a memoir on the triangle of sequences (presented by M. Désiré André).—Azimuth, latitude, and longitude, by equal heights without the aid of the chronometer, by M. E. Caspari. The method described is held to have many good characteristics, among which the fact of the same precision being obtained for all latitudes and all zenithal distances is noted.—Experiments on the contraction of liquid jets and on the distribution of velocities internally: abstract of a memoir by M. Bazin.—Mathematical theory of the Watt indicator: abstract of a memoir by M. L. Lecornu.—Observations of the comet Gale, made at Algiers Observatory, by MM. Rambaud and Sy. M. Tisserand gave details concerning a photograph of this comet obtained on May 5, at Paris. The photograph shows the comet with a tail 4° in length.—Emission of sounds, by M. Henri Gilbault.—Equality of the speeds of propagation of very short electric waves in free space and in long wire conductors, by M. M. Dufour. The author experimentally demonstrates the extension of MM. Sarasin and de la Rive's conclusions on the subject to the case of a wave-length of 8.5 cm.—Absorption spectra of cupric bromide, by M. Paul Sabatier. The spectral absorption of aqueous solutions varies with the concentration; alcoholic solutions give the same absorption spectrum as concentrated aqueous solutions, probably the salt here exists in the anhydrous condition.—On the variations of viscosity shown by melted sulphur, by MM. J. Brunhes and J. Dussy.—On the blue lakes obtained from dibromogallanilide and on some reactions yielding blue products of polyphenols, by M. P. Cazeneuve.—On a new carbon chloride, the dichloride of hexachlorobenzene, by M. Et. Barral. The properties are described of the substance C_6Cl_8 obtained from hexachlorophenol by action of PCl_5 .—On the aldehyde from essence of lemon grass, by MM. Ph. Barbier and L. Bouveault.—On the industrial manufacture of products rich in nicotine, by M. Th. Schlessing.—On the oxidation of beer worts, by M. P. Petit.—Researches on the chemical transformations of the fundamental substance of cartilage during normal ossification, by M. C. Chabré.—On some points in the anatomy of *Cryptoproctus* from Madagascar, by M. H. Filhol.—The perfume glands of Viverridæ, by M. H. Beaugard.—The sexual reproduction of Ascomycetes, by M. P. A. Dangard.—The lacustrine basin

of Constantize and oligocene formations in Algeria, by M. E. Ficheur.—Examination of milks by pressure, by MM. R. Lezé and E. Hilsont.—On the *clamation*, by M. Calmette, concerning the antitoxic blood of animals protected against the poison of serpents, by MM. C. Phisalix and G. Bertrand.

BOOKS, PAMPHLETS, and SERIALS RECEIVED.

BOOKS.—Notes on the Ventilation and Warming of Houses, &c.: Prof. E. H. Jacob (S.P.C.K.).—Simple Experiments for Science Teaching: J. A. Bower (S.P.C.K.).—Practical Botany for Beginners: Prof. F. O. Bower (Macmillan).—Alternating Generations; a Biological Study of Oak Galls and Gall Flies: Dr. H. Adler, translated and edited by C. R. Stratton (Oxford, Clarendon Press).—Lux Naturæ: D. Sinclair (E. Stock).—Monograph of the Stalactites and Stalagmites of the Claves Cove, near Dalry, Ayrshire: J. Smith (E. Stock).—Fallen Angels: One of them (Gay and Bird).—The Steam-Engine and other Heat-Engines: Prof. J. A. Ewing (Cambridge, University Press).—Creatures of other Days: Rev. H. N. Hutchinson (Chapman and Hall).—Theorie des Fernrohrs auf Grund der Beugung des Lichts: K. Strehl; 1 Theil (Leipzig, Barth).

PAMPHLETS.—Tertiary Tipulidæ: S. H. Scudder.—Zweiter Jahresbericht des Sonnblick-Vereines für das Jahr 1893 (Wien).—Lost British Birds: W. H. Hudson (Society for the Protection of Birds).—Tracks for the Times (London).

SERIALS.—American Journal of Science, May (New Haven).—Bulletins de la Société d'Anthropologie, January (Paris).—Mémoires de la Société d'Anthropologie de Paris, tome 1 (3^e series), 3^e fasc. (Paris).—American Meteorological Journal, May (Ginn).—Engineering Magazine, May (New York).—Proceedings of the Chester Society of Natural Science and Literature, No. 4 (Chester).—Memoirs and Proceedings of the Manchester Literary and Philosophical Society, Vol. 8, No. 2 (Manchester).—Psychological Review, Vol. 1, No. 3 (Macmillan).—Astronomy and Astro-Physics, May (Wesley).—Actes de la Société Scientifique du Chili, tome 3, 3^e Liv^{re} (Santiago).

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