

tion to the knowledge of the tectonics of the Asturias : anomalies at the contact of the Coal Measures and the Arnao Devonian.—P. A. Dangeard : The nature of the chondriome and its rôle in the cell. Current views on the nature and function of the chondriome are questioned, and new facts based on a method of staining with cresyl-blue are given. This stain can be applied in such a manner that there is no interference with the life of the cell. It is shown that, contrary to the generally accepted view, the chondriome of the cell is altogether independent of the plastidome.—E. Ariès : A formula giving the saturated vapour pressure of a diatomic liquid. An extension of the method described in previous communications for monatomic liquids. Chlorine and carbon monoxide are worked out as examples.—M. G. Koenigs was elected a member of the section of mechanics in succession to the late M. H. Léauté.—M. T. Beritch : The convergence and divergence of series with real positive terms.—A. Buhl : The intervention of the geometry of masses in certain theorems concerning algebraic surfaces.—L. Schlusiel : The measurement of rapid and irregularly variable dynamical actions.—B. de Fontviolant : New theory relating to the effects of the wind on bridges.—D. Eydoux : The movements of water in equilibrium pipes.—A. B. P. Leme : A new method of quantitative analysis. Suggestion for a new arrangement of spectrograph for quantitative work.—A. Mailhe and F. de Godon : A new method of preparation of monomethylaniline and dimethylaniline by catalysis. A mixture of the vapours of methyl alcohol and aniline is passed over alumina at a temperature between 400° and 430° C., when a mixture of monomethylaniline and dimethylaniline is obtained, containing only traces of aniline. By a repetition of the process with addition of methyl alcohol, dimethylaniline is obtained. The new method has the following advantages over the process in current use : the aniline may contain water and the methyl alcohol need not be specially purified from acetone; also, the use of autoclaves and high pressures is unnecessary.—E. Léger : The action of hydriodic acid upon cinchonine and on its isomers, cinchonigine, cinchoniline, and apocinchonine.—L. Gentil, M. Lugeon, and L. Joleaud : The existence of a Triassic sheet in the Sebou basin, Morocco.

BOOKS RECEIVED.

- Medical Electricity. By Dr. L. Jones. Seventh edition, revised and edited by Dr. L. W. Bathurst. Pp. xv+588. (London: H. K. Lewis and Co., Ltd.) 15s. net.
- The Nature of Solution. By H. C. Jones. With a Biographical Sketch by Prof. J. E. Reid, and Tributes by Profs. Arrhenius, Ostwald, and Woodward. Pp. xxiii+380. (London: Constable and Co., Ltd.) Price 12s. 6d. net.
- The Megalithic Culture of Indonesia. By W. J. Perry. Pp. xiii+198. (Manchester: At the University Press; London: Longmans, Green, and Co.) Price 12s. 6d. net.
- Aeronautics in Theory and Experiment. By W. L. Cowley and H. Levy. Pp. xi+284. (London: E. Arnold.) Price 16s. net.
- Essays in Scientific Synthesis. By Eugenio Rignano. Pp. 254. (London: G. Allen and Unwin, Ltd.) Price 7s. 6d. net.
- Lecithin and Allied Substances: The Lipins. By Dr. H. Maclean. Pp. vii+206. (London: Longmans, Green, and Co.) Price 7s. 6d. net.
- Thirty-first Annual Report of the Bureau of American Ethnology to the Secretary of the Smithsonian Institution, 1909-10. Pp. 1037. (Washington: Government Printing Office.)

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DIARY OF SOCIETIES.

- MONDAY, APRIL 8.
ROYAL GEOGRAPHICAL SOCIETY, at 8.30.—The Future of the Albanian State : Capt. J. S. Barnes, R.F.C. (leave permitting).
ARISTOTELIAN SOCIETY, at 8.—Value and Existence : Dr. F. C. S. Schiller
- TUESDAY, APRIL 9.
ROYAL INSTITUTION, at 3.—Scientific Signalling and Safety at Sea : Prof. J. Joly.
INSTITUTION OF CIVIL ENGINEERS, at 5.30.—The Derwent Valley Water works : E. Sandeman.
ZOOLOGICAL SOCIETY, at 5.30.—Head of the Charasinid Fish, *Hydrocyon goliath* : Dr. G. A. Boulenger.—The Variation of the Pit-Viper, *Lachesis atrox* : Miss J. B. Procter.
RÖNTGEN SOCIETY, at 8.—The Silvanus Thompson Memorial Lecture : Sir Ernest Rutherford
- WEDNESDAY, APRIL 10.
ROYAL INSTITUTION, at 3.—Scientific Signalling and Safety at Sea : Prof. J. Joly.
BRITISH ASSOCIATION GEOPHYSICAL COMMITTEE (Royal Astronomical Society), at 5.—Earthquake Waves : Prof. H. H. Turner and Dr. G. W. Walker.—Earthquake Frequency : R. D. Oldham.
- THURSDAY, APRIL 11.
ROYAL INSTITUTION, at 3.—Experimental Psychology : Lt.-Col. C. S. Myers.
INSTITUTION OF ELECTRICAL ENGINEERS (Cancer Hospital, Fulham Road), at 6.—Joint Meeting with the Electrical Section of the Royal Society of Medicine.—Papers on Medical Electricity.
INSTITUTION OF MINING AND METALLURGY, at 5.30.—Presidential Address : Hugh F. Marriott.
OPTICAL SOCIETY (Imperial College of Science and Technology, South Kensington), at 8.—The Balsam Problem : J. W. French.
- FRIDAY, APRIL 12.
ROYAL INSTITUTION, at 5.30.—Absorption and Phosphorescence : Prof. E. C. C. Baly.
ROYAL ASTRONOMICAL SOCIETY, at 5.
- SATURDAY, APRIL 13.
ROYAL INSTITUTION, at 3.—Musical Instruments Scientifically Considered : Prof. E. H. Barton.

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