

and the base of "C." The throw of the fault was estimated to be at least 780 ft. Two other faults are pointed out. One, in the middle of the exposure, causes a repetition of "Z" beds, and has a down-throw of 330 ft. to the south. The other, to the north of this, throws in the opposite direction, and is probably slight. Three new species of corals are described of the genera *Michelinia*, *Zaphrentis*, and *Endophyllum*.—J. J. Dowling: An apparatus for the production of high electrostatic potentials. The apparatus is an influence machine which transforms a battery voltage of, say, four hundred to, say, five hundred volts. The ratio of transformation can be adjusted, and the high potentials are remarkably steady. An earthed disc is carried to and fro, being fixed to the end of a rod which is given a reciprocating motion by an eccentric device. A contact-maker is mounted on the eccentric shaft, and this alternately connects a fixed insulated disc, mounted opposite the earthed disc, alternately to the battery and to the apparatus which is to be maintained at the high potential. One pole of the battery is, of course, earthed.

BOOKS RECEIVED.

A Short History of Education. By Prof. J. W. Adamson. Pp. xi+371. (Cambridge: At the University Press.) 12s. 6d. net.

Malleable Cast-Iron. By S. J. Parsons. Second edition. Pp. xi+175. (London: Constable and Co., Ltd.) 14s. net.

Les Grottes de Grimaldi (Baoussé-Roussé). By Prof. M. Boule. Tome i., Fasc. iv.: Géologie et Paléontologie (Fin). Pp. 237-362+plates. (Monaco.)

An Introduction to Social Psychology. By Dr. W. McDougall. New edition. Pp. xxiv+459. (London: Methuen and Co., Ltd.) 7s. 6d. net.

Nationality and Race: From an Anthropologist's Point of View. By Prof. A. Keith. Pp. 39. (London: Oxford University Press.) 2s. net.

Mesures Pratiques en Radioactivité. By Drs. W. Makower and H. Geiger. Traduit de l'Anglais par E. Philippi. Pp. vii+181. (Paris: Gauthier-Villars et Cie.) 8 francs.

Aircraft in Peace and the Law. By Dr. J. M. Spaight. Pp. viii+233. (London: Macmillan and Co., Ltd.) 8s. 6d. net.

An Introduction to Anthropology. By Rev. E. O. James. Pp. ix+259. (London: Macmillan and Co., Ltd.) 7s. 6d. net.

Psychology of the Normal and Subnormal. By Dr. H. H. Goddard. Pp. xxiv+349. (London: Kegan Paul and Co., Ltd.) 25s. net.

Lectures on Industrial Psychology. By B. Muscio. New edition. Pp. iv+300. (London: G. Routledge and Sons, Ltd.) 6s. 6d. net.

Fuel, Water, and Gas Analysis for Steam Users. By J. B. C. Kershaw. New edition. Pp. xii+201. (London: Constable and Co., Ltd.) 12s. 6d. net.

The Aviation Pocket-Book for 1919-20. By R. B. Matthews. Pp. xxiv+536. (London: Crosby Lockwood and Son.) 12s. 6d. net.

Outlines of the History of Botany. By Prof. R. J. Harvey-Gibson. Pp. x+274. (London: A. and C. Black, Ltd.) 10s. net.

The Preparation of Organic Compounds. By E. De Barry Barnett. New edition. Pp. xv+273. (London: J. and A. Churchill.) 10s. 6d. net.

A Treatise on Qualitative Analysis. By Prof. F.

NO. 2617, VOL. 104]

Clowes and J. B. Coleman. New edition. Pp. xvi+400. (London: J. and A. Churchill.) 12s. 6d.

Elementary Practical Chemistry. By Prof. F. Clowes and J. B. Coleman. New edition. Part i.: General Chemistry. Pp. xvi+241. (London: J. and A. Churchill.) 6s.

Modern Spiritism: Its Science and Religion. By Dr. A. T. Schofield. Pp. ix+259. (London: J. and A. Churchill.) 3s. 6d. net.

Die Stämme der Wirbeltiere. By Prof. O. Abel. Pp. xviii+914. (Berlin and Leipzig: W. de Gruyter and Co.) 56 marks.

DIARY OF SOCIETIES.

MONDAY, DECEMBER 29.

ROYAL GEOGRAPHICAL SOCIETY (at Æolian Hall), at 3.30.—Mrs. Dickinson Berry: Serbia and Yugo-Slavia, Before the War and After (Christmas Lecture to Young People).

TUESDAY, DECEMBER 30.

ROYAL INSTITUTION OF GREAT BRITAIN, at 3.—Prof. W. H. Bragg: The World of Sound, I., What is Sound? (Christmas Lectures).

THURSDAY, JANUARY 1.

ROYAL INSTITUTION OF GREAT BRITAIN, at 3.—Prof. W. H. Bragg: The World of Sound, II., Sound and Music (Christmas Lectures).

FRIDAY, JANUARY 2.

ROYAL GEOGRAPHICAL SOCIETY (at Æolian Hall), at 3.30.—Miss Hilda Bowser: A Visit to the Diamond Mountain in Korea (Christmas Lecture to Young People).

ROYAL SOCIETY OF ARTS (Indian Section), at 4.30.—A. P. Morris: Burmese Village Industries: Their Present State and Possible Development.

SATURDAY, JANUARY 3.

ROYAL INSTITUTION OF GREAT BRITAIN, at 3.—Prof. W. H. Bragg: The World of Sound, III., Sounds of the Country (Christmas Lectures).

CONTENTS.

	PAGE
The Profession of Chemistry	409
Flowering Plants and Ferns	410
Our Bookshelf	411
Letters to the Editor:—	
Polarisation of Light Scattered by Helium Atoms.—	
Right Hon. Lord Rayleigh, F.R.S.	412
Gravitation and Light.—Sir Joseph Larmor, M.P.,	
F.R.S.	412
Radio-activity and Gravitation.—Sir E. Rutherford,	
F.R.S., and Dr. A. H. Compton	412
Mortality among Snails and the Appearance of Blue-	
bottle Flies.—Dr. N. Annandale	412
Remains of a Fossil Lion in Ipswich.—Nina F.	
Layard	413
Promotion of a Plumage Bill.—H. J. Massingham.	413
The Deflection of Light during a Solar Eclipse.—	
Capt. C. J. P. Cave	413
Industrial Resources of India	413
The Reform of the Calendar. By H. C. P.	415
Notes	416
Our Astronomical Column:—	
Barnard's Proper-Motion Star	420
The Great Solar Prominence of Last May	420
Atomic Disintegration and Heat Energy	420
The British Association at Bournemouth:—	
Section M—Agriculture—Opening Address (Abridged)	
by Prof. W. Somerville, D.Sc., President of	
the Section	421
University and Educational Intelligence	425
Societies and Academies	426
Books Received	428
Diary of Societies	428

Editorial and Publishing Offices:

MACMILLAN AND CO., LTD.,

ST. MARTIN'S STREET, LONDON, W.C.2.

Advertisements and business letters to be addressed to the Publishers.

Editorial Communications to the Editor.

Telegraphic Address: PHUSIS, LONDON.

Telephone Number: GERRARD 8830.