

Relativity and the Electron Theory. By E. Cunningham. Pp. vii+96. (London: Longmans and Co.) 4s. net.

The Telephone and Telephone Exchanges, their Invention and Development. By J. E. Kingsbury. Pp. x+558. (London: Longmans and Co.) 12s. 6d. net.

The Positive Sciences of the Ancient Hindus. By Dr. B. Seal. Pp. viii+295. (London: Longmans and Co.) 12s. 6d. net.

Morphology and Anthropology. By Dr. W. L. H. Duckworth. Second edition. Vol. i. Pp. xiv+304. (Cambridge: At the University Press.) 10s. 6d. net.

New South Wales. Department of Mines. Geological Survey. Mineral Resources. No. 18: The Canbelego, Budgerly, and Budgerlygar Mines, part ii. of the Cobarr Copper and Gold-Field. By E. C. Andrews. Pp. vii+121. (Sydney: W. A. Gullick.)

The Annual of the British School at Athens. No. xx. Session 1913-1914. Pp. iv+182. (London: Macmillan and Co., Ltd.) 21s. net.

Historical Introduction to Chemistry. By Prof. T. M. Lowry. Pp. xv+584. (London: Macmillan and Co., Ltd.) 8s. 6d. net.

Memoirs of the Geological Survey. England and Wales. The Geology of the Country between Whitby and Scarborough. By C. Fox-Strangways and G. Burrow. Second edition. Pp. iv+144. (London: H.M.S.O.; E. Stanford, Ltd.) 2s. 6d.

Diesel Engines for Land and Marine Work. By A. P. Chalkley. Fourth edition. Pp. xvii+368. (London: Constable and Co., Ltd.) 8s. 6d. net.

Apparitions and Thought-Transference. By F. Podmore. New edition. Pp. xviii+467. (London: Walter Scott Publishing Company, Ltd.) 6s.

A Text Book of Elementary Chemistry. By Prof. A. Smith. Pp. x+457. (London: G. Bell and Sons, Ltd.) 5s. net.

A Laboratory Outline of Elementary Chemistry. By Prof. A. Smith. Pp. 152. (London: G. Bell and Sons, Ltd.) 2s. net.

The Metallurgy of Gold. By Sir T. K. Rose. Sixth edition. Pp. xix+601. (London: C. Griffin and Co., Ltd.) 22s. 6d. net.

The Structure of the Fowl. By Dr. O. C. Bradley. Pp. xi+153. (London: A. and C. Black, Ltd.) 3s. 6d. net.

Board of Agriculture and Fisheries. Report of the Agricultural Education Conference: Agricultural Education for Women. Pp. 84. (London: H.M.S.O.; Wyman and Sons, Ltd.) 1s. 3d.

Vigour and Heredity. By J. L. Bonhote. Pp. xi+263. (London: West, Newman and Co.) 10s. 6d. net.

Egypt of the Egyptians. By W. L. Balls. Pp. xvi+266. (London: Sir I. Pitman and Sons, Ltd.) 6s. net.

The "Wellcome" Photographic Exposure Record and Diary, 1916. Pp. 256. (London: Burroughs Wellcome and Co.) 1s.

SOCIETY OF CHEMICAL INDUSTRY, at 8.—The Use of Graphical Methods in the Solution of Problems in Technical Chemistry: Prof. F. G. Donnan.—The Transport of Material in the Form of Dust: T. C. Cloud.—Sampling and Analysis of Beeswax: M. S. Salamon.

WEDNESDAY, DECEMBER 8.

FARADAY SOCIETY, at 8.—Discussion on "The Corrosion of Metals—Ferrous and Non-ferrous."

ROYAL SOCIETY OF ARTS, at 4.30.—The Art of Finding your Way at Night without a Compass: Lieut.-Col. W. A. Tilney.

THURSDAY, DECEMBER 9.

ROYAL SOCIETY, at 4.30.—Croonian Lecture: The Respiratory Process in Muscle; and the Nature of Muscular Motion: Dr. W. M. Fletcher and Prof. F. G. Hopkins.

MATHEMATICAL SOCIETY, at 5.30.—The Vibrations of a Special Type of Dissipative System: H. Jeffreys.—Diffraction by a Wedge: F. J. W. Whipple.—Some Applications of the Two-three Birational Space Transformation: T. L. Wren.

OPTICAL SOCIETY, at 8.—Improvements in Prismatic Compasses, with Special Reference to the Creagh-Osborne Patent Compass: A. Hughes.

FRIDAY, DECEMBER 10.

ROYAL ASTRONOMICAL SOCIETY, at 5.
MALACOLOGICAL SOCIETY, at 7.—Note on the Oligocene of Tampa, Florida, the Panama Canal Zone, and the Antillean Region: Dr. W. H. Dall.—Description of Two New Species of Angasella: G. K. Gude.

CONTENTS.

PAGE

Work and Worth	363
Recent Developments in Chemical Technology.	
By T.	365
Alligators. By G. A. B.	367
Plane Surveying. By H. G. L.	367
Our Bookshelf	368
Letters to the Editor:—	
A Question of Albedo.—J. Evershed, F.R.S.	369
Duty-Free Alcohol.—Spencer Pickering, F.R.S.	370
Standards and Functions of Museums.—Dr. F. A. Lucas; W. P. P.	370
Multiple-Character Evolution.—Dr. H. Gadov, F.R.S.	370
Egypt and the Far East. By L. W. K.	370
Industrial Scientific Research	371
The Supply of Nitrates	372
Prof. Theodor Boveri	372
Adolphe Greiner	373
Anniversary Meeting of the Royal Society	373
Notes	375
Our Astronomical Column:—	
Comet 1915d (Mellish)	379
Occultations by the Moon	379
The Perseid Meteors in 1915	379
Radial Velocities and Distances of the Stars	380
A New Astronomical Publication	380
Lancashire Sea-Fishery Investigations	380
The Action of Gases on Iron and Steel	380
Science and Civilisation. By Dr. W. W. Campbell	381
University and Educational Intelligence	386
Societies and Academies	387
Books Received	389
Diary of Societies	390

DIARY OF SOCIETIES.

THURSDAY, DECEMBER 2.

ROYAL SOCIETY, at 4.30.—Note on the Existence of Converging Sequences in certain Oscillating Successions of Functions: W. H. Young.—The Emulsifying Action of Soap; a Contribution to the Theory of Detergent Action: S. A. Shorter and S. Ellingworth.—The Newtonian Constant of Gravitation as affected by Temperature: P. E. Shaw.—Skin Friction of the Wind on the Earth's Surface: G. I. Taylor.

FRIDAY, DECEMBER 3.

GEOLGISTS' ASSOCIATION, at 7.30.—Some Features of the Antarctic Ice: J. D. Falconer.

MONDAY, DECEMBER 6.

ROYAL SOCIETY OF ARTS, at 4.30.—Optical Glass: Dr. W. Rosenhain. SOCIETY OF ENGINEERS, at 7.30.—The Modern Development of Water Power: A. Steiger.

Editorial and Publishing Offices:

MACMILLAN & CO., LTD.,
ST. MARTIN'S STREET, LONDON, W.C.

Advertisements and business letters to be addressed to the Publishers

Editorial Communications to the Editor.

Telegraphic Address: PHUSIS, LONDON.

Telephone Number: GERRARD 8830.