

## Official Publications Received.

Department of Scientific and Industrial Research. Second Report of the Gas Cylinders Research Committee (Periodical Heat Treatment). Pp. iv+29+13 plates. (London: H.M. Stationery Office.) 2s. 6d. net.

The National Physical Laboratory. Watch and Chronometer Trials, 1925. Pp. 5. (London: H.M. Stationery Office.) 6d. net.

Ceylon Administration Reports for 1925. Part 4: Education, Science and Art (F). Administration Report of the Government Marine Biologist for 1925. By Dr. Joseph Pearson. Pp. Fl6. (Colombo: Government Record Office.) 35 cents.

Ceylon. Sessional Paper 15, 1926: Reports on the Pearl Fishery of 1925. By Dr. Joseph Pearson. Pp. 80+11 plates. (Colombo: Government Record Office.) 2.25 rupees.

Proceedings of the Imperial Academy. Vol. 2, No. 5, May. Pp. xiii-xviii+193-240. (Ueno Park, Tokyo.)

Proceedings of the United States National Museum. Vol. 69, Art. 3: Miscellaneous new Chalcid-Flies of the Hymenopterous Family Encyrtidae. By P. H. Timberlake. (No. 2629.) Pp. 34+2 plates. (Washington, D.C.: Government Printing Office.)

Methods and Problems of Medical Education. (Fourth Series.) Pp. ix+32+48. (New York City: The Rockefeller Foundation.)

Bulletin of the American Museum of Natural History. Vol. 56, Art. 3: The Skeleton of *Moschops capensis* Broom, a Dinosaurian Reptile from the Permian of South Africa. By William K. Gregory. Pp. 179-251+21 plates. (New York City.)

Journal of the Faculty of Science, Imperial University of Tokyo, Section 1: Mathematics, Astronomy, Physics, Chemistry. Vol. 1, Part 1: Theory of Generating Functions and its Application to the Theory of Probability. By Toyojiro Kameda. Pp. 62. 1.40 yen. Vol. 1, Part 2: Studies on Binary Mixtures. By Jitsusaburo Sameshima. Pp. 68-103. 1.10 yen. Vol. 1, Part 3: Über die Maximalordnung einiger Funktionen in der Idealtheorie. Von Zyoiti Suetuna. Pp. 105-153. 1.05 yen. Vol. 1, Part 4: Thermochemical Studies. By Hajime Hiroba. Pp. 155-222. 1.30 yen. Section 2: Geology, Mineralogy, Geography, Seismology. Vol. 1, Part 1: Tertiary Mollusca from Shinano and Echigo. By Matajiro Yokoyama. Pp. 23+7 plates. 1.60 yen. Vol. 1, Part 2: Podsol in South Saghalien, by Prof. Tetsugoro Wakimizu; Physiographical Studies of the Southeastern Part of Bōsō Peninsula, by Prof. Naomasa Yamasaki; Brief Notes on Fergusonite and Allanite from Iyo, Shikoku, by Prof. Denzō Satō; Variation of Specific Gravity of Japanese Crude Oils, with Special Reference to their Geological Occurrence, by Prof. Tsunenaka Iki; The Cupriferosus Pyritic Ore Deposits of the Shibuki and Seki Mines in the Province of Bungo, Japan, by Prof. Takeo Kato; The Genetical Interpretation of Extrusive Rocks, by Seitarō Tsuboi; A Tertiary Forerunner of Effusive Rocks in the Northeastern Japan, by Kōroku Tsuboya; The Post-Paleozoic and Late-Mesozoic Earth-Movements in the Inner Zone of Japan, by Yoshiaki Ozawa; Zonal Growth of Plagioclase and Sodaorthoclase in Syenitic Magma, by Tei-ichi Itō. Pp. 25-109+plates 8-13. 2.00 yen. Vol. 1, Part 3: Mollusca from the Tertiary Basin of Chichibu. By Matajiro Yokoyama. Pp. 111-126+plates 14-15. 0.80 yen. Vol. 1, Part 4: Tertiary Mollusca from Shiobara in Shimotsuké. By Matajiro Yokoyama. Pp. 127-138+plates 16-20. 1.10 yen. Vol. 1, Part 5: A Dispersion Method of Discriminating Rock-Constituents and its Use in Petrogenetic Investigation. By Seitarō Tsuboi. Pp. 139-180. 1.00 yen. Vol. 1, Part 6: The Cretaceous Formation of Futaba in Iwaki and its Fossils. By Shigeyasu Tokunaga and Saburo Shimizu. Pp. 181-212+plates 21-27. 1.70 yen. Vol. 1, Part 7: Molluscan Fossils from the Tertiary of Mino, by Matajiro Yokoyama; Neogene Shells from Kōzūké and other Provinces, by Matajiro Yokoyama; Tertiary Mollusca from the Oil-Fields of Embets and Etabels, by Matajiro Yokoyama. Pp. 213-248+plates 28-32. 1.50 yen. Section 3: Botany. Vol. 1, Part 1: Über die Reifungsvorgänge des Parhitis-Samens mit besonderer Rücksicht auf die Keimungsfähigkeit des unreifen Samens. Von Yoshiji Yoshii. Pp. 139+1 Tafel. 2.65 yen. Section 4: Zoology. Vol. 1, Part 1: Studies on some Nematode Parasites of Frogs and Toads in Japan, with Notes on their Distribution and Frequency, by Kaoru Morishita: On Two new Genera of Frog Trematodes, *Cryptotrema* and *Microclethrus*, and a new Species of *Pleurogenes*, by Yoshiyama Ozaki; The Anatomy and Development of a Rhizostome Medusa, *Mastigias pappia* L. Agassiz, with Observations on the Phylogeny of Rhizostomae, by Tohru Uchida; Three new Species of Amphistomatata from Mammals, by Tamao Fukui. Pp. 113+6 plates. 2.90 yen. Section 5: Anthropology. Vol. 1, Part 1: On the Cephalic Index and Stature of the Japanese and their Local Differences; a Contribution to the Physical Anthropology of Japan. By Akira Matsumura. Pp. 312+10 plates. 11.00 yen. (Tokyo: Maruzen Co., Ltd.)

New South Wales. Department of Mines: Geological Survey. Mineral Resources No. 34: A Contribution to the Mineralogy of New South Wales. By George Smith. Pp. 145+32 plates. (Sydney, N.S.W.: Alfred James Kent.) 3s. 3d.

Report of His Majesty's Astronomer at the Cape of Good Hope to the Secretary of the Admiralty, for the Year 1925. Pp. 10. (Cape Town.)

South Australia: Department of Mines. Mining Review for the Half-year ended December 31st, 1925. (No. 43.) Pp. 82+8 plates. (Adelaide: R. E. E. Rogers.)

The Cordwainers Technical College (Incorporated), Eagle Court, St. John's Lane, E.C.1. Prospectus of Classes in Boot and Shoe Manufacture and Making, and Leather Goods Manufacture: Day and Evening Classes, Session 1926-7. Pp. 42. (London.)

Journal of the Royal Statistical Society. New Series, Vol. 89, Part 3, May. Pp. viii+406-684. (London: Royal Statistical Society.) 7s. 6d.

Canada. Department of Mines: Mines Branch. Final Report of the Peat Committee appointed jointly by the Governments of the Dominion of Canada and the Province of Ontario: Peat, its Manufacture and Uses. By B. F. Haanel. (Mines Branch No. 641.) Pp. xviii+298+58 plates. (Ottawa: F. A. Acland.)

Agricultural Experiment Station: Michigan State College of Agriculture and Applied Science, Horticultural Section, Technical Bulletin No. 75: Influence of Nutrient Supply on Earliness of Maturity in Cabbage. By J. B. Edmond and E. P. Lewis. Pp. 16. (East Lansing, Mich.)

Proceedings of the American Academy of Arts and Sciences. Vol. 61, No. 5: Measurement of the Compressibility of the Alkali Halides. By J. C. Slater. Pp. 135-150. 50 cents. Vol. 61, No. 6: Contributions to Mineralogy from the Department of Mineralogy and Petrography, Harvard University. 12: Catalogue of the Collection of Meteorites in the Mineralogical Museum of Harvard University. By Charles Palache. Pp. 151-159. 25 cents. Vol. 61, No. 7: A Mathematical Study of Crystal Symmetry. By Austin F. Rogers. Pp. 161-203. 75 cents. (Boston, Mass.)

U.S. Department of Agriculture. Farmers' Bulletin No. 1484: The Clover Leaf-Weevil and its Control. By W. H. Larrimer. Pp. ii+6. (Washington, D.C.: Government Printing Office.) 5 cents.

Uganda Protectorate. Annual Report of the Geological Survey Department for the Year ended 31st December 1925. Pp. 80. (Entebbe.)

Loughborough College, Leicestershire. Calendar, Session 1926-27. Pp. xiv+228+67 plates. (Loughborough.) 2s. 6d. net.

## Diary of Societies.

SATURDAY, AUGUST 14.

MINING INSTITUTE OF SCOTLAND (at Glasgow).

WEDNESDAY, AUGUST 18.

CORRELATION OF SCIENCE SOCIETY (at Royal Botanic Society of London), at 3.—Conference on Partial Impact and Whirling Coalescence.

SATURDAY, AUGUST 21.

NORTH OF ENGLAND INSTITUTE OF MINING AND MECHANICAL ENGINEERS (Annual Meeting) at Newcastle-upon-Tyne, at 2.30.

## CONGRESSES.

AUGUST 27 AND 28.

IRON AND STEEL INSTITUTE (Autumn Meeting) (at Stockholm).—F. Adcock: The Effect of Nitrogen on Chromium and some Iron Chromium Alloys (Alloys of Iron Research, Part IV.).—J. H. Andrew and I. A. Dickie: A Physical Investigation into the Cause of Temper Brittleness.—Prof. C. Benedicks, H. Bäckström, and P. Sederholm: Anomalies in Heat Conduction, with some Determinations of Thermal Conductivity in Iron and Carbon Steels.—Prof. C. Benedicks and R. Sundberg: Electrochemical Potentials of Carbon and Chromium Steels.—G. F. Constock: The Treatment of Steel with Ferro Carbon-Titanium.—G. A. Hankins, D. Hanson, and Miss G. W. Ford: The Mechanical Properties of Four Heat-Treated Spring Steels.—Prof. K. Honda: Is the Direct Change from Austenite to Troostite Possible?—A. Johansson and R. Von Seth: The Carburisation and Decarburisation of Iron and Some Investigations on the Surface Decarburisation of Steel.—A. Johansson and A. Wahlberg: The Development of the Swedish Iron and Steel Industry during the last thirty years.—E. Kinander: Notes on Jernkontoret.—A. Lundgren: The Testing of Hardened Steel.—W. Petersson: Notes on the Development of the Swedish Mining Industry during the last twenty-five years.—G. Phragmen: The Constitution of the Iron-Silicon Alloys.

AUGUST 29 TO SEPTEMBER 1.

SOCIÉTÉ HELVÉTIQUE DES SCIENCES NATURELLES (at Fribourg).—In Sections devoted to Mathematics, Physics, Geophysics, Meteorology and Astronomy, Chemistry, Geology, Mineralogy and Petrography, General Botany, Special Botany and Geographical Botany, Zoology, Entomology, Anthropology and Ethnology, Palaeontology, Medical Biology, History of Medicine and Natural Science.

AUGUST 31 TO SEPTEMBER 8.

WORLD POWER CONFERENCE (at Basle), Technical Programme of Sectional Meeting:

Utilisation of Water Power, and Inland Navigation.

Exchange of Electrical Energy between Countries.

The Economic Relation between Electrical Energy Produced

Hydraulically and Electrical Energy Produced Thermally: Conditions

under which the two systems can work together with advantage.

Electricity in Agriculture.

Railway Electrification.

SEPTEMBER 1 TO 4.

INSTITUTE OF METALS (Autumn Meeting) (at Liège) (September 1, at 8

—Dr. W. Rosenhain: Ancient Industries and Modern Metallurgy) (Autumn Lecture).—Dr. C. J. Smithells, H. P. Rooksby, and W. R. Pitkin: The Deformation of Tungsten Crystals.—Prof. K. Honda: A

Comparison of Static and Dynamic Tensile and Notched-Bar Tests.—

C. H. M. Jenkins: The Constitution and the Physical Properties of

the Alloys of Cadmium and Zinc.—H. J. Gough, S. J. Wright, and Dr.

D. Hanson: Some Further Experiments on the Behaviour of Single

Crystals of Aluminium under Reversed Torsional Stresses.—B. Ótani:

Silumin and its Structure.—G. B. Phillips: The Primitive Copper

Industry of America. Part II.—Kathleen E. Bingham: The Constitution

and Age-Hardening of Some Ternary and Quaternary Alloys of

Aluminium containing Nickel.—Dr. A. G. C. Gwyer and H. W. L.

Phillips: The Constitution and Structure of the Commercial Aluminium-

Silicon Alloys. With an Appendix upon the Properties of the Modified

Aluminium-Silicon Alloys, by Dr. D. Stockdale and I. Wilkinson.—

J. D. Grogan: Some Mechanical Properties of Silicon-Aluminium

Alloys.—Dr. C. S. Smith and Prof. C. R. Hayward: The Action of

Hydrogen on Hot Solid Copper.—Capt. F. R. Barton: The Development

of the Use of Nickel in Coinage.—A. Pinkerton and W. H. Tait:

Season-Cracking in Arsenical Copper Tubes.—Prof. P. Chevenard:

Thermal Anomalies of Certain Solid Solutions.—W. T. Cook and

W. R. D. Jones: Preliminary Experiments on the Copper-Magnesium

Alloys.—F. W. Rowe: Bronze Worm Gear Blanks produced by Centrifugal Casting.—L. Boscheron: An Account of the Non-Ferrous Metals

Industry in the Liège District.