

in the rhombohedral system and probably in the holohedral class, its elementary cell containing one molecule of  $\text{CrCl}_3$ , and having the side  $a = 4.42 \text{ \AA.U.}$  and the axial ratio  $c : a = 1.29.130$ . The calculated density is 2.71.—C. Perrier: Two recent notes by Philibert. The apparent biaxiality which may occur with Iceland spar when observed with the help of Federow's plate does not detract from the value of this plate when the segments are properly mounted.—D. Cattaneo: Ultramicroscopy of the crystalline lens (i.). The ultramicroscopic character of the normal crystalline lens. Ultramicroscopic investigation confirms Bottazzi's view that the protoplasm of the crystalline lens consists essentially of optically homogeneous material, but shows also that the crystalline fibres may contain a phase differing optically from such homogeneous material.

## Official Publications Received.

### BRITISH.

- Aeronautical Research Committee: Reports and Memoranda. No. 1076: Comparison of Atalanta and Model Sea Worthiness and Fore and Aft Angle. By the Staffs of the Marine Aircraft Experimental Establishment, Farnborough, and the William Froude National Tank, National Physical Laboratory. (S. 33.) Pp. 9+6 plates. (London: H.M. Stationery Office.) 1s. net.
- Royal College of Surgeons of England. Annual Report on the Museum, by the Conservator. Pp. 28. (London.)
- Annual Report of the Imperial Institute of Veterinary Research, Muktesar, for the Year ending 31st March 1926. Pp. 18. (Calcutta: Government of India Central Publication Branch.) 8 annas; 10d.
- Report of the Director-General of Public Health, New South Wales, for the Year 1925. Pp. vi+207. (Sydney, N.S.W.: Alfred James Kent.) 8s. 9d.
- Scientific and Industrial Research Council of Alberta. Report No. 18: The Bituminous Sands of Alberta. Part 1: Occurrence, Studied with respect to Commercial Development. By K. A. Clark and S. M. Blair. Pp. 74+7 plates. (Edmonton, Alta.: W. D. McLean.)
- Trinidad and Tobago. Administration Report of the Conservator of Forests for the Year 1926. Pp. 19. (Trinidad, B.W.I.: Government Printing Office, Port-of-Spain.)
- Department of Scientific and Industrial Research. Report of the Fuel Research Board for the Year 1926, with Report of the Director of Fuel Research. Pp. vi+62. (London: H.M. Stationery Office.) 1s. 9d. net.
- Air Ministry: Meteorological Office. International Meteorological Organization: Commissions for Terrestrial Magnetism and Atmospheric Electricity and for the Réseau Mondial. Reports of the Meetings in Zürich, September 1926. (M.O. 296.) Published by the Authority of the Meteorological Committee. Pp. 34. 9d. net. International Meteorological Organization: Commission for Synoptic Weather Information (formerly Commission for Weather Telegraphy). Report of the Sixth Meeting, Zürich, September 9-16, 1926. (M.O. 298.) Published by the Authority of the Meteorological Committee. Pp. 105. 2s. net. (London: H.M. Stationery Office.)
- Mines Department. Publications of the Safety in Mines Research Board. Vol. 1, 1923, 1924 and 1925. Reports and Papers relating to Research into Coal Dust, Firedamp and other Sources of Danger in Coal Mines. Subject Index. Pp. xiii. (London: H.M. Stationery Office.) 2d. net.

### FOREIGN.

- Report of the National Research Council for the Year July 1, 1925-June 30, 1926. Pp. iv+106. (Washington, D.C.: Government Printing Office.)
- Cornell University Agricultural Experiment Station. Bulletin 458: The Climate of Long Island; its Relation to Forests, Crops and Man. By Norman Taylor. Pp. 20. Memoir 100: A Study of Pogoniris Varieties. By Austin W. W. Sand. Pp. 159+3 plates. Memoir 105: The Manufacture of Cheddar Cheese from Milk pasteurized by the Holder Method. By Walter V. Price. Pp. 86. (Ithaca, N.Y.)
- Department of the Interior: Bureau of Education. Bulletin, 1927, No. 4: Bibliography of certain Aspects of Rural Education. (From January 1, 1920, to September 1, 1926.) Pp. viii+56. (Washington, D.C.: Government Printing Office.) 5 cents.
- Bulletin of the National Research Council, No. 58: Handbook of Scientific and Technical Societies and Institutions of the United States and Canada. American Section compiled by Clarence J. West and Callie Hull for the Research Information Service, National Research Council, United States; Canadian Section compiled by National Research Council, Canada. Pp. 304. (Washington, D.C.: National Academy of Sciences.) 3 dollars.
- Reprint and Circular Series of the National Research Council. No. 75: Doctorates conferred in the Sciences by American Universities, 1925-1926. Compiled by Callie Hull and Clarence J. West. Pp. 34. 50 cents. No. 76: Directory of Research in Child Development. Compiled for National Research Council Committee on Child Development by Leslie Ray Marston. Pp. 36. 50 cents. No. 77: Mathematics and the Biological Sciences. By Horatio B. Williams. Pp. 21. 25 cents. (Washington, D.C.: National Academy of Sciences.)
- The Rockefeller Foundation. A Review for 1926. By George E. Vincent. Pp. 54. (New York City.)

Bulletin geodésique. Organe de la Section de Géodésie de l'Union Géodésique et Géophysique Internationale. Année 1925, No. 7, juillet, août, septembre 1925. Pp. 351. Travaux de la Section de Géodésie de l'Union Géodésique et Géophysique Internationale. Tome 2: Rapports généraux établis à l'occasion de la Première Assemblée générale, Rome, 2-10 mai 1922. Pp. vii+99+10+77+26+85+7. (Toulouse: Édouard Privat; Paris: J. Hermann.)

Year Book, The Academy of Natural Sciences of Philadelphia for the Year ending December 31, 1926. Pp. 110+7 plates. (Philadelphia, Pa.)

State of Illinois. Department of Registration and Education: Division of the Natural History Survey. Bulletin, Vol. 16, Arts, 5 and 6: An Experimental Investigation of the Relations of the Codling Moth to Weather and Climate, by Victor E. Shelford; A Study of the Catalase Content of Codling Moth Larvae, by C. S. Spooner. Pp. 367+446. (Urbana, Ill.)

Kornstørrelseforsøk: Forsøk, undersøkelser og iakttagelser til belysning av sporsmålet—stor- eller småkornet såvare i planteproduksjonen. Av Prof. Emil Korsmo. (Særtrykk av Meldinger fra Norges Landbruks-høiskole, 1927.) Pp. 76. (Oslo: Johansen and Nielsens Boktrykkeri.)

Smithsonian Institution: Bureau of American Ethnology. Bulletin 82: Archeological Observations North of the Rio Colorado. By Neil M. Judd. Pp. ix+171+61 plates. (Washington, D.C.: Government Printing Office.) 1 dollar.

### CATALOGUE.

Radiography for the Dentist. (Bulletin No. 82.) Second edition. Pp. 37. (London: Watson and Sons (Electro-Medical) Ltd.)

## Diary of Societies.

### CONGRESSES.

- EMPIRE MINING AND METALLURGICAL CONGRESS. *Montreal Meetings, August 23 and 25.*—Sir Thomas Holland: Proposed Review of the Mineral Resources of the Empire.—G. M. Carrie and C. S. Pascoe: Magnesia Refractories for Steel Furnaces.—A. Stansfield: Smelting Titaniferous Iron Ores.—W. A. Toohey: Portland Cement in Canada.—Mining and Metallurgical Practice in Australia.—Health Safety Problems.
- Toronto Meetings, August 25 and 26.*—C. Johnson: Winning and Refining of Precious Metals from Sudbury Ores.—R. C. Stanley: Nickel, Past and Present.—A. A. Cole: The Silver Mining Industry of Canada.—J. G. Morrow: The Cascade Method of Pouring Steel.—A. Mavrogordato and H. Pirow: Deep Level Mining and High Temperatures.
- Winnipeg Meeting, September 3.*—G. E. Cole: The Development of Gold Mining in Canada.—W. A. Quince: Methods of Eliminating Barren Rock from Ore at the Sub-Nigel Mine.—C. R. Davis, J. L. Willey, and S. E. T. Ewing: Notes on the Operation of the Reduction Plant at West Springs, Ltd.—E. J. Laschinger: A New Form of Air Motor and the Measurement of Compressed Air.
- Vancouver Meeting, September 14.*—C. P. Browning: Canadian Copper and its Production.—F. J. Alcock and T. W. Bingay: Lead and Zinc in Canada.—C. J. N. Jourdan: A Brief Review of the Principal Base Metal and Base Mineral Resources of the Union of South Africa.—R. Craib: Dewatering the Lower Levels of the Simmer and Jack Mines, Ltd.—W. S. Robinson: Manufacture of Sulphuric Acid by the Contact Process. From Zinc Blende Roaster Gases.
- Edmonton Meeting, September 20.*—R. Strachan, W. J. Dick, and R. J. Lee: The Coal Industry in Western Canada.—J. Ness: Petroleum in Canada.—A. Docquier, L. Bataille, and R. Beestlone: A Combination of the Baum, the Draper, and the Froth Flotation Systems as applied to the Washing of Coal at the Linsi Mine of the Kailan Mining Administration, North China.—A. E. Cameron: Impact Resistance of Steel at Low Temperatures.
- Quebec Meetings, September 5 and 26.*—J. G. Ross: Asbestos Mining and Milling.—A. W. Nash: Possible Auxiliary Sources of Liquid Fuel.—A. Job: The Sinking and Equipment of the Ventilation Shaft of the Government Gold Mining Areas.—G. W. Sharp: The Tipping and Guiding of Vertical Skips.—P. M. Newhall and L. Pryce: Improvements in Drilling Efficiency with Jack-Hammers.
- Sydney Meetings, September 9 and 10.*—F. W. Gray: Mining Coal Under the Sea in Nova Scotia.—Sir Robert Hadfield: The Metal Manganese and its Properties; also, the Production of Ferro-Manganese and its History.—Raw Materials for the Iron and Steel Industry in India.—B. Yaneske: The Manufacture of Steel in India, by the Duplex Process.
- SEPTEMBER 1-4.
- SCHWEIZERISCHE NATURFORSCHENDE GESELLSCHAFT (at Basel) (in 14 Sections). Presidential Address by Dr. F. Sarasin.—Lectures on, respectively, The Causes and Factors of Morphogenesis, by Prof. A. Bracht; Recent Work and Views in Astronomy, by Prof. L. Courvoisier; The Urals from the Point of View of Geophysics, Geology, and Mining, by Prof. L. Dupare; Paracelsus in Relation to Modern Thought, by Prof. H. E. Sigerist.
- SEPTEMBER 4-9.
- INTERNATIONAL CONGRESS OF ZOOLOGY (at Budapest).
- SEPTEMBER 11-17.
- INTERNATIONAL CONGRESS OF PHYSICS IN COMMEMORATION OF THE CENTENARY OF VOLTA (at Como).
- SEPTEMBER 11-18.
- INTERNATIONAL CONGRESS OF GENETICS (at Berlin).
- SEPTEMBER 18-OCTOBER 3.
- INTERNATIONAL CONGRESS OF THEORETICAL AND APPLIED LIMNOLOGY (at Rome).