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THE DEVELOPMENT OF THE NATURAL SCIENCES IN CHINA¹

By Dr. AMADEUS WILLIAM GRABAU

THE GEOLOGICAL SURVEY OF CHINA

I AM deeply conscious of the honor which you, the foremost body of scientific men of my country, have conferred upon me.

That I have been able to take an active part in the development of the natural sciences in China has been due, in the first place, to the fact that my coming to Peking has coincided with the awakening of interest in, and desire for scientific education along western lines, among the Chinese intellectuals.

The Geological Survey of China had been founded a few years before, and it had but recently completed its first task—the training of a number of men in the fundamentals of geological science.

It was still housed in an old adapted and inade-

quately equipped compound, with a library consisting of a few hundred books, and a few drawers of Chinese Paleozoic fossils. But, new buildings were under construction, and under the energetic guidance of Drs. Chang, Ting and Wong, phenomenal progress was made in the equipment and acquisition of material and the investigation of Chinese geology. Dr. J. G. Andersson, foreign adviser to the Survey, had organized the scientific exploitation of the important deposits of fossil vertebrate remains and the study of these was undertaken by foreign paleontologists.

To me was assigned the study of the Chinese invertebrate fossils, while my task at the university has been the training of young Chinese paleontologists and stratigraphers.

Through the efforts of Dr. Andersson a fund had been provided to begin the publication of the Paleon-

¹Remarks on receiving the Mary Clark Thompson Medal of the National Academy of Sciences. Read by Mrs. Grabau in the absence of Dr. Grabau in China.

Three Important New Books

Emmons—Gold Deposits of the World

By W. H. EMMONS, University of Minnesota. 552 pages, \$6.00

This new book includes brief descriptions of all of the world's chief gold mining regions and of most of the lesser ones. About 500 maps and geological cross sections are presented. These show in general the intrusives with which the lodes are associated, the rocks older than the intrusives, and the rocks younger than the intrusives. The principal gold deposits are located on these maps. By illustrating the positions of known gold deposits with respect to intrusive rocks, it is believed that the prospector may be aided in his search for undiscovered deposits. All the material in the book is entirely up-to-date and much of it has not heretofore been published.

Trewartha's—An Introduction to Weather and Climate

By GLENN T. TREWARTHA, University of Wisconsin. *McGraw-Hill Series in Geography*. 360 pages, \$3.00

The purpose of this book is to meet the need for a brief introductory text covering the field of weather and climate. It is written from a climatic rather than a meteorological point of view and is designed to provide an outline for a general introductory course on the atmosphere. A distinctive feature of the book is the fact that it combines in one volume the physical and regional elements of climate. Another feature is the recognition made of the new methods of weather analysis by air-mass methods. The inclusion of bibliographic outlines at the end of each chapter in Part I is also noteworthy.

The Measurement of Radiant Energy

Edited by W. E. FORSYTHE, Incandescent Lamp Department, General Electric Company. 436 pages, \$5.00

This important new book is published under the sponsorship of the National Research Council. In the volume twenty-one specialists, each an expert in his particular field, discuss the fundamental concepts of radiation and radiation laws and explain their action and use. Types of sources, methods of operation and their radiation characteristics are given; the various methods of analyzing the radiation into wavelength intervals suitable for measuring are described; the use of non-selective measuring instruments which includes bolometers, radiometers, and thermopiles are dealt with in detail. There are also thorough treatments of the selective measuring devices which include photographic methods, photoelectric cell and photronic cells.

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