

GEOLOGICAL NOTES AND NEWS

Mr. H. C. T'an (譚錫嘯), geologist to the National Geological Survey of China, during a recent trip (March-May, 1923) through eastern Shantung has made an immense collection of fossils from the Jurassic and Eocene red beds. Of special interest are the fossil insects, reptiles, and several kinds of pelecypoda. In a short trip to Fengtien (June 8-21, 1923) for the examination of some coal mines in Yi Hsien (義縣), Mr. T'an discovered a new coal-bearing formation which, according to the gastropoda fossils collected by him and preliminary determined by Dr. A. W. Grabau, seems to be of upper Jurassic or Cretaceous age.

Mr. C. Y. Hsieh (謝家榮), geologist to the National Geological Survey of China, recently made a trip (June 10-25, 1923) to central Shantung for examining some coal mines.

Mr. T. C. Wang (王竹泉), geologist to the National Geological Survey of China, was sent out for areal mapping in NW. Shansi by the end of April, 1923. He has entered Ordos (鄂爾多斯) and made a good collection of plant fossils there. Now he is in N. Shensi and has discovered a fossil fish-bearing limestone about 30 m thick, which is probably an upper Jurassic or Cretaceous horizon and he has also collected some fossil bones from the red clay in Chin Pien Hsien (靖邊縣) and some stone implements too.

Dr. J. G. Andersson, mining adviser to the Chinese Government, and Mr. P. L. Yuan (袁復禮), geologist to the National Geological Survey of China, are now making geological exploration in Kansu. Their chief object is to study the geological formations and to make an exhaustive research on fossil bones. They intend to work there for about one year and then will proceed westward into Kukumor and Tibet, if possible.

The Third Asiatic Expedition sent by the Natural History Museum of New York and led by Mr. Roy C. Andrews is continuing their work in Mongolia. More fossil bones have been discovered. The expedition is now divided into two parts. One is working on the Dinosaur beds and the other, exploring later geological strata, in which a skull of giant Rhinoceros like Titanotheres has been discovered. The expedition is going westward into the central Gobi desert and will return to Kalgan in October.

Quite recently, an Archaeological Club (古物研究會) has been

organized by Messrs. Liang-chieh-chao (梁啟超), Chu-chieh-chien (朱啟鈴), Chang-yuan-chi (張元濟), Loo-chen-yü (羅振玉), Ting-ven-kiang (丁文江), Chang-hung-chao (章鴻釗), Chang-hsiao-liang (張學良), and Wong-weh-hao (翁文灝). This club is entirely in cooperation with the National Geological Survey of China for the research of all pre-historic archaeological objects. Collections will be made in Honan and Shansi next fall and they will be exhibited in the museum of the Survey. Research works will be published in the "Palaeontologia Sinica" series D.

Mr. G. B. Barbour, professor of the Pei Yang University Tientsin, China is working on the Mesozoic beds in Kalgan.

In complying with the order of the Ministry of Agriculture and Commerce, asking for the establishment of Provincial Geological Survey, preparations for such an organization are now in progress in the provinces of Chihli, Shantung, Shensi and Honan. In stead of the Provincial Geological Survey, a Geological Committee was organized in Kiangsu under the directorship of Mr. Chang-yi-on, (張軼歐), Director of the Board of Industry of that province. The members of this committee are Mr. V. K. Ting (丁文江), Messrs. C. C. Liu (劉季辰), C. C. Chu (竺可楨), and K. M. Hsu (徐章曼).

Teilhard de Chadin of the Museum of Natural History in Paris has come to China and now he is going to Ordos and N. Kansu with Père Licent to do some Palaeontological collections.

Berthold Laufer of the Field Museum in Chicago is in China to collect curios and archaeological objects and he also intends to study the Chinese language and the history of Buddhism.

Mr. C. W. Bishop and Mr. K. C. Tung (黃光忠) of the Smithsonian Institution arrived at Peking one month ago. They are sent by the Institution for doing some archaeological research in China.

Prof. Ellsworth Huntington of Yale University is reported to be coming to China.

Dr. O. Zdansky has done some fossil collecting work in Mên Yin, Lai Wu, Wei Hsien, etc. in Shantung and he is going to Chow Kou Tien, Fang Shan Hsien, Chihli.

The Geological Department of the National University, Peking is constantly increasing its scope of work and bettering its equipment. The

work of the third year students in geology is now grouped into 3 divisions: (1) Palaeontology and Stratigraphy, (2) Petrology and Mineralogy, (3) Economic Geology. The students of each division will take the special courses in their respective subjects while at the same time taking others in common. Under the guidance of the dean and professors they will begin to take selected areas in the field and prepare themselves for individual work. In May, 1923 the fourth year class of the first two divisions went to Shantung to study the Palaeozoic stratigraphy and palaeontology under the directions of Mr. Y. C. Sun (孫雲鑄). During that trip they discovered many new fossiliferous horizons and a good many marine faunas. This collection has furnished several new genera and a number of new species which are now being described by Mr. Sun. During the same period Prof. J. S. Lee (李四光) conducted a field trip for the second and third year students to Ki Ming Shan (鷄鳴山), Chihli and some places in Shansi for the purpose of studying the structural geology while Dean Mr. C. Ho (何杰) went with the fourth year class of the division of Economic Geology to Hupeh for studying iron deposits and mining plants.

Mr. C. P. Liu (劉基磐), Executive Head of the Department of Natural Sciences of Peking High Normal School, recently took a geological trip with the senior students to Ta Yeh, Nanking, Hangchow, Po Shan etc.

The following publications on the geology and palaeontology of Mongolia, surveyed by the Third Asiatic Expedition have appeared in the American Museum Novitates, New York City:—

A preliminary notice of the Discovery of Cretaceous and Tertiary Strata at Iron Dabasu. No. 42, American Museum Novitates, Aug. 7, 1922.

Protoceratops andrewsi, a pre-Ceratopsian Dinosaur from Mongolia, by W. Granger and W. K. Gregory with an Appendix on the Structural Relations of the *Protoceratops* Beds, by C. P. Berkey. No. 72, American Museum Novitates, May 4, 1923.

Later Sediments of the Desert Basins of Central Mongolia, by C. P. Berkey and W. Granger. No. 77, American Museum Novitates, May 25, 1923.

Baluchitherium grangeri, a giant hornless *Rhinoceros* from Mongolia, by H. F. Osborn. No. 78, American Museum Novitates, May 25, 1923.