

GEOLOGICAL NOTES.

What Has Been Done During the Summer by the Yale Department.

To a geologist vacation time does not mean rest, but rather a special opportunity for work. The Summer vacation in particular offers continuous time for scientific work, uninterrupted by University duties, and is used for exploration, mapping and collecting of specimens out of doors and for experiments and the preparation of reports and scientific articles in the laboratory.

During the past Summer the men connected with the geological department of Yale have made considerable progress. At the opening of the season, the Director of the United States Geological Survey appointed Prof. Williams to take charge of working up and mapping the geology of Connecticut, east of the 73d meridian. The work to the west of that line has been nearly completed by Prof. Hobbs of Wisconsin University.

The laboratory work done by Prof. Williams during the Summer was the completion of a bulletin on the Geology of Maine, which includes the petrographical work of Dr. Gregory in the same region. A report on the "Palæozoic Faunas of Arkansas" was nearly completed.

Prof. Penfield made an excursion into the Catskill Mountains, where mineral localities were visited. Most of his vacation, however, was spent in the laboratory, where a great amount of mineralogical work was done and articles on new minerals prepared for publication.

Prof. Beecher spent the month of July in Wyoming and Colorado, making collections for the Museum and studying geological sections. Later in the Summer he superintended the work of exploration for remains of a mastodon, found years ago in Orange County, N. Y. Most of the skeleton is now in the Museum, but the hind legs and the tusks are missing. It is Prof. Beecher's plan to continue the excavation until the complete skeleton is secured. The work is difficult and expensive, as the locality is in the midst of a swamp.

The field work done by Prof. Pirsson was in New Hampshire, where a study was made of the igneous rocks at Belknap Mountains, Red Hill, and in the vicinity of Campton. The results of the study of the collections brought back to the Museum will be given in a paper, prepared jointly by Prof. Pirsson and Dr. H. S. Washington. Considerable time was also spent in cataloguing the rock collections.

Dr. George F. Eaton, Instructor in Osteology, devoted part of his vacation to making a collection of the fossil fish at Lake Saltonstall.

Dr. Gregory, Instructor in Physical Geography, spent the entire Summer in mapping areal geology under the auspices of the United States Geological Survey. The work was mostly confined to the Granby and Meriden sheets of the Connecticut topographic atlas.

Dr. Charles H. Warren, Instructor in Mineralogy, was a member of the party which made a geological study of the Yellowstone National Park. When this party broke up, Dr. Warren spent some time examining mines and methods of working ares in Montana and Colorado.

Mr. G. R. Wieland, fellow in Geology, worked with Dr. Eaton in collecting the fossils fish at Lake Saltonstall, and later assisted Prof. Beecher in searching for the missing parts of the mastodon. Mr. Wieland's laboratory work during the Summer was on fossil turtles.

Mr. H. F. Cleland, University scholar in Geology, has been engaged collecting fossils and studying stratigraphic Geology in New York State, under the direction of Prof. Williams. He has sent some thirty boxes of fossils to the laboratory and will devote the year to their study.

Mr. Barrell, another University scholar in Geology, has spent his vacation as Assistant on the United States Geological Survey, engaged in mapping in the vicinity of Helena, Montana. He is paying particular attention to igneous rocks and is expected to present the results of his study as a thesis.

Mr. Robinson, a Civil Engineer of the Sheffield Class of 1895, acted as Assistant to Prof. Hobbs, who is engaged in mapping the geology of Western Connecticut. Mr. Robinson will continue his studies in the Geological department.

Two men from the Department have completed their course and occupy positions elsewhere. Dr. Kindle, who received his degree at the last Commencement, is engaged as a member of the Indiana State Survey. Mr. Hartzell, who was given a master's degree, has accepted a call to the chair of Geology and Biology in Wesleyan University, Bloomington, Ill.

Inauguration Plans.

Professor George P. Fisher will deliver the English congratulatory speech at the Inauguration of President Hadley in Battell Chapel, October 18.

Graduates who are interested in the Inauguration are asked to consider themselves guests of the University without special invitation. This applies to all. As it is said elsewhere, some special invitations have been issued for special reasons, but the alumni are, by virtue of their graduation, counted on as among the guests of the occasion. They will enter the Chapel in the order of graduation.

A resume of the Inauguration ceremonies, with hours and times and places of the different formalities, will be given in the next issue of the paper.

Education of the Heart.

[President G. Stanley Hall of Worcester in the Outlook.]

Instead of training memory by information studies and of making reason a center, or even considering motor activities as all-important, the education of the near future will focus upon the feelings, sentiments, emotions, and try to do something for the heart, out of which are the issues of life. It is this side of our nature which represents the human race, while the intellect, and even to a large extent the will, are acquired by each individual. The child, therefore, is phylogenetically far older than the adult, because the latter acquires, in the process of growing old, those mental additions to his make-up which are essentially of recent origin. In heart we are citizens of all time and spectators of all events, leading the life of man, past, present, and future; we are totalized: while in the intellect we are pent among the "shades of the prison-house" where narrow restrictions specialize.

Now, while the emotive side of our nature is more hereditary than the intellectual, fuller of that "ancient wealth and worth" which birth alone chiefly gives, it is susceptible nevertheless to the educational influence of the environment to a degree which till recently has hardly been suspected. Fear, anger, love, joy, sorrow, and the rest are educable, and have a long plastic period when they can be formed. The highest education, then, is that which focuses the soul upon the largest loves and generates the strongest and most diversified interests, while the worst sort of school is that which doles out facts and knowledge in such a way as to deaden instead of stimulate interest, and to inoculate by a fatal sense of finality and possession against that inflamed ardor of zest which has created all knowledge and art in the world, the development of which is the highest end and aim of education.

One thing is certain: education interest is everywhere increasing in an almost appalling way. The last five years have perhaps seen more of this process of pedagogic renaissance than the preceding twenty-five; and, if all signs do not fail, the next few years will be rich years to live in for those interested in education.

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No Fall Games.

Captain Bascom Johnson of the Yale Athletic Association has announced that there will be no Fall games at Yale this year, and but little training, except the development of a cross country team. This is meant to be a relief to the track team men who kept in training half the Summer on account of the Oxford-Cambridge games.

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