

recent article in *SCIENCE*. There is no way in which the endowment of research can be more successfully carried out than by saving for a scientific career those students who have already shown distinguished capacity for work. Not to save them, when they are already an expensive as well as a rare product, is a lamentable piece of wastefulness. The Sarah Berliner Fellowship Fund is therefore calculated to do more certain and more effective good than many a larger endowment.

C. L. F.

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#### *A FIELD SCHOOL OF GEOLOGY*

DURING the month of September a party of eleven advanced students from the Department of Geology of the University of Chicago undertook a careful examination and geologic survey of a portion of the Montrose Quadrangle of southwestern Colorado. The work was done under the direction of Dr. Wallace W. Atwood, and was the opening season of the Field School of Geology which has been established in connection with the advanced work in geology at the University of Chicago.

The headquarters during the season was Ouray, Colorado. The party lived in camp, and the work was conducted as nearly as was practicable in conformity with the requirements of the National Survey. The area selected for work was west of the Ouray Quadrangle and north of the Telluride Quadrangle. It was at the north side of the San Juan Mountains where a large variety of formations and of structural and stratigraphic problems was presented.

During the first few days the party worked as a single group, visiting typical exposures of the formations as they had been mapped in the adjoining quadrangles, in an excursion into the interior of the range for an appreciation of the mountain mass adjoining the area to be surveyed and in an examination of certain of the more accessible mines and mills in the vicinity of Ouray. At the close of this introductory work the party was broken up into "teams" of two or three each, and each

"team" was given a separate portion of the unmapped area for which that "team" was held responsible. When the work accessible to one camp had been completed, the camp was moved into the adjoining area and the new territory divided among the various "teams." Special care was given in the redistribution of work that the men received as wide a range of experience in field work as was possible. During the four weeks the party surveyed with care about 160 square miles, and had opportunity of examining a somewhat larger area. The problems met with involved many in stratigraphy, some in faulting, folding, intrusion, extrusion, glaciation and a complex erosion history. The region selected was one of great scenic beauty and of diverse human interests, so that the season in camp was a most pleasant and agreeable one. The average expense for the student, including the tuition at the university and all traveling and camp expenses, was \$150. The University of Chicago has purchased a camp outfit and it is proposed that the work of this Field School of Geology be continued in Colorado for a number of seasons. It may then be moved to some other region where there is an unsurveyed field that presents a wide range of geologic phenomena.

#### *WISCONSIN GEOLOGICAL AND NATURAL HISTORY SURVEY*

THE work of the survey, during the season just closed, has been carried on in three divisions.

I. *Geology*.—State Geologist W. O. Hotchkiss, has been in charge of a party of six men, completing the field work begun in 1910 on the Florence Iron District. This district is the western extension of the Menominee Iron Range of Michigan and connects that range with other districts to the northwest. Its geology has long been a puzzle to geologists, as well as to those interested in mining, and the results of the survey are awaited with much interest. The territory has been very carefully studied and the survey will show a considerable area in which it will be worth while to prospect for iron ore.