number of investigators. Superintendent W. H. Thomas has been designated acting director of the laboratory for the season. Dr. George T. Moore, of the Missouri Botanical Garden, assisted by F. B. Dieuaide, will conduct experiments on the production and utilization of algin. Professor Edwin Linton, of Washington and Jefferson College, will continue investigations of the parasites of fishes and the food of flounders and other fishes.

The Beaufort laboratory having been turned over to the Navy Department, no work will be done there this summer.

THE AMERICAN INSTITUTE OF MINING ENGINEERS

IN an effort to increase the scope of their war service, the American Institute of Mining Engineers will meet in Colorado during the week of September 2, to take up vital problems of immediate importance. Mining engineers from every section of the country will attend. During the meeting, trips are to be made from Colorado Springs to the Cripple Creek district, Pueblo, the Leadville district and Boulder. The week's session will open in Denver on the second of September, and will that evening move to Colorado Springs, which will be the principal headquarters for the duration of the meeting.

This is the first meeting of the entire institute in Colorado since 1896, and an appropriate entertainment program is being planned by the several hundred Colorado members. One of the special features of the entertainment will be an auto drive to the top of Pikes Peak. The sections of Colorado to be visited are rich in many war minerals of importance including ferro alloys, radium, molybdenite ores and pyrites.

Those who are directing the plans for the Colorado meeting are as follows: Committee in charge, Spencer Penrose, chairman, A. E. Carlton, chairman finance committee, George M. Taylor, vice-chairman, J. Dawson Hawkins, secretary. Denver Committees: (Arrangement) Dave G. Miller, Frank Bulkley, Geo. E. Collins; (Entertainment) F. H. Bostwick, F. E. Shepard, Howland Bancroft, B. P. Morse, J. G. Perry; (Finance) T. B. Stearns, Richard A. Parker, T. B. Burbridge.

THIRD SUMMER MEETING OF THE MATHEMATICAL ASSOCIATION OF AMERICA

IT is announced in the *American Mathematical Monthly* that the third summer meeting of the Association will be held by invitation of Dartmouth College at Hanover, New Hampshire, on Friday and Saturday, September 6-7, 1918, in conjunction with, and following, the summer meeting of the American Mathematical Society. A joint dinner will be arranged for Thursday evening, September 5, and at a joint session on Friday morning the subject of the mathematics of warfare is to be treated by men now actively engaged in government service.

During the sessions of the association on Friday and Saturday, Professor Florian Cajori, of the University of California, will deliver his address, as retiring president, on " Plans for a History of Mathematics in the Nineteenth Century "; Professor W. F. Osgood, of Harvard University, will speak " On the Mathematical Formulation of Physical Concepts and Laws as treated in the Calculus "; and Professor F. L. Kennedy, of Harvard University, will give a paper on " Some Experiments in the Teaching of Descriptive Geometry," the discussion being led by Dean O. E. Randall, of Brown University. Other features of the association's program will be announced later.

For a session on Friday members are invited to submit papers on topics of their own choosing. Abstracts of such papers in a form suitable for publication in the Secretary's report of the meeting should be sent to Professor R. C. Archibald, Brown University, chairman of the program committee, not later than August first, in order to be approved by the committee in time for publication in the printed program; authors will please state the time necessary for reading their papers. No other announcement will be made until the program is mailed to members about the middle of August.

The committee on arrangements, Professor J. W. Young, chairman, announces that Dartmouth College will open one of its dormitories for the accommodation of attending members.