

student to "imagine" the existence of an object of any form in any position in space, which ability must be cultivated in the course of the education under discussion, as it forms so important an item in solving the problems that fall within its scope.

This equipment is in successful service in Room 313, one of the freshman drawing rooms of the A. G. Lane Technical High School, and colleagues who are interested in class room devices for the demonstration in geometry and projection are cordially invited to witness its operations during instruction hours and observe the educational results.

PACIFIC COAST ASSOCIATION OF CHEMISTRY AND PHYSICS TEACHERS.

The semiannual meeting of the association was held at the University of California, Berkeley, on Saturday, July 10, 1909. The attendance at both sessions was excellent and much interest was shown in the discussions. President A. G. Van Gorder delivered an opening address on the organization of science in the high school. Mr. S. E. Coleman of the Oakland High School discussed the question: "What readjustment, if any, is desirable in the physics course of the high school, in view of the changes in university requirements?" General discussion followed. Much interest was manifested in the topic opened by Dr. Winthrop Osterhout of the University of California. This involved the recommendation of a general elementary science course in the first year of the high school and included suggestions as to the purpose and character of such a course. Mr. N. L. Gardner of the Los Angeles Polytechnic High School, gave an account of the general science course as conducted during the past two years under his guidance. In the numerous opinions presented in general discussion, one idea was frequently expressed: the need for more humanizing of science work in public schools.

The association received an urgent invitation to unite with the American Federation of Teachers of the Mathematical and Natural Sciences. This was accepted without dissenting vote. Dr. William Conger Morgan of the department of chemistry, University of California, was elected to represent the association on the editorial staff of *SCHOOL SCIENCE AND MATHEMATICS*. In the regular election of officers for the ensuing year, Mr. A. G. Van Gorder was elected president, and Mr. G. C. Barton secretary and treasurer.

At the conclusion of the formal sessions, a very pleasant social time was made pleasanter by a liberal distribution of refreshments. Quite a number of new names were added to the membership roll.

G. C. BARTON, Secretary.