

will be formed to bring together in one society the workers in different fields on the various phases of physiological optics. In this way, better cooperation will be obtained between the physicist, physiologist, psychologist, and the artist. This year is the centenary of the birth of von Helmholtz and one session of the meeting will be devoted to commemorating his work in the fields of optics, sound, and electricity. An address on "Personal Recollections of von Helmholtz" will be given by Dr. M. I. Pupin. Visits have been arranged to the plants of the Bausch & Lomb Optical Company and the Eastman Kodak Company.

THE AMERICAN ASSOCIATION FOR THE
ADVANCEMENT OF SCIENCE—
SOUTHWESTERN DIVISION

THERE are being given this autumn under the auspices of the Southwestern Division of the American Association for the Advancement of Science a series of lectures on the history of the Southwest. They are being undertaken at the special request of the Frontier Scoutmasters' Association, with the approval and support of the El Paso Council of the Boy Scouts of America. The lectures are as follows:

- October 5—The Ancient History of the Southwest as represented by the geological formations of the region: Professor W. H. Seamon, Professor of Geology at the Texas School of Mines.
- October 12—The Ancient History of the Southwest as represented by ruins, stone implements, pottery and other remains: E. A. J. Seddon.
- October 19—The Spanish Exploration of the Southwest: Mrs. M. D. Sullivan.
- October 26—American Occupation of the Southwest: Dr. F. H. H. Roberts, principal of the El Paso High School and president of the Junior College.
- November 2—History of the Mining Industry of the Southwest, from the earliest days: Lew Davis, of the El Paso Times.
- November 9—History of Irrigation in the Southwest, from the earliest days on: T. H. Clausen, of the U. S. Reclamation Service.
- November 16—History of Transportation in the Southwest: G. A. Martin, of the El Paso Herald.

November 23—The Indian Wars in the Southwest: Alvin E. Null.

November 30—The Present and Future of the Southwest: H. D. Slater, of the El Paso Herald.

The second annual meeting of the Southwest Division will be held in Tucson in the latter part of next January. It is expected that the meeting will be largely attended. There will be four scientific sections, instead of three, as at the last meeting. The Stewart Astronomical Observatory will be completed by that time, and Dr. Douglass hopes to dedicate it then as a special feature of the meeting.

ELLIOTT C. PRENTISS,
Chairman Executive Committee

THE TORONTO MEETING OF THE AMERICAN
ASSOCIATION FOR THE ADVANCE-
MENT OF SCIENCE

THE engineering section of the American Association is arranging an important program for the Toronto meeting which will occur from December 27 to 31, 1921. The arrangements for the engineering sessions are in charge of Mr. J. B. Tyrrell, mining engineer, of Toronto. The programs aim to present the application of science to the solution of engineering problems. Many of the addresses will deal especially with the recent accomplishments of scientific engineering in Canada. It will be shown how scientifically trained men have developed some of the natural resources of the Dominion and the means by which this has been accomplished. Addresses already arranged are on the work accomplished by the Hydro-Electric Power Commission of Ontario; on the mines and mining plants of Canada including an account of prospecting in the northern wildernesses; on the explorations for oil carried out in the valley of the McKenzie River by the Imperial Oil Company, and on the work of the Toronto Harbor Commission in improving the Toronto harbor for the accommodation of ships of ocean draft. All of them, and especially those dealing with exploration in the far north, will be of interest not only to engineers but also to geographers and to every one interested in the out-of-doors. These ad-