

what is the *order of blooming* in the cotton plant, the normal *time between blooms* both vertically and horizontally, the *inherent tendencies* toward regularity or irregularity of different varieties, and the factors which influence or determine these things.

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GEORGIA EXPERIMENT STATION

### THE SAN DIEGO MEETING OF THE PACIFIC DIVISION OF THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

THE first annual meeting of the Pacific Division of the American Association for the Advancement of Science was held in San Diego, California, between the dates, August 9 and 12. The headquarters for the meeting were maintained in the U. S. Grant Hotel, and the three evening sessions of the meeting were held in the assembly room of the hotel. For the day sessions of societies participating in the occasion convenient meeting places were provided in the San Diego High School by courtesy of the Board of Education of San Diego.

The first of the general sessions of the San Diego meeting was held on Wednesday evening, August 9, Dr. W. W. Campbell, president of the Pacific Division, presiding. Hon. Lyman Gage, of San Diego, spoke in welcome on behalf of the citizens of San Diego, and Dr. D. T. MacDougal, chairman of the executive committee of the Pacific Division, responded on behalf of the Division. These addresses were followed by the address of the president of the Division, Dr. W. W. Campbell, director of the Lick Observatory, Mount Hamilton, upon the subject, "What We Know about Comets," illustrated by stereopticon. After this session a reception, given under the auspices of the honorary reception committee for the San Diego meeting, was tendered to the visiting members of the American Association and of other societies participating in the meeting.

The second general session of the Division was held on Thursday evening, August 10, Dr. D. T. MacDougal, chairman of the executive committee of the Pacific Division, presiding. At this session the executive committee of the Division was reelected to serve for the ensuing year, upon nomination by a duly appointed nominating committee. The members reelected at this time were:

E. C. Franklin, professor of chemistry, Stanford University.

T. C. Frye, professor of botany, University of Washington.

C. E. Grunsky, consulting engineer, San Francisco.

G. E. Hale, director of the Mount Wilson Solar Observatory, Carnegie Institution of Washington, Pasadena.

V. L. Kellogg, professor of entomology, Stanford University.

A. C. Lawson, professor of mineralogy and geology, University of California.

E. P. Lewis, professor of physics, University of California.

These seven elected members, together with the president and the vice-president of the Division, elected by the committee, constitute the executive committee of the Division.

Following the transaction of this business, an address was given upon the subject, "Modern Natural History Museums, and their Relation to Public Education," by Dr. Barton W. Evermann, director of the museum of the California Academy of Sciences, San Francisco. This address was illustrated with stereopticon views of animal habitat groups which are being installed in the museum of the California Academy of Sciences.

The third general session of the Division was held on Friday evening, August 11, Dr. W. W. Campbell, president of the Pacific Division, presiding. At this session the following resolutions, presented by the Western Society of Naturalists, were unanimously endorsed:

IN VIEW OF THE FACT that the great natural resources of the sea in this part of the world, long known to naturalists, are beginning to be utilized; and

IN VIEW OF THE FACT that these developing industries, notably those of tuna fishing and kelp harvesting, are making conspicuous many problems of great interest, both industrial and scientific, the solution of which is possible only by long and somewhat expensive investigation;

*Resolved*, that the Western Society of Naturalists urges upon the attention of the government of the United States and the state of California the importance of giving such support, financial, legislative, administrative and otherwise, as may be necessary to place the various sea industries on a thoroughly scientific foundation; and

*Resolved*, that a committee of five, four from this society and one from the industries be appointed to act in cooperation with other representatives of the industries for the furthering of the ends indicated in these resolutions.

*Resolved*, that these resolutions be presented to the Pacific Division for its consideration with the hope that its approval may be given.

Following the business of this session an address was presented upon the subject, "The Physician of To-morrow," by Dr. F. F. Westbrook,

president of the University of British Columbia, Vancouver.

The societies holding meetings on this occasion were the Astronomical Society of the Pacific, the Cordilleran Section of the Geological Society of America, the Western Society of Naturalists, the Pacific Slope Branch, American Association of Economic Entomologists, and the Ecological Society of America. The San Diego Society of Natural History and the Pacific Coast Branch of the American Phytopathological Society also participated in the meetings of the Western Society of Naturalists.

On Friday afternoon, the Women's Board of the Panama-California International Exposition received visiting members of the American Association and of participating societies in the rooms of the board in the California building on the exposition grounds.

The period of the meeting was closed, except for excursions, by a dinner held on the evening of Saturday, August 12, in the U. S. Grant Hotel. At this dinner, Mr. Edward L. Hardy, president of the California State Normal School at San Diego, presided, and addresses were presented by Dr. W. W. Campbell, director of Lick Observatory, Mount Hamilton, California; Dr. John C. Merriam, professor of paleontology and historical geology, University of California; Dr. F. F. Westbrook, president of the University of British Columbia, Vancouver; and Dr. F. R. Burnham, San Diego.

During the days following the meeting, excursions were arranged as follows:

Through the courtesy of the United States Bureau of Fisheries, the *U. S. S. Albatross* was in port at San Diego during the period of this meeting, and was made available for a demonstration trip on the morning of Saturday, August 12.

Automobiles were provided, through the courtesy of the San Diego Chamber of Commerce, for an excursion to the works of the Western Salt Company, South San Diego, and to the Otay Valley and the Coronado peninsula, on Saturday morning, August 12.

An excursion was arranged on the afternoon of Saturday, August 12, under the auspices of the Ecological Society of America, including in its itinerary the Scripps Institution for Biological Research near La Jolla, an isolated colony of Torrey pines, six miles north of La Jolla, and the beach near the Scripps Institution.

On Sunday, August 13, through the courtesy of the Hercules Powder Company and of Swift and

Company, opportunity was afforded members of the association and participating societies to inspect the processes of the chemical reduction of kelp at the plants recently established in San Diego by these two concerns.

A notable excursion occupied Sunday and Monday, August 13 and 14, in which, as guests of the San Diego Society of Natural History, a party of thirty-two was conducted by automobile through the mountains of the central part of San Diego County to the edge of the Colorado Desert, accomplishing a trip of over two hundred miles. Saturday night was spent in camp in the mountains at the edge of the desert.

In the provision for these excursions, the Pacific Division of the American Association is greatly indebted to Mr. E. W. Scripps, of Delmar, San Diego County, for donating a fund from which a great portion of the expense of these excursions was defrayed. The fund placed these excursions within the reach of a large number of visiting members.

On Wednesday afternoon, August 9, the dedication of the recently completed museum and library building and the concrete wharf was held at the Scripps Institution for Biological Research at La Jolla. At these exercises Dr. Benjamin Ide Wheeler, president of the University of California, presided. The invocation was given by the Rt. Rev. Joseph H. Johnson, bishop of Los Angeles, and the following addresses were presented:

The Training of Scientific Men, David Starr Jordan, chancellor emeritus of Stanford University, California.

Biological Research Institutions: Organization, Men and Methods, D. T. MacDougal, director of the department of botanical research, Carnegie Institution of Washington, Tucson.

The Sources of the Nervous System, G. H. Parker, professor of zoology, Harvard University.

What the Scripps Institution is Trying to Do, William E. Ritter, scientific director, Scripps Institution for Biological Research, La Jolla.

The total registered attendance at the San Diego meeting included ninety members of the association and of participating societies from outside San Diego, and thirty members from San Diego and vicinity; making a total of one hundred and twenty. The total number of sessions was sixteen. In addition to the registered attendance, several of the sessions received a large general attendance from San Diego.

ALBERT L. BARROWS,  
*Secretary, Pacific Division*