

*The relations between the salinity of water and the osmotic pressure of nereocystis:* ANNIE MAX HURD, University of California.

*Gistel's natural history:* DAVID STARR JORDAN.

*The English sparrow has arrived in Death Valley:* J. GRINNELL, University of California.

*The Steinhart Aquarium of the California Academy of Sciences:* B. W. EVERMANN, California Academy of Sciences

*Some phases of plant succession due to grazing:* C. H. SHATTUCK, University of California.

*Larval stages of the Japanese blood-fluke, Shistosoma japonicum:* W. W. CORT, University of California.

*Genetic investigations of the Compositæ:* E. B. BABCOCK, University of California.

*New habitat groups in the museum of the California Academy of Sciences:* B. W. EVERMANN.

*Demonstration of a plankton net:* W. E. ALLEN.

*The discovery of some new white fishes in Bear Lake, Idaho:* J. O. SNYDER, Stanford University.

*The work of the Committee on Zoological Investigation of the Council of Defense of California:* B. W. EVERMANN.

*The Escalonias in Golden Gate Park:* ALICE EASTWOOD.

*The five-toed kangaroo rats of west-central California:* J. GRINNELL.

*Orthogenesis:* DAVID STARR JORDAN.

*Mussels of the Pacific Coast:* E. P. RANKIN, U. S. Bureau of Fisheries.

*The ovulation and Estrus cycle in the rat:* J. A. LONG, University of California.

*Bacteriology of peanut butter:* IVAN C. HALL.

*The inspection of foods in mills and warehouses:* R. W. DOANE, Stanford University, California.

*Structure of embryonic heart muscle:* E. D. CONGDON, Stanford University.

*What kinds of botany does the world need now:* G. J. PEIRCE.

Papers were read for C. V. Taylor, Forrest Shreve and D. T. MacDougal, the authors not being present.

#### THE TENNESSEE ACADEMY OF SCIENCE

THE tenth meeting (seventh annual meeting) of the Tennessee Academy of Science was held on November 29, 1918, at Vanderbilt University, Nashville, Tenn., President John T. McGill presiding. The program was as follows:

Memorial Sketch of Dr. A. H. Purdue, by Dr. L. C. Glenn.

Annual address of the president, "Tobacco

smoke; its composition and toxicity," by Dr. John T. McGill.

A vocational survey of the chemical industries of Nashville, by Professor H. A. Webb.

The effect of the Old Hickory Works upon Cumberland River water, by Dr. W. H. Hollinshead.

Reelfoot Lake water, by Dr. J. I. D. Hinds.

On the temperature of reduction with hydrogen, by Dr. J. H. Ransom and Dr. J. L. St. John.

The sulphur industry in the United States, by Miss Gretchen H. Lee.

The differential action of lime and magnesia upon the conservation of soil sulphur, by Professor W. H. McIntire.

Carbocoal, a new smokeless fuel from high volatile coals, by Dr. C. H. Gordon.

Geology as applied to warfare, by Wilbur A. Nelson.

The contributions of biology to winning the war, by Dr. E. E. Reinecke.

Forestry and the war, by R. S. Maddox.

Uses of meteorology in the war, by Roscoe Nunn.

The geographic basis of the European war, by Professor A. E. Parkins.

The migration of the birds of the Mississippi Valley, with special reference to Reelfoot Lake, by W. D. Howser.

The future of the airplane, by Latimer J. Wilson.

The election of officers for the ensuing year resulted as follows:

*President*, Dr. L. C. Glenn, Vanderbilt University, Nashville, Tenn.

*Vice-president*, Professor Scott C. Lyon, Southwestern Presbyterian University, Clarksville, Tenn.

*Editor*, Dr. C. H. Gordon, University of Tennessee, Knoxville, Tenn.

*Secretary-Treasurer*, Roscoe Nunn, U. S. Weather Bureau, Nashville, Tenn.

ROSCOE NUNN,  
*Secretary*

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