

intelligible explanation. In the light of the investigations of Clowes⁷ and of Fenn⁸ upon the influence of inorganic salts upon the state of aggregation of oil emulsions and of proteins in solution it would appear not at all improbable that the striking phenomena of salt-antagonism which Osterhout has shown to depend upon the preservation of minimal cell-permeability, owe their origin to antagonistic alterations of the state of aggregation or displacements of the radial distribution of the lipid granules of the cell, resulting, when either of the mutually antagonistic salts is present in excess, in enlargement of the interstitial pores. T. BRAILSFORD ROBERTSON

UNIVERSITY OF CALIFORNIA

THE UTAH ACADEMY OF SCIENCES

THE tenth annual convention of the Utah Academy of Sciences was held at Salt Lake City, April 6 and 7, 1917, in the Young Memorial Building.

Four sessions were held beginning as follows: Friday, April 6, at 2 P.M. and again at eight P.M., Saturday, April 7 at 10 A.M. and the closing session at 2 P.M.

President Frank S. Harris occupied the chair at all the sessions.

Dr. Geo. R. Hill, Jr., of the Utah Agricultural College, Dr. Perry G. Snow and Dr. Newton Miller, of the University of Utah, and C. Arthur Smith, of the East High School, Salt Lake City, were elected fellows.

The following were elected to membership: Dr. Orin Tugman, U. U., Professor Walter A. Kerr, U. U., Dr. Frederick S. Pack, U. U., Dr. Joseph F. Merrill, U. U., Professor Elbert D. Thomas, U. U., Mr. James S. Godfrey, U. U., Mr. John W. Sugden, U. U., Dr. Walter D. Bonner, U. U., Professor Hyrum Schneider, U. U., Professor Geo. Coray, U. U., Professor Sherwin Maeser, B. Y. U., Provo, Clarence F. Korstian, Forest Service, Ogden, H. J. Frederick, U. A. C., Professor Clarence J. Sorensen, U. A. C., Logan, Mr. Sidney B. Sperry, Salt Lake City, Mr. L. A. Giddings, East High School, Salt Lake City, Mr. L. Moth Iverson, Salt Lake City, Mr. James W. Jones, Salt Lake City and Mr. Tom Spalding, Provo.

The following are the officers for the ensuing year:

⁷ Clowes, G. H. A., *Journal of Physical Chemistry*, 20 (1916), p. 407.

⁸ Fenn, W. O., *Proc. Nat. Acad. of Sciences*, Washington, 2 (1916), pp. 534 and 539.

President—W. D. Neal, Salt Lake City.

First Vice-president—Dr. L. L. Daines, U. U., Salt Lake City.

Second Vice-president—Dr. W. E. Carroll, U. A. C., Logan.

Permanent Secretary—A. O. Garrett, East High School, Salt Lake City.

Assistant Secretary—C. Arthur Smith, East High School, Salt Lake City.

Councilors—Dr. Newton Miller, U. U., Salt Lake City; C. Arthur Smith, East High School, Salt Lake City, and Professor Carl Eyring, B. Y. U., Provo.

The following papers and lectures were presented:

"The Pressure-watt Characteristics of Drawn Wire Tungsten Lamps," by C. Arthur Smith, East High School, Salt Lake City.

"The Variation of the Electric Conductivity of Thin Metal Films," by Dr. Orin Tugman, U. U., Salt Lake City.

"The Anastomosing of Arteries and Veins in a Family of Cats," by Dr. Newton Miller and Mr. James Godfrey, U. U. (Paper presented by Mr. Godfrey.)

"Preformation in Modern Science," by Dr. Newton Miller.

"The World without Science" (presidential address), by Dr. Frank S. Harris, U. A. C.

"The Value of Scientific Research in Forestry," by Mr. Clarence F. Korstian, Forest Service, Ogden.

"Comparative Essay on some Birds of Europe and North America," by L. Moth Iverson, Salt Lake City.

"The Effectiveness of the Corrosive Sublimite Treatment of Potatoes," by Mr. Bert L. Richards and Dr. Geo. R. Hill, Jr., U. A. C. (Paper presented by Dr. Hill.)

"Factors affecting the Planting of Various Crops," by Howard J. Maughan, U. A. C.

"Freezing Temperatures in Fruit Buds," by Dr. Frank L. West, U. A. C.

"Sugar Beet Syrup for Young Pigs," by Dr. W. E. Carroll, U. A. C.

"The Present Situation of Rabies in the State," by Dr. L. L. Daines, U. U.

"The Time Element in Voluntary Control," by Dr. Geo. S. Snoddy, U. U.

"The Liquid Sulfur-dioxid Method of determining Aromatic Hydrocarbon Oils," by Mr. Joseph, U. U.

"The Destructive Distillation of Gilsonite," by Mr. Erickson, U. U.

A. O. GARRETT,
Permanent Secretary