

been assumed by Goldschmidt,⁴ Hertwig,⁵ Banta,⁶ and others working with intersexes that in their animals the normal sex-determining mechanism itself was failing to function as usual. The present example shows that such an assumption can not be accepted without proof.

A. H. STURTEVANT

COLUMBIA UNIVERSITY AND
CARNEGIE INSTITUTION

THE ILLINOIS STATE ACADEMY OF SCIENCE

THE thirteenth annual meeting of the Illinois State Academy of Science was held at Danville, Illinois, February 20 and 21, 1920, under the presidency of Dr. Henry B. Ward, of the University of Illinois.

The principal items of business transacted were the following: The academy voted unanimously to become affiliated with the American Association for the Advancement of Science under the terms adopted by the council of the association at the St. Louis meeting. It was voted that one half-day session of the next annual meeting be devoted to section meetings and the following sections were provided for: medicine and public health; biology and agriculture; geology and geography; chemistry and physics; mathematics and allied sciences; the science of education and education in science. It was voted that the council of the academy be empowered to select chairmen for these sections. The committee appointed last year to secure affiliation of science clubs in high schools with the academy reported five such clubs which had accepted the terms of affiliation, two of these taking national membership under the plan of affiliation with the American Association for the Advancement of Science.

In addition to the regular program of scientific papers, Dr. Henry B. Ward, president of the academy delivered an illustrated lecture on Alaska.

The following officers were elected for the ensuing year: Dr. Henry C. Cowles, University of Chicago, president; Dr. Chas T. Knipp, University of Illinois, vice-president; J. L. Pricer, State Normal University, Normal, secretary; Dr. W. G. Wat-

⁴*Proc. Nat. Acad. Sci.* (1916), 2, pp. 53-58; *Jour. Exper. Zool.* (1917), 22, pp. 593-611, and elsewhere.

⁵*Biol. Zentralbl.* (1912), 32, pp. 65-111, and elsewhere.

⁶*Proc. Nat. Acad. Sci.* (1916), 2, pp. 578-583, and (1918) 4, pp. 373-379.

erman, Northwestern University, treasurer. Dr. A. R. Crook, State Museum, Springfield, is ex-officio librarian of the academy, in charge of the sale of back numbers of the transactions and of the exchange of current issues.

One hundred and five new members were elected to the academy.

The following are the titles of the papers presented at the different sessions:

Development of smokeless fuel from Illinois coal: PROFESSOR S. W. PARR, University of Illinois, Urbana.

Tastes and odors in the Danville water supply in the summer of 1919: DR. EDWARD BARTOW and R. E. GREENFIELD, Illinois State Water Survey, Urbana, and H. N. ELY, Superintendent, Interstate Water Co., Danville.

A new test indicator for water analysis: R. E. GREENFIELD, Illinois State Water Survey, Urbana.

The founding of sanitary districts: DR. EDWARD BARTOW, Illinois State Water Survey, Urbana.

Some comments on the present status of tuberculosis: DR. WALTER G. BAIN, St. John's Hospital, Springfield. During the war, chief of the laboratory service of the U. S. Army General Hospital No. 8.

Statistical study of the incidence and mortality of influenza in Illinois: DR. HENRY B. HEMENWAY, Division of Vital Statistics, State Department of Public Health, Springfield.

Report of progress at Illinois State Museum: DR. A. R. CROOK, chief of Division of State Museum, Springfield.

Gaining and losing power: O. L. REDFIELD, Chicago.

The progress of barberry eradication in Illinois: L. R. TEHON, assistant pathologist, U. S. Department of Agriculture.

Road oil and its uses: DR. A. F. GILMAN, Illinois Wesleyan University, Bloomington.

The absorption of oxides of nitrogen formed in silent discharge: DR. F. O. ANDEREGG, Purdue University, Lafayette, Ind.

A possible standard of sound; a further study of wave form and operating conditions: DR. CHAS. T. KNIPP and C. J. LAPP, University of Illinois.

Evidence that catalase is the enzyme in animals and plants, principally responsible for oxidation: DR. W. E. BURGE, University of Illinois, Urbana.

New species of fossils from the Devonian limestone in Rock Island County, Illinois: DR. T. E. SAVAGE, University of Illinois, Urbana.

- The formation of clay balds in arid lands:* DR. W. H. HAAS, Northwestern University, Evanston.
- The intercession of Pike River near Kenosha, Wis.:* JOHN R. BALL, Northwestern University, Evanston.
- The effect of sewage and other pollution on animal life of rivers and streams:* DR. FRANK COLLINS BAKER, curator of Natural History Museum, University of Illinois, Urbana.
- A possible interpretation of the synchronous flashing of fireflies:* DR. CHRISTIAN A. RUCKMICK, University of Illinois, Urbana.
- Animal physiological life histories and modern methods of representing climate:* DR. V. E. SHELFORD, Natural History Survey, University of Illinois, Urbana.
- Sexual dimorphism in the Acanthocephala:* DR. H. J. VAN CLEAVE, University of Illinois, Urbana.
- Notes on the life history of the Crane-fly of the genus Geranomyia Haliday:* C. P. ALEXANDER, University of Illinois, Urbana.
- A review of the species of water mites:* DR. RUTH MARSHALL, Lane Technical High School, Chicago.
- The morphology of the antorbital process in the Urodeles:* GEO. W. HIGGINS, University of Illinois, Urbana.
- Some controlling factors in the use of fungous diseases in combatting insect pests:* DR. R. D. GLASGOW and C. S. SPOONER, University of Illinois, Urbana.
- A comparison of soil temperature in up-land and bottom-land forests:* DR. W. B. McDUGALL, University of Illinois, Urbana.
- An effect of topography and exposure on plant distribution:* DR. H. S. PEPOON, Lake View High School, Chicago.
- Topographic relief as a factor in plant succession:* DR. GEO. D. FULLER, University of Chicago, Chicago.
- On the plant ecology of Ogle County, Illinois:* H. DE FOREST, introduced by DR. GEO. D. FULLER, University of Chicago, Chicago.
- A note on the distribution of oaks in LaSalle County:* DR. GEO. D. FULLER, University of Chicago.
- Preserves for ecological study.* (The work of the Ecological Society of America's committee): DR. V. E. SHELFORD, University of Illinois, Urbana.
- Distribution of oaks on Lake Chicago beaches in Evanston and New Trier Townships:* DR. W. G. WATERMAN, Northwestern University, Evanston.
- Forest distribution in northern Evanston and southeastern New Trier Townships:* LILLIAN MARGARITE SIMMONS, Northwestern University, Evanston. (Introduced by DR. W. G. WATERMAN.)
- A probable cause of foot rot of wheat:* DR. F. L. STEVENS and E. DUNGAN, University of Illinois, Urbana.
- The sooty blotch of pome fruits:* A. C. COLBY, University of Illinois, Urbana.
- The genus Septoria, presented in tabulation, with discussion:* PHILIP GARMAN and DR. F. L. STEVENS, University of Illinois, Urbana.
- Forest types and forest associations:* (a) *From the ecologist's point of view:* DR. HENRY C. COWLES, University of Chicago, Chicago. (b) *From the forester's point of view:* R. B. MILLER, state forester of Illinois, Urbana. General discussion, by DR. GEO. D. FULLER and DR. A. G. VESTAL.
- The cause of increased oxidation in the fertilized egg:* DR. W. E. BURGE, University of Illinois, Urbana.
- Notes on the life history of Psithyrus, an inquiline in the nests of Bumblebees:* THEODORE H. FRISON, University of Illinois, Urbana.
- Cnidosporidia in the vicinity of Urbana:* DR. R. KUDO, University of Illinois, Urbana.
- The cultivation of Spirochaeta Novyi without the use of tissues from animal organs:* C. H. BEHRENS, Purdue University, Lafayette, Ind.
- The relation of legibility of the printed page to reading:* MADISON BENTLEY, University of Illinois, Urbana.
- The cumulative effects of rational increments:* COLEMAN R. GRIFFITH, University of Illinois, Urbana.

J. L. PRICER,
Secretary

NORMAL, ILL.

SCIENCE

A Weekly Journal devoted to the Advancement of Science, publishing the official notices and proceedings of the American Association for the Advancement of Science

Published every Friday by

THE SCIENCE PRESS

LANCASTER, PA.

GARRISON, N. Y.

NEW YORK, N. Y.

Entered in the post-office at Lancaster, Pa., as second class matter