

series of two, the largest eye being common to both series. All these eyes are complete in all their parts (lens, retina, etc.), though differing greatly in size, development of optic nerve and degree of external abstriction. All are internally completely occluded except the least developed, which still connects by a lumen with its "parent" eye. The growth is orderly in that it secures (a) the same axial orientation, (b) the same polar orientation, (c) freedom from mutual interruption of vision, (d) nearly maximum compactness. No other possible arrangement secures all these. The mass of tissue in the group is greater than in the normal eye. The case is unique in the literature. The possibility that it represents not proliferation but unequal development of the fragments of a broken-up *anlage* is admitted, but rejected as a probability. If a true case of repetitive proliferation of such specialized structures as these eyes, then near analogies are lacking.

The following exhibits were presented:

Inheritance of Color in the Common Clover Butterfly (Colias philodice): (a) 125 Descendants (F_1 and F_2) of a White Female. (b) Offspring of an Aberrant Female of the Spring Brood, resembling the Arctic Species (*Colias nastes*, Boisd.): J. H. GEROULD, Dartmouth College.

Cytological and Other Characteristics of the Diverse Races of Paramecium: H. S. JENNINGS and G. T. HARGITT, Johns Hopkins University.

Specimens of the 1,500th Generation of Paramecium, attained without Artificial Stimulation or Conjugation: L. L. WOODRUFF, Yale University.

HERBERT W. RAND,
Secretary

HARVARD UNIVERSITY

THE ASSOCIATION OF OFFICIAL SEED ANALYSTS

THE second annual meeting of the Association of Official Seed Analysts was held in Boston, December 28-29, 1909, in connection with the meeting of the American Association for the Advancement of Science.

Agricultural colleges, experiment stations and state departments of agriculture in twelve states and the Canadian and the United States departments of agriculture were represented.

Three papers were presented as follows:

"The Effect of Alternating Temperature on the Germination of Seeds," by W. L. Goss, U. S. Department of Agriculture.

"Importance of Uniform Methods of Seed Testing," by A. D. Selby, Ohio Agricultural Experiment Station.

"The Sale of Adulterated Farm Seeds in the United States," by E. Brown, U. S. Department of Agriculture.

The greater part of the time of the meeting was devoted to consideration of the reports of the committees on methods of seed testing and on legislation. The report on methods of seed testing for purity was adopted as official by the association and that on germination as provisional. The report on state legislation was adopted and the secretary was instructed to prepare both reports for publication.

E. BROWN,
Secretary

SOCIETIES AND ACADEMIES

THE THIRD ANNUAL MEETING OF THE ILLINOIS STATE ACADEMY OF SCIENCE

IN attendance, number and character of papers presented, and in the general spirit of enthusiasm and interest, the meeting at Urbana, February 18 and 19, is regarded with great satisfaction by those who had the good fortune to be present.

More than one hundred new members were elected, so that now the academy, while but three years old, has something more than four hundred names enrolled on its list—a fact which speaks well both for the enthusiasm and the spirit of helpfulness of Illinois men of science, and which repudiates the idea that men of science are recluses.

About one hundred and fifty people were present at the various meetings.

The program was as follows:

"Dr. A. W. French," In Memoriam, A. R. Crook.

"A Needed Piece of Work in the Interest of our Young Investigators in Biology," T. W. Galloway.

"The Vegetational History of a Blowout," H. A. Gleason. (Lantern.)

"Recent Habitat Changes in the Illinois River," Chas. C. Adams. (Lantern.)

"Forest Successions on Isle Royale," Wm. S. Cooper. (Lantern.)

"An Ecological Study of the Fish of a Small Stream," Thomas L. Hankinson.

Address of welcome by the president of the University of Illinois.

Presidential address—"Relations of the Illinois Academy of Science to the State," Stephen A. Forbes.