

body cavity. Anterior to this septum the abdominal cavity is entirely empty.

In the resting spore condition the fungus mass, in the males, in the early stages at least, likewise confined to the posterior portion of the abdomen, is at first white, then sulphur yellow and finally greenish brown or brown in color, and only slightly coherent. While the fungus in this stage of development seems likewise to be confined to the genitalia of the host, there is apparently no septum formed, and at maturity the resting spores, scatter about the entire body cavity. The resting spores, which are extremely uniform in size, are remarkably ornamented and at maturity form a dustlike mass which is freed from the insect by the disintegration of the intersegmental membranes of the abdomen.

In the few infected females that the writer has examined the fungus mass fills nearly the entire body cavity.

As noted by previous writers, many infected cicadas were found still alive and actively flying about with but a portion of the abdomen remaining, the entire posterior portion having sloughed off leaving the conidia or resting spores of the fungus exposed in such a way that every movement of the host served to scatter them.

It is hoped that a full account of the life history of this fungus will be published soon.

A. T. SPEARE

BUREAU OF ENTOMOLOGY,  
WASHINGTON, D. C.

#### THE OHIO ACADEMY OF SCIENCE

THE twenty-ninth annual meeting of the Ohio Academy of Science was held at Ohio State University, Columbus, May 29 to 31, 1919, under the presidency of Professor Maynard M. Metcalf. Seventy-nine members were registered as present; forty new members were elected.

The academy formally recognized the establishment of a new section for Psychology, with an initial membership of about twenty.

It was reported by the trustees of the Research Fund that Mr. Emerson McMillin, of New York City, had made a further contribution of two hundred and fifty dollars in support of research work by the academy.

At the close of the formal session, the geologists, under the leadership of Professors J. E. Hyde and T. M. Hills, made an excursion to Newark for the study of glacial physiography and the Upper Waverly formation, while Professor W. M. Barrows conducted a zoological and botanical excursion to Sugar Grove.

Officers were elected as follows: *President*, F. C. Blake, Ohio State University; *Vice-presidents*: *Zoology*, F. H. Herrick, Western Reserve University; *Botany*, A. B. Plowman, Municipal University of Akron; *Geology*, J. E. Hyde, Western Reserve University; *Physics*, M. E. Graber, Heidelberg University; *Medical Sciences*, R. J. Seymour, Ohio State University; *Psychology*, G. R. Wells, Ohio Wesleyan University; *Secretary*, E. L. Rice, Ohio Wesleyan University; *Treasurer*, W. J. Kostir, Ohio State University.

The scientific program was as follows:

#### PRESIDENTIAL ADDRESS

*The scientific spirit*: PROFESSOR MAYNARD M. METCALF, printed in SCIENCE for June 13, 1919.

#### PUBLIC LECTURE

*Airplanes, present and future*: MR. DAVID CARROLL CHURCHILL, Oberlin.

#### PAPERS

*The theory of chance applied to the Bacon-Shakespeare controversy*: T. C. MENDENHALL.

*Teleology in the teaching of zoology*: W. M. BARROWS.

*Dynamics and evolution as illustrated in the euglenoids*: L. B. WALTON.

*Notes on a technique for the study of Euglenidæ*: W. J. KOSTIR.

*The comparative resistance of different species of Euglenidæ to acids*: W. J. KOSTIR.

*Notes on a tingid destructive to beans*: HERBERT OSBORN.

*The European corn borer (Pyrausta nubilalis Hubn) a menace to American agriculture*: E. C. COTTON.

*The stratification of spiders in meadows*: W. M. BARROWS.

*Concerning the attachment of larval colonies of Pectinatella and Plumatella*: STEPHEN R. WILLIAMS.

*Remarks on the phylum Prosopygia*: RAYMOND C. OSBURN.

*The bryozoan fauna of Greenland*: RAYMOND C. OSBURN.

*Classification of the Salpidæ*: MAYNARD M. METCALF.

*The remarkable fauna of a drop of pond water*: W. J. KOSTIR.

*Polymorphism and allelomorphism in Bruchus quadrimaculatus*: J. K. BREITENBECHER.

*Circulation of cœlomic fluid in a nematode*: F. H. KRECKER.

*Egg laying of a leech, Piscicola*: F. H. KRECKER.  
*The columella auris of the reptiles*: EDWARD L. RICE.

*Information wanted in zoological and botanical cases to be cited:* KATHARINE D. SHEAR.  
*Use of airplane in studying vegetation:* PAUL B. SEARS.  
*A map of Ohio prairies:* P. B. SEARS.  
*Brief notes on some Ohio plants:* L. S. HOPKINS.  
*A remarkable bud sport of Pandanus:* JOHN H. SCHAFFNER.  
*The nature of dieciousness in the hemp:* JOHN H. SCHAFFNER.  
*Xenia in maize and rye:* A. E. WALLER.  
*Some biological relations of the Hysteriales:* BRUCE FINK.  
*A hitherto undescribed ascomycete:* FREDA DETMERS.  
*Witches broom of bald cypress:* FREDA DETMERS.  
*Abscission of Populus deltoides (common cottonwood):* LOIS LAMPE, introduced by FREDA DETMERS.  
*Toxic and antagonistic effects of salts on yeast (Saccharomyces ellipsoideus):* SWARNA K. MITRA, introduced by E. N. TRANSEAU.  
*Two serious diseases of wheat new to America:* W. G. STOVER.  
*Estimates on the thickness of the sedimentary rocks of Ohio:* T. M. HILLS.  
*Some geological features in the Akron region:* G. F. LAMB.  
*Some future industrial centers in America as seen by a geographer:* GEO. D. HUBBARD.  
*The location of the barrier between the Ohio and Mississippi Valley basins in Richmond times:* AUGUST FOERSTE.  
*Some aspects of the Waverly:* J. E. HYDE.  
*The pyrite deposits in the Ohio coals:* W. M. TUCKER.  
*The correlation of Ohio Silurian strata with those of Indiana:* AUGUST FOERSTE.  
*Elongation of nickel in transverse magnetic fields:* H. A. BENDER.  
*The prevention and treatment of pneumonia:* E. F. MCCAMPBELL.  
*Recent advances in the auditory method of measuring blood pressure:* CLYDE BROOKS.  
*Vaccines and serums in coccus infections:* C. B. MORREY.  
*Five years of progress in medical entomology:* EDNA MOSHER.  
*A note on the technic of smear preparations:* F. L. LANDACRE.  
*Differentiation of mucous and serous cells:* EVA CAMPBELL, introduced by F. L. LANDACRE.  
*Note on the effect of dry heat upon the blood of Guinea pigs:* JONATHAN FORMAN.  
*Observations upon the complement content of the blood of guinea pigs which have been subjected to dry heat:* CARL H. SPOHR.  
*Observations on the death of guinea pigs induced by dry heat:* ERNEST SCOTT.  
*A model illustrating some features of urinary secretion:* MARTIN H. FISCHER.  
*The muscle-twitch curve:* E. P. DURRANT.  
*Vitamine tests with chicks:* R. J. SEYMOUR and E. P. DURRANT.  
*An anomalous frog heart:* E. P. DURRANT.  
*A modified Waterhouse test for pure butter:* CHAS. P. FOX.  
*Demonstration of Mendel's law:* W. M. BARROWS.

*Observations on the diagnosis of contagious abortion by guinea pig inoculation:* W. A. STARIN.  
*Fat absorption in earthworm, salamander and frog:* CHAS. G. ROGERS.  
*The nature of the lyophilic colloids and their importance in theoretical and applied science:* MARTIN H. FISCHER.  
*The normality vs. the psychopathy of the precocious child:* FLORENCE MATEER.  
*The clinical function of psychology:* FLORENCE MATEER.  
*Short methods of individual examination used by psychologists in the army:* JAMES W. BRIDGES.  
*Psychological study of a delinquent:* LOUISE WOOD.  
*The very bright child:* C. THOMPSON JONES.  
*The moral and religious psychology of late senescence:* T. BRUCE BIRCH.  
*Psychology applied to the problems of everyday life:* A. W. TRETTEIN.  
*The vocality of fork, violin and piano tones:* ESTHER GATEWOOD.  
*Relations of images in recall to directly aroused sensations:* A. SOPHIE ROGERS.

## DEMONSTRATIONS

*A case of apparent triple superfetation in the cat:* R. A. BUDINGTON.  
*Growths on glass slides submerged in open sea water ten days:* R. A. BUDINGTON.  
*Exhibit of Ohio Cicadellidæ:* HERBERT OSBORN.  
*Indications of circulation of coelomic fluid shown by preserved nematodes:* F. H. KRECKER.  
*Model of nasal region of the lizard, Eumeces:* ELVA PUMPHREY, introduced by EDWARD L. RICE.  
*Sections of columella auris of the lizard, Eumeces:* EDWARD L. RICE.  
*A hitherto undescribed ascomycete:* FREDA DETMERS.  
*Auditory method of measuring blood pressure:* CLYDE BROOKS.  
*Technic of smear preparations:* F. L. LANDACRE.  
*Model illustrating some features of urinary secretion:* MARTIN H. FISCHER.  
*A new muscle lever:* E. P. DURRANT.  
*An adjustable spring-myograph:* E. P. DURRANT.  
*An anomalous frog heart:* E. P. DURRANT.  
 EDWARD L. RICE  
 Secretary

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