

1. The true blight fungus fruits earlier and more abundantly and discharges the spore drops more conspicuously than *Endothia gyrosa*.

2. It has more numerous, but less evident, smaller and more embedded fruiting bodies than the latter, where they are often elevated, distinct pustules, less covered by the exuding spore drops.

3. It develops a much less luxuriant aerial mycelium than the latter, except possibly in potato agar, where the growth in both at first is largely embedded, and much more highly colored with the former.

4. Its aerial mycelium, at first white, in old cultures is finally much less uniformly and highly orange colored than that of the latter, especially on oat agar, where the difference in the luxuriance and color of the two is usually striking.

Inoculations proving the parasitic nature of the chestnut blight fungus have been made previously by Murrill and others. Our inoculations were nearly all with pure cultures from various sources. We have produced cankers on seedling trees and chestnut sprouts, but more readily on the latter. We have produced cankers on chestnuts with cultures obtained originally from oak as well as from chestnut. We have also produced cankers, but much less readily and less conspicuously, on oak sprouts with cultures originally obtained from both oak and chestnut. We have had some differences in results of inoculations, which may be due either to the age of the cultures, season of inoculation, condition of host, original virulence of material used, or to these factors combined. Most of our inoculations with chestnut blight were made with proper checks and with similar inoculations with *Endothia gyrosa*. Our checks have all remained free, and the differences between the true blight inoculations and those of *E. gyrosa* have usually been marked.

The true chestnut blight has been found from New Hampshire to Virginia on several species of chestnut and oak, though rarely on the latter. This variety seems to be the most northern of the forms as indicated by present

known distribution. It has not been recognized as yet outside of the United States.

We have gone into this subject minutely because a foreign origin of the chestnut blight fungus is of vital importance to those who advocate its control by cutting down infected trees and destroying their bark. Recently Smith, in *October Outing*, has gone to the extreme in advocacy of this quarantine method of control by outlining a plan for the expenditure of over four and a half million dollars. If, as advocated by the writer, the fungus is a native species, which, because of weather conditions unfavorable to its hosts, thereby weakening their vitality, has suddenly assumed an unusual and widespread prominence, it may in time go back to its previous inconspicuous parasitism. If, on the other hand, it can be proved to be an imported enemy, there is at least some basis for the fight for control, upon the whole impracticable, originally advocated by Metcalf and now so strongly pushed by those in charge of the work in Pennsylvania.

G. P. CLINTON

CONNECTICUT AGRICULTURAL
EXPERIMENT STATION,
NEW HAVEN, CONN.,
November 22, 1912

THE CONVOCATION WEEK MEETING OF SCIENTIFIC SOCIETIES

THE American Association for the Advancement of Science and the national scientific societies named below will meet at Cleveland, Ohio, during convocation week, beginning on December 30, 1912.

American Association for the Advancement of Science.—President, Professor Edward C. Pickering, Harvard College Observatory; retiring president, Professor Charles E. Bessey, University of Nebraska; permanent secretary, Dr. L. O. Howard, Smithsonian Institution, Washington, D. C.; general secretary, Professor H. E. Summers, State College, Ames, Ia.; secretary of the council, Professor H. W. Springsteen, Western Reserve University, Cleveland, Ohio.

Section A—Mathematics and Astronomy.—Vice-president, Professor E. B. Van Vleck, University of Wisconsin; secretary, Professor George A. Miller, University of Illinois, Urbana, Ill.

Section B—Physics.—Vice-president, Professor Arthur Gordon Webster, Clark University; secretary, Dr. W. J. Humphreys, Mount Weather, Va.

Section C—Chemistry.—Vice-president, Professor W. Lash Miller, University of Toronto; secretary, Professor C. H. Herty, University of North Carolina, Chapel Hill, N. C.

Section D—Mechanical Science and Engineering.—Vice-president, Dr. J. A. Holmes, U. S. Reclamation Service; secretary, G. W. Bissell, Michigan Agricultural College, East Lansing, Mich.

Section E—Geology and Geography.—Vice-president, Professor James E. Todd, University of Kansas; secretary, Professor George F. Kay, University of Iowa.

Section F—Zoology.—Vice-president, Professor William A. Lacy, Northwestern University; secretary, Professor Maurice A. Bigelow, Teachers College, Columbia University, New York City.

Section G—Botany.—Vice-president, Professor D. S. Johnson, The Johns Hopkins University; secretary, Professor Henry C. Cowles, University of Chicago, Chicago, Ill.

Section H—Anthropology and Psychology.—Vice-president, Dr. J. Walter Fewkes, Bureau of American Ethnology; secretary, Professor George Grant MacCurdy, Yale University, New Haven, Conn.

Section I—Social and Economic Science.—Vice-president, John Hays Hammond, New York City; secretary, Seymour C. Loomis, 69 Church St., New Haven, Conn.

Section K—Physiology and Experimental Medicine.—Vice-president, Professor J. J. McCleod, Western Reserve University; secretary, Professor George T. Kemp, 8 West 25th St., Baltimore, Md.

Section L—Education.—Vice-president, Professor J. McKeen Cattell, Columbia University; secretary, Professor C. Riborg Mann, University of Chicago, Chicago, Ill.

The Astronomical and Astrophysical Society of America.—December 30–January 4. President, Professor E. C. Pickering, Harvard College Observatory; secretary, Professor Philip Fox, Dearborn Observatory, Evanston, Ill.

The American Mathematical Society.—December 31–January 2. President, Professor H. B. Fine, Princeton University; secretary, Professor F. N. Cole, 501 West 116th Street, New York City.

The American Federation of Teachers of the Mathematical and the Natural Sciences.—Between

December 30–January 4. President, Professor C. R. Mann, University of Chicago; secretary, Eugene Randolph Smith, The Park School, Baltimore, Md.

The American Physical Society.—President, Professor W. F. Magie, Princeton University; secretary, Professor Ernest Merritt, Cornell University, Ithaca, N. Y.

The American Society of Biological Chemists.—December 30–January 1. President, Professor A. B. Macallum, University of Toronto; secretary, Professor A. N. Richards, University of Pennsylvania, Philadelphia, Pa.

The American Physiological Society.—December 30–January 1. President, Dr. S. J. Meltzer, Rockefeller Institute for Medical Research, New York City; secretary, Professor A. J. Carlson, University of Chicago, Chicago, Ill.

The Society for Pharmacology and Experimental Therapeutics.—December 30–31. President, Professor John J. Abel, The Johns Hopkins University; secretary, Dr. John Auer, Rockefeller Institute for Medical Research, New York City.

The American Society of Naturalists.—January 2. President, Professor E. G. Conklin, Princeton University; secretary, Professor A. L. Treadwell, Vassar College, Poughkeepsie, N. Y.

The American Society of Zoologists.—December 30–January 1. *Eastern Branch:* President, Dr. A. G. Meyer, Tortugas, Fla.; secretary, Professor J. H. Gerould, Dartmouth College. *Central Branch* (in charge of meeting): president, Professor H. B. Ward, University of Nebraska; secretary, Professor W. C. Curtis, University of Missouri, Columbia, Mo.

The Association of American Anatomists.—December 31–January 2. President, Professor Ross G. Harrison, Yale University; secretary, Professor G. Carl Huber, 1330 Hill Street, Ann Arbor, Mich.

The Entomological Society of America.—December 31–January 1. President, Professor Stephen A. Forbes, University of Illinois; secretary, Professor Alexander D. MacGillivray, 603 West Michigan Ave., Urbana, Ill.

The American Association of Economic Entomologists.—January 1–3. President, W. D. Hunter, Dallas, Tex.; secretary, A. F. Burgess, Melrose Highlands, Mass.

The American Microscopical Society.—December 31–January 1. President, Dr. F. D. Heald, Philadelphia; secretary, T. W. Galloway, Millikin University, Decatur, Ill.

The Botanical Society of America.—December 31–January 3. President, Professor L. R. Jones, University of Wisconsin; secretary, Dr. George T. Moore, Botanical Garden, St. Louis, Mo.

Botanists of the Central States.—Between December 30 and January 4. President, Professor T. H. Macbride, University of Iowa; secretary, Professor Henry C. Cowles, University of Chicago, Chicago, Ill.

The American Phytopathological Society.—December 31–January 3. President, Dr. G. P. Clinton, New Haven Agricultural Experiment Station; secretary, Dr. C. L. Shear, Department of Agriculture, Washington, D. C.

The American Nature-Study Society.—December 30–31. President, Professor Benjamin M. Davis, Miami University; secretary, Dr. Elliot R. Downing, University of Chicago, Chicago, Ill.

The Association of Official Seed Analysts.—January 2. President, Dr. E. H. Jenkins, New Haven, Conn.; secretary, E. Brown, U. S. Department of Agriculture, Washington, D. C.

The Society for Horticultural Science.—December 31. President, W. T. Macoun, Ottawa, Canada; secretary, C. P. Close, U. S. Department of Agriculture, Washington, D. C.

American Association of Official Horticultural Inspectors.—January 2–3. President, Dr. T. J. Headley, New Brunswick, N. J.; secretary, T. B. Symons, College Park, Md.

The American Anthropological Association.—December 30–January 3. President, Dr. J. Walter Fewkes, Bureau of Ethnology; secretary, Professor George Grant MacCurdy, Yale University, New Haven, Conn.

The American Folk-Lore Society.—January 1. President, John A. Lomax, University of Texas; secretary, Dr. Charles Peabody, Peabody Museum, Cambridge, Mass.

The American Psychological Association.—December 30–January 1. President, Professor Edward L. Thorndike, Columbia University; secretary, W. Van Dyke Bingham, Dartmouth College, Hanover, N. H.

The Sigma Xi Convention.—January 2. President, Professor Henry T. Eddy, University of Minnesota; secretary, Dr. Dayton C. Miller, Case School of Applied Science, Cleveland, Ohio.

Gamma Alpha Graduate Scientific Fraternity.—December 31. President, Professor William

Crocker, University of Chicago; secretary, Professor H. E. Howe, Randolph-Macon College, Ashland, Va.

NEW HAVEN

The Geological Society of America.—December 28–31. President, Professor H. L. Fairchild, Rochester University; secretary, Dr. Edmund Otis Hovey, American Museum of Natural History, New York City.

The Association of American Geographers.—December 27–30. President, Professor Rollin D. Salisbury, University of Chicago; secretary, Professor Albert Perry Brigham, Hamilton, N. Y.

The Paleontological Society.—December 30–31. President, David White, U. S. Geological Survey; secretary, Dr. R. S. Bassler, U. S. National Museum, Washington, D. C.

BOSTON

The American Economic Association.—December 27–31. President, Professor Frank A. Fetter, Princeton University; secretary, Professor T. N. Carver, Harvard University, Cambridge, Mass.

The American Statistical Association.—December 27–30. President, Professor Walter F. Willcox, Cornell University; secretary, Carroll W. Doten, 491 Boylston Street, Boston, Mass.

The American Sociological Society.—December 27–31. President, Professor Albion W. Small, University of Chicago; secretary, Scott E. W. Bedford, University of Chicago, Chicago, Ill.

The American Association for Labor Legislation.—December 27–28. President, Professor Henry R. Seager, Columbia University; secretary, Dr. John B. Andrews, 131 East 23d St., New York City.

The American Home Economics Association.—December 30–31. President, Miss Isabel Bevier, University of Illinois; secretary, Benjamin R. Andrews, Teachers College, Columbia University, New York City.

NEW YORK CITY

The Society of American Bacteriologists.—December 31–January 2. President, Dr. Wm. H. Park, New York City; secretary, Charles E. Marshall, Amherst, Mass.

The American Philosophical Association.—December 26–28. President, Professor Frank Thilly, Cornell University; secretary, Professor Edward G. Spaulding, Princeton University, Princeton, N. J.