

PLANT TAXONOMY

Chairman: JOSEPH HENNEN, Indiana State College
ROBERT PETTY, Wabash College, was elected chairman for 1964

ABSTRACTS

Asiatic Species of Pileolaria (Basidiomycetes, Uredinales). JOE F. HENNEN, Indiana State College and Purdue University.—This is a second report on work done toward a proposed taxonomic monograph of the rust genus *Pileolaria* for the world. North American species were summarized at the 1962 Indiana Academy of Science meetings. This work is based primarily on literature survey and microscopic study of herbarium specimens from all available pertinent sources.

According to the authors interpretation, there are seven known species of *Pileolaria* in Asia. One of these is apparently a previously undescribed species. They are all parasites on members of the *Anacardiaceae*. They are: 1. *Pileolaria klugkistiana* (Dietel) Dietel on *Rhus javanica* L. (includes *R. chinensis* Miller and *R. semialata* Murry) from mainland China, Formosa, Japan and Korea, *R. potaninii* Maxim. from China, *R. punjabensis* var. *nucipersica* (L.) Schneid. from China, *R. hypoleuca* from China and *Rhus* sp. from India (Himalayan Mts.); 2. *P. shiraiana* Ito on *Rhus delvayi* from China and Japan, *R. sylvestris* Sieb. and Zucc. from China and Japan, *R. verniciflua* Stokes from China, *R. succedanea* L. from China and Ryukus Is., *R. trichocarpa* Miq. from Japan and N. Korea and *R. (Toxicodendron) radicans* L. from Japan; 3. *P. brevipes* Berk. and Rav. on *Rhus ambigua* Lavallee (*R. (Toxicodendron) radicans* L.?) from Japan and Formosa; 4. an apparently undescribed short-cycled form of *Pileolaria brevipes* on *Rhus radicans* from Japan; 5. *P. terebinthi* (D.C.) Cast. on *Pistacia chinensis* Bge. and *Pistacia weinmanifolia* from China; 6. *P. Pistacia* Tai and Wei on *Pistacia chinensis* Bge. from China, Formosa, and the Philippine I.; 7. *P. Cotini-coggygriae* Tai and Cheo on *Cotinus coggygrina* Scop. from China.

Miocene Charophytes from Ixtapa, Chiapas, Mexico. FAY KENOYER DAILY, JEAN H. LANGENHEIM and J. WYATT DURHAM, Butler University, Harvard University and University of California.—Some washed oogonia of fossil charophytes were received for study by the senior author in the fall of 1961. These specimens are part of the plant and animal fossils from Chiapas, Mexico, undergoing an intensive study coordinated by Durham. He has supplied the geological data and Jean H. Langenheim isolated the fossil charophytes and added paleobotanical information.

The charophytes were collected from detrital amber-bearing beds in a tuffaceous sequence exposed along the Rio de Salina. Much of the bedding suggests lacustrine deposition which is locally substantiated by

the occurrence of fresh-water gastropods. This sequence appears to mark the inception of extensive vulcanism in this area and to be late Miocene in age.

Four slides showing representative charophytes isolated from the formation were shown. They are photographs of the lime-shells, whole and in thin section, as well as isolated structures. Three genera are represented with one new species and a new subspecies. Several specimens considered to be abnormal were included. Descriptions and illustrations will be published.