

Department of Botany & Plant Pathology Graduate Student Association

Graduate Students Association (GSA) provides a handbook for incoming graduate students, offers an orientation program for the department's new graduate students, and sponsors social and professional activities throughout the year. This includes fundraising with sales of department t-shirts, coffee mugs, beverage glasses, and tote bags. With these funds the GSA is able to award travel support to graduate students attending professional meetings and conferences. Recently the GSA established a social hour with refreshments prior to the department seminar series on Thursday afternoons to encourage student/faculty interactions.

Officers for 2015-2016

President: Hannah Rivedal

Vice President: Zolton Bair

Treasurer: Kristen Finch

PR: Madison Olson

Webmaster: Matt Geniza

The **Department of Botany and Plant Pathology** is part of the College of Agricultural Sciences, one of the thirteen Colleges at Oregon State University that enrolls nearly 20,000 students. The department has responsibility for providing the citizens of Oregon with educational, research and service programs in the various fields of botany and plant pathology.

Instructional programs lead to a B.S. in Botany, and to M.A., M.S. and Ph.D. degrees in Botany and Plant Pathology. The faculty plays a major role in the teaching and advising of students enrolled in several interdisciplinary programs. Interdisciplinary programs at the graduate level include the Molecular and Cellular Biology Program, the Environmental Sciences Program, the Genetics Program, and the Entomology option in the Crop Science or Horticulture graduate program. Departmental courses serve the requirements of a large number of undergraduate and graduate students enrolled in different Colleges, including non-science majors.

Research focuses address:

- fundamental problems in plant biology at the molecular, cellular, organismal, population, community, and larger levels of biological organization
- basic and applied problems directly related to plant biology in the natural ecosystems of the Pacific Northwest
- fundamental problems related to plant disease processes and the mechanisms of host-pathogen interactions
- identification and control of plant diseases directly affecting agriculture and forestry in the State of Oregon.

Public Service responsibilities include providing the State of Oregon with extended education in plant pathology. Faculty, both on and off-campus, have dedicated extension responsibilities; the OSU Plant Clinic provides plant disease diagnosis; the OSU Herbarium houses the largest vascular plant, bryophyte, algal, and fungal collection in Oregon and provides related extension services including plant identification for the state.

Department of Botany and Plant Pathology

Scholarships and Awards for Graduate Students



The **Department of Botany and Plant Pathology** is fortunate in the support it receives from alumni and friends. Through the OSU Foundation, we have established named funds and endowments in honor, or, in memory, of friends, alumni, and faculty. The growth of these funds enables us to enhance support for our students and programs.

Our students have also been fortunate to regularly receive support from other organizations, including the Portland Garden Club.

The following funds provide support for graduate students:

Leslie and Vera Gottlieb Research Fund in Plant Evolutionary Biology

Dr. Leslie David Gottlieb's career began at Oregon State University where he earned a Master's degree (1965) in botany and plant pathology on the hybridization between species of manzanita in southwestern Oregon. He completed a PhD at the University of Michigan in 1969, and then joined the faculty of the Department of Genetics (Section of Evolution and Ecology) at the University of California, Davis where he taught classes in genetics and evolutionary biology, and served as department chair for three years during the mid-1980s. His wife, Vera, was granted the Ph.D in Botany from the University of California (Davis). She and Leslie have collaborated on many research projects and have published numerous papers together.

The research fund was established in 2006 to provide funds to graduate students to support both laboratory and field research in the evolutionary biology of plants native to western North America: including evolutionary and population genetics, systematics and phylogenetic studies, comparative analyses of development, and physiological and biochemical studies of plant adaptations.

Application date: October

Hardman Award for Native Plant Research

The Hardman Foundation Inc. is a private foundation that maintained a small grant program in key universities of the west coast for aspects of native plant conservation. In 1994, the foundation made an endowment to Oregon State University to support graduate student research concerning the native plants of Oregon.

The purpose of the endowment is to support "careful botanical research for the sake of preservation and expansion of native plants and vegetation."

The guidelines are as follows: "research projects in systematic botany that contribute to understanding of evolutionary development or regional native plant variation within species or species complexes" and "studies of flowering plants considered choice or rare, or that are depleted in range and need study, or require propagation for enrichment of the native range and for use in botanical gardens or other suitable preserves" will be

favored. "In addition, botanical investigations of paleological, geographical, climatological, edaphic and biotic factors as the environmental requirements of specific variant adaptations that can be identified are most suitable subjects of conservation research."

Application date: January

Moldenke Fund for Plant Systematics

Dr. Harold Moldenke was a distinguished plant systematist. He began his professional career in 1932 at the New York Botanical Garden. In 1933, he founded a botanical journal, *Phytologia*, which he and his wife Alma continued to publish until 1989. After his retirement in 1972, he continued his research and writing in systematic botany for several years. In 1985, he moved to Corvallis. Both Harold and Alma held courtesy positions in the Department of Botany and Plant Pathology.

The endowment supports student travel to herbaria to study preserved plants, and travel to field sites to collect specimens for plant systematics research.

Application date: January

Larry Moore Award for Graduate Education in Plant Pathology

Dr. Larry Moore was a long time faculty member in the Department of Botany and Plant Pathology and was a pioneer in the field of bacterial pathogenesis, and an internationally recognized expert on the epidemiology and control of the plant pathogen, *Agrobacterium tumefaciens*, a bacterium that causes the plant disease known as crown gall.

The endowment was established to support graduate student education in plant pathology.

Application date: April

Portland Garden Club Katherine R. Pamplin Scholarship Fund

The Portland Garden Club annually offers 1-2 scholarships from the Katherine R. Pamplin Scholarship Fund for research projects involving aspects of native plant biology, rare and endangered plant conservation and environmental effects on native plants.

Application date: March

Anita Summers Graduate Student Travel Fund

Established in December, 2002, this fund is made possible by generous contributions from Anita S. Summers and John S. Niederhauser, friends and supporters of our department and who together wished to enhance the educational experience of our graduate students.

The endowment will be used to support travel of graduate students within in the area of Botany and Plant Pathology. It is the wish of the donors that these funds be used by graduate students for attendance at professional meetings where the recipient has a specific responsibility such as presenting a poster or paper, or participating in a discussion as an invited participant.

Application date: Open all year

The Dr. Bonnie C. Templeton Endowment

Dr. Bonnie C. Templeton, a pioneering female botanist who served as curator of botany for the Los Angeles County Museum of Natural history from 1929 to 1970. While working as Curator of Botany at the County Museum of Natural History, Dr. Templeton served as an on-call forensic botanist for the Los Angeles Police Department, as well as being on call for the poison center. After retiring from the museum, she founded the California Botanical Science Service, which she operated for about 20 years.

Dr. Templeton was a generous friend to the Department of Botany and Plant Pathology. In 1989, she established an endowment to provide support for graduate student research in systematics.

Application date: January

Applications

For additional information and application contact:

Gottlieb, Hardman, Moldenke, Portland Garden Club, and Templeton Scholarships

Dr. Aaron Liston
541-737-5301
listona@science.oregonstate.edu

Moore and Summers Scholarships

Dr. Lynda M. Ciuffetti
541-737-5267
ciuffetl@science.oregonstate.edu