

Subject: PABIODIV: Ecology and Natural History Seminars
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Pennsylvania Institute for Conservation Education
(501(c)(3) educational organization)
Space is limited so register early
Contact Information Below

Aquatic Entomology for the Angler and Educator
May 21-22, 2005 (Sat - Sun)
Tiadaghton State Forest
Greg Hoover

During this class, you will learn from a recognized expert how to identify aquatic insects that live in the streams and rivers of Pennsylvania. This course will offer "hands-on" instruction on the use of dichotomous keys to identify specimens of aquatic insects and their relatives. Sampling, collection, and preservation techniques for aquatic insects will also be addressed. Biology, behavior and ecological requirements are presented in an informal, highly enjoyable atmosphere. There will be time provided for anglers to fish some of Pennsylvania's pristine streams. Some schools are including Fly Fishing in their curriculum since it provides an excellent resource and tool for teaching students about stream and watershed ecology. We will share these models and other educational tools. Tuition: \$335; includes meals, shared accommodations, instruction and a minimum of 12 ACT 48 hours. DEADLINE EXTENDED: APRIL 29.

Birding Basics: Birds and Their Habitats
June 27-28, 2005 (Mon - Tue)
Raystown Field Station
Chuck Yohn, Ph.D.

Birding has become one of the most exciting adventures that nature has to offer in the woods, fields, and riverine habitats. Dr. Chuck Yohn will lead beginning birders in becoming familiar with flight patterns, feeding habits and plumages of Pennsylvania birds. After informative classroom sessions on the basics of birding and natural history of birds, you'll spend time out-of-doors identifying birds by field marks, songs, behaviors and habitats. Educators in attendance will take back to the classroom activities for their students as well as fellow teachers. Tuition: \$250; includes meals, shared overnight accommodations, instruction and a minimum of 12 hours ACT 48 hours. DEADLINE: MAY 23.

Advanced Birding: Identifying Birds in the Field
June 29-30, 2005 (Wed - Thu)
Raystown Field Station
Chuck Yohn, Ph.D.

Following immediately, Birding Basics will be a two-day session for those interested in advancing their birding skills. In this program, the focus will concentrate on more in-depth field identification of birds especially by song. In addition, you'll learn about bird censusing techniques, bird conservation and statewide programs for birders of all levels. Visits to special habitats will be explored for marsh and water birds and cavity nesting species. Again, this advanced program will use a combination of classroom and a wide variety of field experiences. Tuition: \$250; includes meals, shared overnight accommodations, instruction and a minimum of 12 hours ACT 48 hours. DEADLINE: MAY 23.

Working The Water - A Fly Angler's World
July 9-10, 2005 (Sat - Sun)

Slate Run and Tiadaghton Forest
Lee Schisler with Jim Brett and Greg Hoover

Pennsylvania has some of the most well known trout waters in the world. Three naturalist/flyanglers will combine forces to teach this 2-day workshop on some of the more pristine streams of the Commonwealth. Working The Water will feature the basics of fly fishing from the systems which support the species, the emergent insect hatches that entice trout to the surface of the water and the tools fly anglers use to land the trout. Lee Schisler, President of Hawk Mountain Sanctuary, teaches the tools and methods of fly fishing. Greg Hoover, on the faculty of entomology at Penn State University, will introduce the wonderful world of aquatic insects. Jim Brett, renowned naturalist, will discuss the aquatic ecosystems that support brook, brown and rainbow trout. Interspersed throughout this weekend will be the general natural history along the stream systems including spring wildflowers, warblers and other birds of the eastern forest. This course is destined to be popular so apply early. Tuition: \$335; includes meals, shared accommodations, instruction and a minimum of 12 hours ACT 48 hours. DEADLINE: JUNE 3.

Plants of the Underworld I - Mushrooms and Their Allies
August 20-21 (Sat - Sun)
Lacawac Sanctuary
Jim Brett

Jim Brett will present this program which will feature identification of easily recognized forest mushrooms at the time of year when they are most prolific. Learning how to discern between edible and non-edible species will be featured during the first day's activities followed by a cooking class utilizing mushrooms collected during the day or dried earlier. The second day will concentrate on a wider scope of collection and identification along with activities suitable for the classroom. An overarching theme of this course, as in all others, will be the interweaving of the general natural history of eastern woodlands, so by the end of the two days there will be much more attained than mushroom ecology. Tuition: \$275; includes meals, shared accommodations, instruction and a minimum of 12 hours ACT 48 hours. DEADLINE: JULY 15.

Plants of the Underworld II - Ferns and Mosses
September 19-20, 2005 (Mon - Tue)
Fishing Creek Angler Bed & Breakfast near Benton, PA
Susan Munch, Ph.D.

The forests of Pennsylvania provide ideal habitat for luxuriant growth of ferns and mosses as well as other nonflowering plants. Investigate the lives, habitats and uniqueness of these fascinating plants as we explore old forests, wetlands and Appalachian landscapes. Learn to identify major common genera and species from an experienced botanist. For our field studies, we will explore some of the most beautiful and alluring state natural areas where nonflowering plants thrive. Tuition: \$225; includes meals, shared accommodations, and minimum of 12 hours of ACT 48. DEADLINE: AUGUST 15.

Swamp & Wetland Ecology
October 1-2, 2005 (Sat - Sun)
Pymatuning State Park
Jim Bissell

Swamps and wetlands are miraculous natural areas in that they serve as the breeding and birthing grounds for a myriad of insects, bivalves, fishes and amphibians thus providing the critical food chain linkage to higher organisms. Pymatuning State Park will serve as the 'classroom' for this Institute program and Jim Bissell, Curator of Botany for Cleveland Natural History Museum, and an expert wetland's biologist, will be the instructor. Pymatuning swamps and wetlands as well as bogs were produced by melting glaciers and are, perhaps, the most fragile of Pennsylvania's natural areas. Learn how to identify glacial relic plants typically more common in Canada. Discover how pure limestone-

enhanced springs percolate through beds of sand and gravel outwash giving rise to the Pymatuning Fens and their high alkaline environment while vegetation in bogs and wetlands thrives in the more acidic environment. Knowledge of this natural system provides the necessary tools to become an advocate and educator of wetlands. Tuition: \$335; includes meals, shared accommodations, instruction and a minimum of 12 ACT hours. DEADLINE: AUGUST 26.

For more information or a 2005 program catalog contact:

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<http://services.juniata.edu/station/pice.html> (a pdf copy of our catalog is located at this weblink)

The Pennsylvania Biodiversity Listserve is intended to promote discussion of biodiversity issues in the state. It is moderated by the Pennsylvania Biodiversity Partnership (PBP) following guidelines posted at <http://www.pabiodiversity.org/listserve.html>. The opinions expressed in messages are those of the authors and NOT the PBP. To unsubscribe, send the message UNSUBSCRIBE PABIODIV to majordomo@webmail.upb.pitt.edu.
