

Instructors

Dr. James D. Gregory, CPSS, PWS is Professor in the Department of Forestry & Environmental Resources at NC State University and Principal of Watershed Hydrology Consultants LLC. He has 33 years experience in teaching and research in watershed and wetlands hydrology and has conducted research on all wetlands types in North Carolina except salt marshes. Dr. Gregory has taught wetland delineation multiple times each year for 10 years, both graduate courses and professional workshops. He is a recognized expert on Clean Water Act, Section 404 and the federal and state regulations related to Section 404. Dr. Gregory has served several consultancies as an expert witness on wetlands cases, and is a frequent invited speaker on Section 404 at workshops and conferences.

Dr. Jon Stucky has been on the faculty of the North Carolina State University (NCSU) Department of Plant Biology (Dept. of Botany) for 34 years. He is a member of the NCSU Academy of Outstanding Teachers and has received the Outstanding Research Award from the Association of Southeastern Biologists. In addition to having taught NCSU field botany classes for over 30 years, Dr. Stucky has taught environmental professionals in wetland plant identification and wetland delineation workshops for 15 years. He is a member of several professional organizations including the Society of Wetland Scientists, Association of Southeastern Biologists, Southern Appalachian Botanical Society, and others.

Location & Lodging

Lodging is not included in the registration fee and attendees must make their own lodging arrangements. Ramada Blue Ridge Hotel at 1520 Blue Ridge Road, Raleigh, NC 27607. Call 800-441-4709 before July 10 to get the for the special \$75+tax rate are available for the nights of July 19, 20 and 21. For New Bern lodging on July 22 and 23, call the Hampton Inn, 200 Hotel Drive, New Bern, NC 28562 at 252-637-2111.

- Classroom lectures on July 20 and 21 will be at the in Raleigh, NC Field exercises on July 22 will be in the central Piedmont region in the vicinity of Raleigh. Van transportation between hotel and field sites is provided.
- Classroom lectures on July 23 and 24 will be at the Hampton Inn New Bern. Field exercises on May 22 will be in the lower Coastal Plain area of North Carolina in the vicinity of New Bern. Van transportation between hotel and field sites is provided.

Topical / Daily Agenda

(full details at www.ncsu.edu/feop/wetlands/index.html)

Monday, July 20: Introduction and soils orientation

- Scope and history of wetlands delineation in the U.S.
- The hydrology factor in wetlands delineation.
- The soils factor in wetlands delineation.

Tuesday, July 21: Hydric soils continued.

- The vegetation factor in wetlands delineation.
- Field methods for wetlands determination and delineation.
- Jurisdictional determinations.

Wednesday, July 22: Full day of Field Instruction

- Instruction and practice in applying wetland determination and delineation methods in Piedmont and Upper Coastal Plain wetlands – Wake and Johnston Counties. (Evening – travel to New Bern.)

Thursday, July 23: Combination Lecture and Field Instruction

- Instruction and practice in applying wetland determination and delineation methods in Lower Coastal Plain wetlands – Craven and Carteret Counties.

Friday, July 24: Morning Exam and Lecture

- Laws and regulations:
- Types of wetland permits, permit application procedures, overview of Nationwide Permits.
- Course evaluation and wrap up by 12:00 pm noon.

Registration and Fees

The registration deadline is July 10, 2009. The registration fee is \$795 and includes course instruction and materials, all lunches, morning and afternoon refreshment breaks, field trip transportation, shuttle van service between Raleigh, NC and New Bern, NC and training certificate. Class size is limited, so early registration is encouraged. Cancellations received or before July 10, 2009 will receive a full refund. Later cancellations will receive a refund less a \$75 service charge. Sorry, but it is not possible to obtain a refund after July 10. We suggest that you find a substitute participant in this situation.

Registration Form

Wetlands Delineation and Jurisdictional Determination

Registration Deadline: July 10, 2009

On-line using Mastercard or Visa: www.ncsu-feop.org

Name _____

Organization _____

Address _____

City _____ State _____ Zip _____

Daytime Phone _____

Fax _____

E-Mail _____

Types of Continuing Education Credits you collect: _____

Vegetarian lunch preferred? m Yes m No

----- Registration Fee -----

\$795.00

_____ Check payable to NC State University.

_____ Credit Card (MasterCard or Visa ONLY)

Card #: _____ - _____ - _____ - _____

Expiration Date: _____

Name of Cardholder: _____

Card's billing address if different from above : _____

**NC State University
Forestry and Environmental Outreach Program
Campus Box 8008
Raleigh, NC 27695-8008
Phone: 919-515-9563
Fax: 919-515-6883**

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***Wetlands Delineation and
Jurisdictional Determination:
1987 Manual & Atlantic and Gulf
Coastal Supplement***



July 20-24, 2009

**Ramada Blue Ridge, Raleigh, NC
and Hampton Inn, New Bern, NC**

Sponsored by
Forestry and Environmental Outreach Program
Department of Forestry and Environmental Resources,
North Carolina State University

This course: provides 24 contact hours of classroom instruction, 16 hours of field instruction, exceeds the training requirement of the State of Virginia Certified Professional Wetland Delineator program, and qualifies for credits from the Society of American Foresters and the NC Board of Engineers and Surveyors.

Course Description

The 10th anniversary edition of the NC State University wetlands delineation course has been extensively revised and updated to reflect the tremendous changes in methods of wetlands delineation and jurisdictional determination that have been introduced by the U.S. Army Corps of Engineers (Corps) during the last year. The course is designed to equip natural resources professionals with the knowledge and field skills needed to:

1. Understand and apply the science of wetland hydrology, hydric soils, and hydrophytic vegetation.
2. Apply current Corps methods to conduct wetland determinations and delineations.
3. Conduct significant nexus assessments and determine and document the location and extent of waters of the United States.
4. Understand and apply key elements of USEPA, Corps, and State of North Carolina wetland regulations.

The waters of the U.S. definition and the impacts of the SWANNC and Rapanos-Carabell Supreme Court decisions on federal jurisdictional determinations and NC wetlands rules will be discussed. In addition to the Corps' standard methods of wetlands determination and delineation described in the Corps of Engineers Wetlands Delineation Manual (1987 Manual), instruction in this course will cover the DRAFT Interim Regional Supplement to the Corps of Engineers Wetlands Delineation Manual: Atlantic and Gulf Coastal Plain Region (Coastal Plain Supplement), scheduled for adoption in late 2008. The 1987 Manual will continue to apply, unchanged, to the Piedmont and Mountains of the Southeast until adoption of the Mid-Atlantic and Southeast regional supplement, scheduled for 2010.

This 4.5-day course provides 40 contact hours: 24 hours of classroom instruction and 16 hours of field instruction. Field trips in both the Piedmont and Coastal Plain regions of the state will visit all wetland types of the state and provide participants the opportunity to see examples of most common wetland plants and all hydrology and hydric soil indicators listed in the 1987 Manual and in the Coastal Plain Supplement that are applicable to the Southeast. Course reference materials provided to all participants include the 300+ page course reference notebook and bound copies of five essential federal publications referenced above. Field trips in both the Piedmont and Coastal Plain regions of the state will visit all wetland types of the state and provide participants the opportunity to see examples of all hydrology and hydric soil indicators listed in the 1987 Manual and in the Coastal Plain Supplement.