

NC STATE UNIVERSITY
College of Natural Resources
Forestry & Environmental Outreach Program
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Delineation of Piedmont and Coastal Plain Jurisdictional Wetlands

*Indoor and field training for
Foresters, Engineers, and Appraisers*



October 9-13, 2006
Raleigh and New Bern, NC

Sponsored by
Forestry & Environmental Outreach Program
NC State University Department of
Forestry and Environmental Resources

For More Information

Visit the FEOP website at www.ncsu.edu/feop, call our office at 919-515-9863, send a fax 919-515-6883 or email forestry_outreach@ncsu.edu

About the Workshop

This workshop is designed to equip natural resource professionals with the knowledge and field skills necessary for delineation of jurisdictional wetlands and application of 404 regulations.

Topics include: (1) systems of wetlands classification, (2) basic science of wetland hydrology, hydric soils, and hydrophytic plants, (3) identification and delineation of jurisdictional wetlands in accordance with U.S. Army Corps of Engineers methods, (4) determination and delineation of jurisdictional wetlands and agricultural wetlands in accordance with Food Security Act methods, and (5) current status of 404 regulations (including state water quality certification) and state wetlands regulations. The course includes extensive field practice in representative wetland types of the Piedmont and Coastal Plain.

For foresters who may attend, a special session is available that addresses status and application of the silviculture exemption and assessing criteria for identification of the forested wetland types in which mechanical site preparation for planting pines requires a 404 permit.

Who Should Attend?

This course will be valuable to environmental and forestry consultants, engineers, landscape architects, appraisers, and regulatory professionals whose work involves jurisdictional wetland determinations and/or implementation of wetland mitigation. Natural resource professionals who simply wish a better understanding of wetland science and wetland regulation will also benefit.

About the Instructors

Drs. James Gregory and Jon Stucky have extensive experience in teaching wetland determination and delineation to NCSU students, consultants, and staff members of NRCS and other state and federal agencies.

Dr. Gregory is Professor of Forestry at NC State University and has over 30 years experience in teaching and research in watershed and wetlands hydrology and forest water management. He has extensive experience in studying the hydrologic characteristics of forested wetlands in the Southeastern Coastal Plain and is knowledgeable in the science of wetlands hydrology and wetlands soils. He is a Certified Professional Soil Scientist and Professional Wetland Scientist.

Dr. Stucky is Associate Professor of Botany at NC State University and specializes in teaching courses on wetland plants. He teaches field botany courses in Systematic Botany, Grasses, Sedges & Rushes, Wetland Flora and Local Flora and also teaches workshops on Wetland Plant Identification. He maintains online resources for identification of common NC wetland plants and his research focus is Rare Plant Species Conservation.

Registration and Fees

The registration deadline is September 29, 2006. The registration fee is \$795 and includes course instruction and materials, all lunches, morning and afternoon refreshment breaks, field trip transportation and training certificate. *Class size is limited, so early registration is encouraged.*

Location and Lodging -PLEASE NOTE

This five-day workshop will be held at two locations in order to maximize the variety of wetland sites visited on the field trips. On **October 9 - 10** the workshop will be held indoors in Raleigh, at the Hampton Inn - RBC Center. A block of rooms is being held for attendees at the Hampton RBC Center, 919-233-1798, under "NC Wetlands Class" until September 24. On **October 11** there is an all day field trip in the Piedmont. On the evening of October 11, the class will travel to New Bern and on **October 12-13**, the workshop will be held in New Bern. Lodging rooms have been blocked at the Hampton Inn-New Bern, 252-637-2111, under "NCSU Wetland Class" and will be held until September 27. Transportation to and from New Bern will be provided. ***Lodging is not included in the registration fee. You must make your own hotel reservations.***

Wetland Training Certification

The wetland identification and delineation portion of this course is structured in accordance with the concepts, definitions, methods, and data provided in:

- * Corps of Engineers Wetlands Delineation Manual 1987, online edition
- * Guidance documents from HQUSACE referenced in the online edition of the Manual
- * USACE Regulatory Guidance Letters and Field Memos relating to wetland delineation
- * Guidance in the USACE Draft Training Package, Wetland Delineator Certification Program, 1993
- * Guidance in the National Food Security Act Manual, 3rd ed., Amended, 1996
- * Supplemental references on hydrophytic plants and hydric soils and information available at the WWW sites referenced in the online edition of the Manual.

Students who successfully complete a written exam offered at the end of the course will receive a certificate of training in wetland delineation from the NCSU Department of Forestry and Environmental Resources.

Accreditation

Foresters: 22.5 Continuing Forestry Education (CFE) credits

Engineers: 25.0 Professional Development Hours (PDH) from the North Carolina Board of Examiners for Engineers and Surveyors

Appraisers: 30.0 hours of CEC from the NC Appraisal Board

Tentative Agenda

Monday, Oct. 9, 2006 - Raleigh - McKimmon Center

Registration: 8:30 a.m.

Introduction/Morning Session: 9:00 am-12:00 pm

- Wetlands: definitions and classification, principles of delineation and assessment
- Hydrology: the science of wetland hydrology and application in wetland delineation; hydrology of NC wetlands

Afternoon Session: 1:00 pm-5:00 pm

- Hydrology (continued)
- Hydric soils: the science of reduced soils and application in wetland delineation; hydric soils of NC

Tuesday, Oct. 10, 2006 - Raleigh - Hampton Inn

Morning Session: 8:00 am-12:00 pm

- Hydric soils (continued)
- Hydrophytic vegetation: the science of wetland plants and plant communities and application in wetland delineation, principal wetland plant communities in NC

Afternoon Session: 1:00 pm-5:00 pm

- Hydrophytic vegetation (continued)
- USACE wetland delineation methodology: office and field procedures
- Wetland delineation methods required by the National Food Security Act Manual
- (Optional) Forested wetlands that require a permit for mechanical site preparation for planting pines: description and criteria for identification and delineation

Wednesday, Oct. 11, 2006- Raleigh - Field Trip

Piedmont field trip: 8:00 am-5:00 pm

Travel to New Bern, NC (Transportation provided)

Thursday, Oct. 12, 2006- New Bern - Field Trip

Coastal Plain field trip: 8:00 am-5:00 pm

Friday, Oct. 13, 2006-New Bern Fire Department Classroom

Morning Session: 8:00 am-12:00 pm

- Regulation of dredge and fill in wetlands: Overview of 404 and 401 regulatory programs and State regulatory programs
- Summary, Questions & Answers, Exam

Depart for Raleigh, NC (Transportation provided)

Cancellation Policy

Cancellations made before Sept. 29, 2006 will receive a full refund less a \$50.00 service charge. Refunds cannot be given for cancellations after Sept. 29, 2006 - in this case it is recommended you send a substitute.

Registration Form

Delineation of Piedmont and Coastal Plain

Jurisdictional Wetlands

Registration Deadline is September 29.

Name _____
Organization _____
Address _____
City _____ State _____ Zip _____
Daytime Phone _____
Fax _____
E-Mail _____
Vegetarian Meal Required? <input type="checkbox"/> Yes
Riding in the provided van to New Bern? <input type="checkbox"/> Yes

Method of Payment

Registration Fee: \$795

_____ Check (*make payable to NC State University*)

_____ Credit Card (*MasterCard or Visa ONLY*)

Card #: _____ - _____ - _____ - _____

Expiration Date: _____

Name of Cardholder: _____

Address of Cardholder: _____

I agree to allow NC State University to charge this credit card for the workshop registration.

Cardholder Signature: _____

Send payment to FEOP, NC State University, Campus Box 8003, Raleigh, NC 27695; or FAX: 919-515-6883

FOR OFFICE USE		
date rec'd _____	amt. _____	ck#: _____
V/MC chgd _____	conf. sent _____	dep. date _____