

NC STATE UNIVERSITY  
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## Delineation of Piedmont and Coastal Plain Jurisdictional Wetlands

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



**May 15-19, 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](http://www.ncsu.edu/feop) or contact  
Susan Moore at 919-515-3184, fax 919-515-6883 or  
[susan\\_moore@ncsu.edu](mailto:susan_moore@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 May 5, 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

This five-day workshop will be held at two locations in order to maximize the variety of wetland sites visited on the field trips. **From May 15-17**, the workshop will be held at the Hampton Inn - RBC Center in Raleigh, 919-233-1798. A block of rooms is being held for attendees under "Wetlands Class" until May 5. **From May 18-19**, the workshop will be held at the Hampton Inn in New Bern, 252-637-2111 - a block of rooms is being held under "Wetlands Workshop: group code=WET" until May 10. 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:** Continuing Forestry Education (CFE) credits have been requested from the Society of American Foresters - credits will be posted online at [www.ncsu.edu/feop](http://www.ncsu.edu/feop) once approved.

**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

## AGENDA

### Monday May 15, 2006

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 May 16, 2006

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 May 17, 2006

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

Travel to New Bern, NC (Transportation provided)

### Thursday May 18, 2006

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

### Friday May 19, 2006

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 May 5, 2006 will receive a full refund less a \$50.00 service charge. Refunds cannot be given for cancellations after May 5, 2006 - in this case it is recommended you send a substitute.

## Registration Form

*Delineation of Piedmont and Coastal Plain*

*Jurisdictional Wetlands*

**Registration Deadline is May 5.**

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**

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