

NC STATE UNIVERSITY
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Forestry Educational Outreach Program
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Delineation of Piedmont and Coastal Plain Jurisdictional Wetlands

*Indoor and field training for Foresters,
Engineers and Landscape Architects*



May 21 - 25, 2001
Brownstone Hotel & Conference
Center, Raleigh, NC
Craven County Extension Facility
New Bern, NC

Sponsored by
Forestry Educational Outreach Program
NC State University Department of Forestry

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 and hydric soils, (3) identification and delineation of jurisdictional wetlands in accordance with U.S. Army Corps of Engineers methods, (4) current status of 404 regulations (including state water quality certification) and (5) principles of wetland mitigation. 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. The course includes extensive field practice in representative wetland types of the Piedmont and Coastal Plain.

Who Should Attend?

This course will be valuable to environmental and forestry consultants, engineers, landscape architects, 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

Dr. James D. Gregory is a Professor of Forestry at NC State University and has 25 years experience in teaching and research in watershed and wetlands hydrology and forest water management. Dr. Gregory has extensive experience in studying the hydrologic characteristics of different types 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. Richard R. Braham is an Associate Professor of Forestry at NC State University. Dr. Braham has been a faculty member for more than 20 years and teaches courses in dendrology and natural communities. As a private consultant, Dr. Braham has written over 90 environmental planning documents. He is a NC Registered Forester and a certified Professional Wetland Scientist by the Society of Wetland Scientists.

Dr. Douglas J. Frederick is a Professor of Forestry at NC State University where he teaches and conducts research in forestry and wetland restoration and has been involved in several university-sponsored wetland mitigation projects in the Piedmont and Coastal Plain of North Carolina and private mitigation banking projects in North Carolina, New Jersey, Virginia, Delaware, Tennessee and Washington state.

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 21-23**, the workshop will be held at the Brownstone Hotel in Raleigh, NC. A block of rooms has been reserved under "Wetlands Workshop" for attendees. For reservations at the Brownstone call 919-828-0811. **From May 24-25**, the workshop will be held at the Craven County Extension Facility in New Bern, NC. A block of rooms has been reserved at the Hampton Inn, New Bern under "Wetlands Workshop". To make reservations at the Hampton Inn, call 252-637-2111. Transportation to and from New Bern will be provided.

Accreditation

This workshop will offer:

Foresters: 24 Category 1 Continuing Forestry Education (CFE) credits authorized by the Society of American Foresters

Engineers: 26.5 Professional Development Hours (PDH) provided by the North Carolina Board of Examiners for Engineers and Surveyors

Landscape Architects: 10 hours of Continuing Education Credit provided by the North Carolina Board of Landscape Architects

Registration and Fees

Registration is required before May 14, 2001. The registration fee is \$775 and includes course instruction and materials, all lunches, morning and afternoon refreshment breaks and field trip transportation.

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
- * 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.

Cancellation Policy

If cancellations are made before the registration deadline of May 14, 2001, the registrant will receive a full refund less a \$35.00 service charge. Refunds will not be given for cancellations after May 14, 2001 - in this case it is recommended you send a substitute.

Delineation of Piedmont and Coastal Plain Jurisdictional Wetlands

Monday May 21, 2001

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 22, 2001

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

- (Optional) Forested wetlands that require a permit for mechanical site preparation for planting pines: description and criteria for identification and delineation

Wednesday May 23, 2001

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

- Travel to New Bern, NC (Transportation provided)

Thursday May 24, 2001

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

Friday May 25, 2001

Morning Session: 8:00 am-12:15 pm

- Principles of wetland mitigation

- Regulation of dredge and fill in wetlands: Overview of 404 and 401 regulatory programs

Afternoon Session: 1:15 pm-2:00 pm

- Summary, Questions & Answers, Exam

- Travel to Raleigh, NC (Transportation provided)

Questions?

contact Susan Moore at 919-515-3184, fax 919-515-6883 or susan_moore@ncsu.edu

Registration Form

Delineation of Piedmont and Coastal Plain Jurisdictional Wetlands

Registration Deadline is May 14, 2001

Name _____

Organization _____

Address _____

City _____ State _____ Zip _____

Daytime Phone _____

Fax _____

E-Mail _____

Special accommodations required _____

Method of Payment

Registration Fee is \$775

Check _____ make payable to NC State University

Credit Card: _____ MasterCard _____ Visa **ONLY**

Card #: _____ - _____ - _____ - _____

Expiration Date: _____

Billing address for card: _____

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

Signature of Cardholder: _____

Send payment to Forestry Educational Outreach Program, NC State University, Campus Box 8003, Raleigh, NC 27695