

## 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 in a NCSU graduate course and in the FEOP workshop. 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 North Carolina State University (NCSU) faculty of the 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 the Society of Wetland Scientists, Association of Southeastern Biologists, Southern Appalachian Botanical Society, North American College Teachers of Agriculture, and others.

**Dr. Thomas P. Colson** a North Carolina Certified Floodplain Manager and Certified Geographic Information Systems Professional has been walking across North Carolina for the past 5 years looking for the perfect stream. Along the way, Dr. Colson has acquired a vast wealth of knowledge about North Carolina aquatic landscapes as well as a source of income by advising numerous clients on how to avoid and minimize impacts to waters of the United States. Dr. Colson currently teaches (part-time) a regular semester graduate course in wetland assessment, delineation, and regulation (NR 521) at NCSU and is a Water Resources and GIS project manager with FROEHLING & ROBERTSON, INC in Raleigh, NC.

## Topical / Daily Agenda

### Day 1 – 8 hours of classroom instruction

Historical overview and wetlands definitions and classification Waters of the United States; SWANNC and Rapanos-Carabell Supreme Court decisions; and state wetlands regulations. 1987 Manual and the Coastal Plain Supplement.  
Hydrology – principles of wetland hydrology, the hydrology of wetland types in North Carolina, the hydrology factor in wetland delineation: definition, criteria, and indicators in the 1987 Manual and the Coastal Plain Supplement.  
Hydric soils – biology and chemistry of hydric soils, soil taxonomy applied to hydric soils, use of soil surveys, the hydric soils of North Carolina, the hydric soil factor in wetland delineation: definition, criteria, and indicators in the 1987 Manual.

### Day 2 – 8 hours of classroom instruction

Hydric soils continued.  
Hydrophytic vegetation – ecological principles of hydrophytic vegetation and wetland plant communities, principal wetland plant communities of North Carolina, the hydrophytic plant factor in wetland delineation.  
Wetland determination and delineation on agricultural lands  
Field methods for wetland determination and delineation

### Day 3 – 8 hours of field instruction

Instruction and practice applying wetland determination and delineation Piedmont region  
Evening – travel to New Bern, NC

### Day 4 – 8 hours of field instruction

Instruction and practice applying wetland determination and delineation methods in Lower Coastal Plain region  
Evening – 2 hours of classroom instruction, exam review.

### Day 5 – 8 hours of classroom instruction

Course Examination  
Overview of Section 404 of the Clean Water Act; Permits and permit procedures; North Carolina regulations; GIS applications; Jurisdictional Determinations

## Registration Form

### *Wetlands Delineation and Jurisdictional Determination*

**Registration Deadline: May 12, 2008**

On-line using Mastercard or Visa: [www.ncsu-feop.org](http://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?  Yes  No

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

**\$845.00**

\_\_\_\_\_ Check payable to NC State University.

\_\_\_\_\_ Credit Card (*MasterCard or Visa ONLY*)

Card #: \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

Expiration Date: \_\_\_\_\_

Name of Cardholder: \_\_\_\_\_

Verification code on back of card: \_\_\_\_\_

**NC State University  
Forestry and Environmental Outreach Program**

**Campus Box 8008  
Raleigh, NC 27695-8008**

**Phone: 919-515-9563**

**Fax: 919-515-6883**

### Registration and Fees

Class size is limited and registration deadline is May 12, 2008. The registration fee is \$845 and includes course instruction and materials, all lunches, morning and afternoon refreshment breaks, field trip transportation and training certificate. Use enclosed registration form, or register online with Mastercard and Visa at [www.ncsu-feop.org](http://www.ncsu-feop.org). \$75 cancellation fee will apply after May 12th.

Nonprofit Org.  
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**NC STATE UNIVERSITY**

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## *Wetlands Delineation and Jurisdictional Determination: Post Rapanos-Carabell*



**May 19-23, 2008**

**Best Western Hotel Cary, 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 42 contact hours and is being review for continuing education credits from the NC Board of Engineers and Surveyors, and Society of American Foresters.

[www.ncsu.edu/feop/wetlands/index.html](http://www.ncsu.edu/feop/wetlands/index.html)

### **Course Description**

The 10th anniversary edition of the NC State University wetland delineation course has been extensively revised to reflect the tremendous changes in methods of wetland delineation and jurisdictional determination that have been introduced by the U.S. Army Corps of Engineers (Corps) since the course was last offered in May, 2007. The course is designed to equip natural resources professionals with the knowledge and field skills needed to:

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

In addition:

- SWANNC and Rapanos-Carabell Supreme Court decisions
- NC wetlands rules
- Corps of Engineers Wetlands Delineation Manual
- DRAFT Interim Regional Supplement to the Corps of Engineers Wetlands Delineation Manual, scheduled for adoption in 2008.
- Field trips in both the Piedmont and Coastal Plain regions
- Focus on the use of GIS resources for desktop assessments

### **Training Certification and Continuing Education Credits**

Participants who successfully complete the written examination offered at the end of the course will receive a certificate of training in wetland delineation and jurisdictional determination from the NCSU Department of Forestry and Environmental Resources. With 26 contact hours of classroom instruction and 16 hours of field instruction, this course more than meets the wetland delineation training course requirement (32 hours) of the State of Virginia Certified Professional Wetland Delineator program ([http://www.dpor.virginia.gov/dporweb/ssc\\_main.cfm](http://www.dpor.virginia.gov/dporweb/ssc_main.cfm)).

Please note that the U.S. Army Corps of Engineers Wetland Delineator Certification Program (WDCP) does not exist (<http://www.usace.army.mil/cw/cecwo/reg/wetcert.htm>). The proposed rule for the WDCP was published in the federal register on March 14, 1995. The WDCP was summarily terminated in early 1997.