

HYDRIC SOILS

**An In-Depth, Two-Part Short
Course for Wetland Professionals**

I. Basic Processes in Hydric Soils

March 25-26, 2008

II. Advanced Problems in Hydric Soil Evaluation

March 27-28, 2008

Holiday Inn Express Savannah I-95 North

Savannah, Georgia

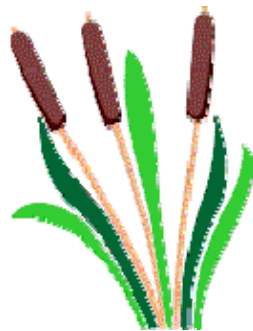
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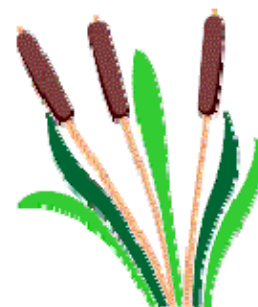
North Carolina State University
Department of Soil Science

Co-sponsored by

Soil Science Society of North Carolina



Register On-line at:
www.ereg.caes.uga.edu
Or call 706-583-0347
Or fax 706-583-0348



www.soil.ncsu.edu/wetlands

About the Course

The Hydric Soils Short Course is designed as a two-part program. Participants will get an in-depth look at basic processes, learn how to solve advanced evaluation problems, and get extensive field experience during four full days of intensive training on state of the art technologies.

Participants are strongly encouraged to attend both workshops, but may choose to attend only one if preferred.

I. Basic Processes in Hydric Soils, March 25-26, 2008

Get a thorough introduction to the concepts of hydric soils and wetlands. Emphasis is placed on normal situations, and topics include soil descriptions, wetland chemistry, redoximorphic features and field indicators, wetland hydrology, and problems with sandy soils. You will learn to use the NRCS hydric soil indicators under field conditions.

II. Advanced Problems in Hydric Soil Evaluation, March 27-28, 2008

Build on what you learned in the first workshop by studying evaluation problems and atypical situations. Topics include USDA-NRCS technical standards for confirming hydric soils, monitoring soil hydrology, interpreting rainfall data, relating hydric soil field indicators to groundwater characteristics, and evaluating sites with altered hydrology.

Both the Basic and Advanced workshops will include classroom discussion, fieldwork, and homework. You will spend half of the total training time in the field gaining practical, hands-on experience in soil description and identification of hydric soil indicators.

WHO SHOULD ATTEND

Who Should Attend

The Hydric Soils Short Course is designed for:

- Biologists
- Soil Scientists
- Environmental Consultants
- Wetland Delineators
- Government Agency Employees
- Foresters
- Wetland scientists
- Others wanting to learn more about hydric soils

What others are saying:

"Excellent program-very well organized and informative."

*Michael DeRuyter
Kjolhaug Environ. Services, Inc.
Shorewood, MN*

"Well presented material by experts in the field of soil science."

*David O'Brien
College of William and Mary
Gloucester Point, VA*

Program Faculty

Dr. Mike Vepraskas is a Professor of soil science at North Carolina State University where he conducts research on hydric soils and teaches a semester long course on wetland soils. Mike has over 25 years experience conducting research on hydric soils at three universities. Mike authored Redoximorphic Features for Identifying Aquic Conditions as an outgrowth of his work for NRCS revising Soil Taxonomy. Mike also helped the NRCS's Field Indicators of Hydric Soils of the United States, and he is a featured lecturer at the NRCS's Advanced Hydric Soils Workshop taught throughout the US. Mike currently works with consultants and government agencies to solve unique hydric soils problems throughout the US, including the development of a technical standard for hydric soil identification for the National Technical Committee for Hydric Soils.

Dr. Dave Lindbo is an Associate Professor and Extension Specialist of nonagricultural soil science in the Soil Science Department, North Carolina State University. David has over 14 years experience conducting research on soil morphology and environmental relationships in several states He has developed many training courses in basic soil science, soil morphology hydric soils, and onsite wastewater issues for extension agents and consultants. His research interests include soil morphology-landscape hydrology-vegetation relationships, onsite wastewater systems, NPS water quality issues related to septic systems, and soil variability. David is a North Carolina Licensed Soil Scientist and an ARCPACS Certified Professional Soil Scientist.

Dr. Larry West is a Professor in the Crop and Soil Sciences Department at the University of Georgia. He has over 20 years experience teaching courses on soil morphology and genesis, soil mineralogy, and site assessment techniques. His research has related soil color patterns to both soil hydrology and landscape position. This work has been conducted throughout the Southern U.S., Africa and Central America.



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Agenda

Basic Processes in Hydric Soils, March 25-26, 2008

Day 1

7:30am Registration
Holiday Inn Express Hotel & Suites
Conference Center

8:00am-12:00pm

Classroom Lectures and Discussion

- Concepts of jurisdictional wetlands, hydric soils, and wetland hydrology
- Soil evaluation for hydric soils: soil color, horizons, texture, and organic C determinations
- Soil chemical reactions in hydric soils
- Hydric soil features: redoximorphic features and field indicators
- Site evaluation procedures

12:00-1:00pm Lunch

1:00-5:30pm

Field Sites

- Identify and describe redoximorphic features
- Identify hydric soil field indicators in loams and clays
- Organic hydric soil features

Day 2

8:00am-12:00pm

Classroom Lectures and Discussion

Wetland hydrology

- Hydric soil field indicators in sands
- Describing problems soils: E horizons, finding the surface, split textures, filled land, flood plains

12:00-1:00pm Lunch

1:00-5:30pm

Field Sites

- Identify hydric soil field indicators in sands
- Identify and describe soil in seeps
- Hydric soils on flood plains

Advanced Problems in Hydric Soil Evaluation, March 27-28, 2008

Day 1

7:30am Registration
Holiday Inn Express Hotel & Suites
Conference Center

8:00am-12:00pm

Classroom Lectures and Discussion

- Definition of hydric soil and wetland hydrology
- Technical standards for hydric soil identification
- Monitoring hydrology
- Using and interpreting rainfall data

12:00-1:00pm Lunch

1:00-5:30pm

Field Sites

- Install monitoring equipment to evaluate hydric soils

Day 2

8:00am-12:00pm

Classroom Lectures

- Relating field indicators to reduction and saturation
- Evaluating hydric soils on sites with altered hydrology

12:00-1:00pm Lunch

1:00-5:30pm

Field Sites

- Effect of drainage on hydric soil morphology
- Hydric soil identification in fill materials
- Use of transects for hydric soil evaluation

Register Early

Class size is limited.

The full registration fee must accompany the registration form in order to reserve a place in the course.

Cancellations will be refunded (minus a \$50 fee) if written notification (fax acceptable) is received 5 days prior to the start date of the workshop.

Notifications made less than 5 days prior to the start date of the workshop will not be refunded.

Professional Development Hours:
7 hours per day

Looking for Directions?

The Hydric Soils Short Course will be held at the:
Holiday Inn Express Savannah I-95 North
7210 Highway 21
Port Wentworth, GA 31407

FROM I-95S: TAKE EXIT 109 (HWY 21), TURN LEFT ONTO HWY 21, TURN LEFT AT STOP LIGHT, HOTEL LOCATED 1/4 MILE ON LEFT.

FROM I-95N: TAKE EXIT 109 (HWY 21) TURN RIGHT ON HWY 21, TURN LEFT AT FIRST STOP LIGHT, HOTEL LOCATED 1/4 MILE ON LEFT.

Registration Information:

Register for the complete, two-part short course, and receive a \$55 discount or register for just one workshop:

- I. Basic Processes: \$575
- II. Advanced Problems: \$575
- I. & II. Basic plus Advanced: \$1095

Register online at: www.areg.caes.uga.edu
Or call: 706-583-0347
Or Fax: 706-583-0348

The registration fee includes lunch, break service, course materials, and a certificate of attendance.
Lodging is NOT included in the registration fee.

Hotel Accommodations. A block of rooms has been reserved at the **Holiday Inn Express Savannah I-95 North**. All rooms include breakfast in the rate: **\$89.00/night plus tax**. Please make your reservation as soon as possible and before **March 10, 2008**.

Group Name: **Hydric Soils Course**. Phone Number: **1-800-Holiday (1-800-465-4329) or 1-912-964-8900**. When calling, identify the hotel as "**PWWGA**" and then use the group/convention code "**HYD**".

Reservations may also be made online at www.hiexpress.com/savannahnorth. If asked for the group name, please use "**Hydric Soils Course**".

Registration form – Hydric Soils

Please indicate your choice below:

- I – Basic Processes in Hydric Soils: \$575
March 25-26, 2008
- II – Advanced Problems in Hydric Soil Evaluation: \$575
March 27-28, 2008
- I & II – Basic Plus Advanced: \$995
March 25-28, 2008

Method of Payment: Please check one

- Check (payable to University of Georgia)
- Charge my Visa MasterCard

Card # _____

Exp. Date _____ Amount _____

Name of cardholder _____

Signature (required) _____

Please provide the following contact information:

Name _____

Job Title _____

Firm/Org. _____

Address _____

City _____ State _____

Zip _____

Email _____

Work Phone _____

Fax _____

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