

WETLAND IDENTIFICATION & DELINEATION

September 14 - 18, 2009

Fairhope, Baldwin Co., Alabama

Registration Deadline: September 4, 2009

Registration Fee: \$1,050.00

WETLAND RESOURCES Environmental Consulting will be presenting a 5-day Wetland Identification & Delineation Training Course **September 14 - 18, 2009**. This comprehensive course provides training in the three-parameter approach (hydrophytic vegetation, hydric soils, and wetland hydrology) to identifying and delineating wetlands, using the *Corps of Engineers 1987 Wetland Delineation Manual* and the *Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region*.

Lecture topics include:

- Introduction to 1987 Delineation Manual
- Hydrophytic Vegetation
- Wetland Hydrology
- Hydric Soils, including NRCS Field Indicators
- Soil Color
- Routine Delineation Methods for Small & Large Areas
- Soil Taxonomy
- Use of Soil Surveys
- Delineation of Disturbed Areas & Problem Areas
- Understanding and using the new Wetland Determination Data Form

Field Exercises each afternoon give students training in local wetlands and field experience applying the routine wetland delineation methods and completing data forms.

Course material includes a copy of the 1987 Corps of Engineers Wetlands Delineation Manual and related information, a copy of the interim regional supplement, the Region 2 Plant List, and a notebook of material presented in the course.

LOCATION AND LODGING

This course will be held on the Eastern Shore of Mobile Bay at the Holiday Inn Express, Fairhope, Alabama. Call the hotel directly for room reservations (251-928-9191). Please mention that you will be attending a course with WETLAND RESOURCES. The room rate is \$97.00 + tax. Contact information on other hotels in the vicinity can be provided upon request.

INSTRUCTORS

James W. Teaford, of J.W. Teaford & Co. is a registered forester, certified wildlife biologist and wetland delineator with over 28 years experience in natural resources management. Formerly with the Corps of Engineers' Waterways Experiment Station, he was involved in the development of the Corps' training materials for the 1987 and 1989 delineation manuals. He specializes in delineations, natural resources management, and delineator training and teaches wetland delineation courses nationwide.

Gena Todia, of WETLAND RESOURCES Environmental Consulting, is a certified wildlife biologist and wetlands specialist with over 24 years experience in natural resources management. Formerly with the Corps of Engineers' Mobile District Regulatory Branch and Natural Resources Management Branch, she has consulted privately for over 16 years, specializing in delineations, mitigation & restoration, permitting, federally listed species issues, invasive species control, and training.

TO REGISTER

Please contact Gena Todia of WETLAND RESOURCES at (251) 928-6157 or jaget@zebra.net for additional information. ***To pre-register and reserve a space in the course***, e-mail your name, affiliation, mailing address, phone number and e-mail address to Gena Todia at jaget@zebra.net.

Registration fee (\$1,050.00) should be mailed to Wetland Resources, P.O. Box 2694, Daphne, AL 36526 by September 4. If you are employed by a governmental agency, other arrangements can be made. Please note that we cannot accept credit cards.

Please Note: *If the required minimum number of participants has not registered by the registration deadline, we reserve the right to cancel a course. All registration fees are fully refundable in the event that a course is cancelled.*

SCHEDULE OF INSTRUCTION
WETLAND IDENTIFICATION AND DELINEATION

<u>Day/Hour</u>	<u>Subject</u>	<u>Instructor</u>
<u>MONDAY</u>		
8:00	Introductions & Orientation	
8:20	Introduction to Wetland Identification & Delineation	Gena Todia
8:50	Hydrology Background	Jim Teaford
9:15	Wetland Hydrology Indicators	Jim Teaford
10:15	Break	
10:30	Vegetation Background	Gena Todia
11:30	Hydrophytic Vegetation Indicators	Gena Todia
12:30	Lunch	
2:00	Field Exercise	
<u>TUESDAY</u>		
8:00	Soils Background	Jim Teaford
9:45	Break	
10:00	NTCHS Field Indicators of Hydric Soils	Gena Todia
12:00	Lunch	
1:30	Field Exercise	
<u>WEDNESDAY</u>		
8:00	On-Site Delineation of Wetland Boundaries	Gena Todia
	- Routine Method for Small Areas	
	- Routine Method for Large Areas	
9:00	Off-Site Methods & Preliminary Data Gathering	Gena Todia
9:45	Break	
10:00	Comprehensive Method	Jim Teaford
12:00	Lunch	
2:00	Field Exercise	

THURSDAY

8:00	Soil Taxonomy	Jim Teaford
9:30	Break	
9:45	Atypical Situations (Disturbed Areas)	Gena Todia
10:15	Problem Areas	Jim Teaford
10:45	Difficult Wetland Situations (Chapter 5)	Jim Teaford
12:00	Lunch	
1:30	Field Exercise	All

FRIDAY

8:00	Question & Answer Period, Review Homework, General Discussion
9:30	Field Practicum
12:00	Lunch
1:30	Written Exam
2:30	Review Exam & Award Certificates

FALL PLANT IDENTIFICATION

October 19 - 22, 2009

Fairhope, Baldwin Co., Alabama

Registration Deadline: **October 5, 2009**

Fee: \$850.00



WETLAND RESOURCES Environmental Consulting will be presenting a fall session of our 4-day Plant Identification Training Course **October 19-22, 2009**. This course is field oriented and emphasizes the dominant plant species found in wetlands, adjacent uplands, and the transition zone between. Participants will visit a variety of habitat types in the area, collect and press plant specimens, learn to use field guides and plant manuals, and create their own plant collection for study purposes and future reference.

Approximately half of each day will be spent covering lecture material with the other half spent in the field seeing, discussing, collecting and pressing plants.



Course material includes a notebook of training material, a magnifier, and copies of:

- **Trees, Shrubs and Woody Vines of Northern Florida and Adjacent Georgia and Alabama** (Robert K. Godfrey)
- **Forest Plants of the Southeast and Their Wildlife Uses** (James H. Miller and Karl V. Miller)
- **Plant Identification Terminology: An Illustrated Glossary** (James G. Harris and Melinda Woolf Harris)



Also included are refreshments and transportation to field sites. Plant presses and collecting tools will be provided for use during the course.



Lecture Topics:

- Field Notebooks & Data Collection
- Collections: Plant Pressing & Label Preparation
- Classification & Taxonomic Hierarchy
- Phytography: Shapes, Apices, Bases & Margins
- Phytography: Roots, Stems, Leaves & Cones
- Phytography: Floral Structure & Fruits
- Key Construction & Keying Plants
- Identification, Manuals & Other Literature
- Introduction to Invasive Exotic Plant Species
- Plant Families



LOCATION - This course will be held on the Eastern Shore of Mobile Bay at the Holiday Inn Express, Fairhope, Alabama. Call the hotel directly for room reservations (251-928-9191). Please mention that you will be attending a course with WETLAND RESOURCES. The room rate is \$97.00 + tax. Contact information for other local hotels can be provided upon request.



INSTRUCTORS

Dan Spaulding, of the Anniston Museum of Natural History, has a BS degree in Botany from the University of Vermont and an MS in Biology from Jacksonville State University where he studied the plant life of Lake Guntersville State Park, Alabama. Dan conducts surveys for rare plants, animals and birds. He has collaborated with Dr. David Whetstone on an atlas of the vascular plants of northeast Alabama and is also involved in the development of the Checklist of the Plants of Alabama, a cooperative project among over 30 Alabama field botanists.

Fred Nation is a self-employed Field Botanist and Environmental Consultant who lives in Daphne. Fred conducts habitat assessments and plant inventories for municipalities, schools, foundations, landscape architects, and homeowners. He also does design, layout, and construction of interpreted nature trails, including identification of plant communities and species, design of interpretive signs and instructional trail brochures, with emphasis on plant ecology and historic uses. Fred frequently gives instructional lectures on ecological and botanical topics and he has authored several publications, including *Where the Wild Illicium Grows; Historic Plants of Alabama and the Central Gulf Coast*.



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SCHEDULE OF INSTRUCTION
PLANT IDENTIFICATION WORKSHOP

DAY 1

8:00	Introductions & Orientation	Gena Todia
8:15	Field Notebooks & Data Collection	Dan Spaulding
9:00	Field Trip (Historic Blakeley State Park)	
12:30	Lunch	
2:00	Collections: Plant Pressing & Label Preparation	Dan
3:00	Classification, Taxonomic Hierarchy & Nomenclature	Fred Nation
4:00	Plant Pressing (your collection)	

DAY 2

8:00	Leaf Arrangement, Shapes, Apices, Bases & Margins	Fred
9:00	Field Trip (Gulf State Park Backcountry Trail -various communities)	
12:30	Lunch	
2:00	Floral & Fruit Structure	Dan
4:00	Plant Pressing	

DAY 3

8:00	Roots, Stems & Cones	Fred
9:00	Field Trip (Graham Creek Nature Preserve - Pine Savanna, etc.)	
12:30	Lunch	
2:00	Key Construction & Keying Plants	Dan
3:00	Identification, Manuals & Other Literature	Dan & Fred
4:00	Plant Pressing	

DAY 4

8:00	Plant Families	Dan
10:00	Introduction to Invasive Exotic Plant Species	Fred
10:45	Field Trip (Atlantic White Cedar Swamp, Sandhill Community)	
12:30	Lunch	
2:00	Plant Pressing, Question & Answer, Wrap-up	
5:00	Adjourn	