

**US Environmental Protection Agency**

# *Evaluating Wetland Condition for Nutrient Criteria: An Outreach Workshop*

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*Holiday Inn - Boardwalk, Atlantic City, New Jersey*

March 25-27, 2003



Sponsored by:

**US EPA, Office of Science and Technology**

**US EPA, Office of Wetlands, Oceans, and Watersheds**

**US EPA, Regions 2 & 3**

**The Wetlands Work Group**

**The Atlantic Estuarine Research Society**

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## *Evaluating Wetland Condition for Nutrient Criteria: An Outreach Workshop*

### **General Information**

The US Environmental Protection Agency (US EPA), Office of Science and Technology, Office of Wetlands, Oceans, and Watersheds, Regions 2 and 3, the Wetlands Work Group, and the Atlantic Estuarine Research Society are proud to host “*Evaluating Wetland Condition for Nutrient Criteria: An Outreach Workshop*.” The Workshop will be held at the Holiday Inn - Boardwalk in Atlantic City, New Jersey. The purpose of this Workshop is to present the Wetland Sampling Methods Modules being released by the US EPA. As always, at the Workshop we strive to increase dialogue and foster partnerships between federal, state, and local regulatory agencies, non-governmental organizations and the regulated community.

The registration fee includes and entitles the registrant to admission to oral presentations, an this booklet, a CD-ROM of the Wetland Modules that have been printed to date, and social events. Formal registration periods will be as follows:

Tuesday 9:00 a.m. - 5:00 p.m.  
Wednesday 8:00 a.m.- 5:00 p.m.  
Thursday 8:00 a.m.-12:00 noon

### **Workshop Activities**

The Workshop will start at 1:30 p.m. Tuesday, and continue to late afternoon. The Workshop will end at different times each day (see page 3 for details). At the end of each day a social event is scheduled to enhance camaraderie in a casual atmosphere at Scribbles in the Holiday Inn. On Wednesday evening, all registrants are invited to attend a no-host mixer and informal banquet from 6:30 p.m. - 11:00 p.m. at the Holiday Inn as an opportunity for informal exchange. The banquet is included in the Workshop registration fee. For those of you who would like to bring a friend or a spouse, additional banquet tickets can be purchased from the Workshop Registration Desk for \$30.00

### **Daily Luncheons**

The Workshop will be holding a luncheon Wednesday and Thursday of the Workshop in the Holiday Inn. This is another opportunity to interact with Workshop participants. If you are a guest at the Holiday Inn, and you registered with the Workshop rate, the cost of the luncheon is included in your room rental for the lunch after your first night's stay. If you are not a guest at the Holiday Inn, or have just arrived, you can purchase a luncheon ticket for \$15.00 from the Workshop Staff at the Workshop Registration Desk.

### **Announcement Board**

A board will be available for attendees to post jobs, fellowships, scholarships, and other related information.

**In case of emergency**, a message can be left for workshop attendees at (609) 348-8821. Depending on the nature of the emergency message, we will either attempt to contact you in the session, or post a message on the message board.

**Your registration package includes a listing of local restaurants and attractions. For more information about attractions of local interest contact The Holiday Inn Staff, our Workshop Staff or:**

*New Jersey Division of Travel and Tourism  
CN 826  
Trenton, NJ 08625  
609-292-2470  
www.state.nj.us*

**For information about Atlantic City call:**

*Visitors Information Hotline:  
1-888-228-4748*

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**If you have any questions regarding the workshop contact:**

Ifeyinwa Davis, US EPA Headquarters (202) 566-1096 or  
 Davis.Ifeyinwa@epamail.epa.gov

John Bachman, GLEC (231) 941-2230 or  
 jbachman@glec-tc.com

Frank Reilly at (540) 286-0072 or  
 Frank@TheReillyGroup.net



The Wetlands Work Group is helping to bring you this Workshop. It is a non-profit professional organization open to those with interests in wetland science and environmental regulatory science, and dedicated to bringing science to the environmental decision-making process. You can learn more about The Wetlands Work Group at our web site:

***WWW.WetlandsWorkGroup.org***

**Workshop Overview**

**Tuesday**

9:00 AM until 5:00 PM Registration  
 1:30 PM until 5:00 PM Presentations  
 5:00 PM until 7:00 PM Mixer

**Wednesday**

9:00 AM until 5:00 PM Registration  
 9:00 AM until 11:30 Presentations  
 11:30 until 1:00 PM Luncheon  
 1:00 PM until 5:00 PM Presentations  
 5:00 PM until 7:00 PM Mixer  
 7:00 PM until 11:00 PM Informal Banquet

**Thursday**

9:00 AM until 3:00 PM Registration  
 9:00 AM until 11:30 Presentations  
 11:30 until 1:00 PM Luncheon  
 1:00 PM until 3:00 PM Presentations

There will be breaks mid-morning and mid-afternoon, when vendor exhibits will be available for viewing and refreshments will be served.



*Learn more about the Atlantic Estuarine Research Society at [www.AERS.info](http://www.AERS.info)*

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# Agenda

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## Tuesday March 25

- 1:00 - 1:15      **Workshop Staff** Welcome and Workshop Announcements  
1:15 – 2:00      **EPA Administrative Staff** Opening Remarks  
2:00 – 2:30      **Amanda Parker, University of Georgia** The State of Wetland Science (Module 3)  
2:30 – 3:00      **Naomi Detenbeck, United States Environmental Protection Agency, Duluth Laboratory** Wetlands Classification (Module 7)  
  
3:00 – 3:30      **Break**  
  
3:30 – 4:00      **R. Jan Stevenson, Michigan State University** An Introduction to Wetlands Biological Assessments (Module 1)  
4:00 - 4:30      **Billy Teals, Wetland Science Institute Patuxent Wildlife Research Center** (Presented by R. Jan Stevenson) Developing Metrics and Indices of Biological Integrity (Module 6)  
4:30 – 5:00      **Amanda Parker, University of Georgia** Study Design for Monitoring Wetlands (Module 4)  
  
5:00 – 7:00      No Host Mixer Scribbles Holiday Inn

## Wednesday March 26

- 9:00 – 9:30      **Amanda Parker, University of Georgia** Introduction to Wetland Nutrient Assessment (Module 2)  
9:30 – 10:00      **Arnold van der Valk, Iowa State University** Land-Use Characterization for Nutrient and Sediment Risk Assessment (Module 17)  
  
10:00 - 10:30      **Break**  
  
10:30 – 11:00      **U. Sunday Tim & Bill Crumpton, Iowa State University** Nutrient Loading Models (Module 19)  
11:00 – 11:30      **R. Jan Stevenson, Michigan State University** Using Algae to Assess Environmental Conditions in Wetlands (Module 11)  
  
11:30 - 1:00      **Luncheon**  
  
1:00 – 1:30      **Jeff Thompson, Maryland Department of the Environment**, Hydrology (Module 21)  
1:30 – 2:00      **Ramesh Reddy, University of Florida** Biogeochemical Indicators (Module 18)  
2:00 – 2:30      **Mark Clark, University of Florida** Database of Biogeochemical Indicators and Data Analyses (Proposed Module 22)  
  
2:30 – 3:00      **Break**

# Agenda

3:00 – 5:00 **Workshop Discussion Sessions**  
 Open, facilitated discussions on each of the following topics will be held sequentially. All workshop participants will be encouraged to participate.

Facilitator: Francis J. Reilly, Jr. Wetlands Work Group

Topic	Technical Lead
Wetland Nutrient Assessment	Amanda Parker, University of Georgia
Hydrology	Jeff Thompson, Maryland Department of the Environment
Nutrient Load Estimation	Bill Crumpton & U. Sunday Tim, Iowa State University
Biogeochemical Indicators, Database and Data Analyses	Mark Clark & Ramesh Reddy, University of Florida

5:00 – 7:00 No Host Mixer Scribbles - Holiday Inn  
 7:00 – 11:00 **Banquet** - Holiday Inn

## Thursday March 27

- 9:00 – 9:30 **Denice Heller Wardrop, Pennsylvania Cooperative Wetlands Center** Using Vegetation to Assess Environmental Conditions in Wetlands (Module 10)
- 9:30 – 10:00 **Chris Craft, Indiana University** Vegetation-Based Indicators of Wetland Nutrient Enrichment (Module 16)
- 10:00 – 10:30 **Break**
- 10:30 - 11:00 **Paul McCormick, USGS** Wetland Bioassessment Case Studies (Module 14)
- 11:00 – 11:30 **Michele L. Tremblay, Nature Resource Communications** Volunteers and Wetland Biomonitoring (Module 8)
- 11:30 – 1:00 **Luncheon**
- 1:00 – 1:30 **Vicki Schwartz, Richard Stockton College** Using Amphibians to Assess Environmental Conditions in Wetlands (Module 12)
- 1:30 – 2:00 **Christopher W. Swarth, Jug Bay Wetlands Sanctuary** Biological Assessment Methods for Birds (Module 13)
- 2:00 – 2:30 **Francis J. Reilly, The Wetlands Work Group / Iffy Davis, US Environmental Protection Agency – Office of Science & Technology** Closing Remarks.

*Wetland Modules that have been released are now available to download at:  
<http://www.epa.gov/waterscience/criteria/wetlands/index.html>*

