

Annual North Carolina Water Resources Research Conference
WATER RESOURCE PROTECTION: Understanding and Management
April 1, 1998
NCSU McKimmon Center Raleigh, North Carolina

The Water Resources Research Institute of The University of North Carolina is sponsoring an annual conference to encourage scientists in North Carolina to share their water-related research findings with colleagues and with elected and appointed officials of local, state, and federal agencies with water-related responsibilities as well as industrial, professional, and environmental organizations and other interested groups.

Co-Sponsors: North Carolina Department of Environment and Natural Resources, North Carolina Cooperative Extension Service, North Carolina Water Resources Association, United States Geological Survey

Preliminary Agenda

8:00- 9:00 am **Registration**

9:00- 9:15 **Welcome/Conference Overview**
Kenneth Reckhow - WRRRI

9:15-10:00 Plenary Session: **Waterborne Pathogens**
 * Pathogens, Fecal Indicators, and Animal Waste - Mark Sobsey - UNC-CH
 * Pfiesteria and Pfiesteria-Like Organisms - JoAnn Burkholder - NCSU

10:00-10:15 **Break**

10:15-12:00 Concurrent Session I

A. Wetlands

1. Needs for Reference Wetlands in North Carolina - Mark Brinson - ECU
2. Wetlands for Highway Runoff - Curtis Richardson - Duke
3. Wastewater Treatment by Constructed Wetlands - Halford House - NCSU
4. Tullula Bog Restoration Project - Kevin Moorhead - UNC-A

B. Water and Wastewater

1. Dual Water Supply Systems - Dan Okun - UNC-CH
2. Trace Element Analysis - Howard Weinberg - UNC-CH
3. Comparison of Bacteria Regrowth in Two Distribution Systems - Francis DiGiano - UNC-CH
4. Strategies for Algae Removal in Drinking Water Treatment - Detlef Knappe - NCSU

12:00- 1:00 pm **Luncheon Address: Interaction Between State Government and University Community**
Secretary Wayne McDevitt, N.C. Department of Environment and Natural Resources

1:00- 3:00 Concurrent Session II

A. Atmospheric Impacts

1. Ammonia Emissions & Fate in Eastern North Carolina - Viney Aneja - NCSU
2. Atmospheric Deposition on Aquatic Systems - Hans Paerl - UNC-CH
3. Atmospheric Transport & Fate and Links to Water Resources - Robin Dennis - EPA/RTP
4. To Be Announced

B. Erosion & Sediment Control and Storm Water

1. Effect of Hydrodynamics on Pollutant Removal in Water Quality Ponds - Robert Borden - NCSU
2. Detention Pond Efficiencies - Robert Hunt - NCSU
3. Sediment Impact on Aquatic Communities - Seth Reice - UNC-CH
4. Piedmont Detention Basins as Sediment Traps - Randall Forsythe - UNC-C

3:00- 3:15 **Break**

3:15- 5:00 Concurrent Session III

A. Water Quality

1. Modeling of the Neuse River Estuary - Robert Christian - ECU
2. Lumped Parameter Water Quality Modeling - Wayne Skaggs - NCSU
3. Water Quality Modeling of the Catawba Chain - Jerad Bales - USGS
4. Turbidity, Suspended Solids, and Water Quality in Coastal Waters - Lawrence Cahoon - UNC-W

B. Groundwater

1. Impact of Pre-1993 Swine Waste Lagoons - Ronald Huffman - NCSU
2. Albemarle-Pamlico Ground Water Studies - Tim Spruill - USGS
3. Pesticide Detection in Ground Water Wells - Richard McLaughlin - NCSU
4. Ground-Water Recharge in the Neuse River Basin - Ted Mew - DWQ

Poster Session:

Apart from the presentations, there is space for up to 30 posters of individual research projects. Time has been extended until February 6, 1998 to provide an abstract of these projects. Posters should be related to the concurrent sessions of wetlands, water & wastewater, atmospheric impacts, erosion & sediment control and storm water, water quality, and ground water. A limited amount of space is available and selection of posters will be based on the number of abstract received on each topic. Abstracts need to be provided as a disk copy or e-mailed to: water_resources@ncsu.edu. Content of abstract should include working title, author(s), affiliation(s), address, telephone, fax, e-mail, purpose and objective, findings and conclusions, and importance to North Carolina.

Registration:

A registration fee of \$30 covers the proceedings, two breaks, and lunch. There is a late fee of \$10 if registration is not received by March 17, 1998. Student registration fee is \$15 and \$5 late fee after the March deadline. Please use the registration form on this page and photocopy if required. Make check payable to "UNC Water Resources Research Institute-1998 Annual Conference." Registrations will be taken on a first-come, first-served basis until seating capacity is reached.

Check for \$30 must be received no later than March 17, 1998 (\$40 after March 17). Student check for \$15 must be received no later than March 17, 1998 (\$20 after March 17).

Return registration form with check to: Water Resources Research Institute, 1998 Annual Conference, Box 7912, North Carolina State University, Raleigh, NC 27695-7912.

If you have questions, call Linda Lambert or Eva Walters at WRRRI (919) 515-2815 or e-mail WRRRI at: water_resources@ncsu.edu.

REGISTRATION FORM

Water Resource Protection: Understanding & Management Conference

Name: _____

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