

NORTH CAROLINA FORUM ON NUTRIENT OVER-ENRICHMENT
AGENDA
Sheraton Imperial Hotel & Convention Center
Durham, NC
May 29 - 30, 2012

Tuesday, May 29

- 7:30 am Registration and Breakfast
- 8:30 am Richard B. Whisnant, JD, UNC Institute of Government Forum, Moderator
Dee Freeman, Secretary, North Carolina Department of Environment and Natural Resources
- 8:50 am **Challenge to the Forum Speakers, Panelists and Audience**
Charles Peterson, Ph. D, Vice Chairman Environmental Management Commission
Distinguished Professor, UNC Institute of Marine Sciences
- 9:00am **EPA's Perspective on Nutrient Management**
Ellen Gilinsky, Ph.D., Senior Policy Advisor, EPA Office of Water (HQ)
- 9:20am **Successful Development/Application of Nutrient Sediment Enrichment Criteria Driving Chesapeake Bay Restoration – 25 Years of Experience**
Rich Batiuk, EPA Chesapeake Bay Program
- 9:40am **Nutrient Management in North Carolina: The Path to Here**
Richard "Rich" Gannon, NC DENR DWQ
- 10:00am **Forum Panel Q&A***
Panelists: Jacqueline A. Jarrell, PE – Environmental Management Div. Superintendent, Charlotte Mecklenburg Utilities
Grady McCallie – NC Conservation Network
Stephen T. Smith – Chairman, Environmental Management Commission
Darryl D. Moss – Mayor, City of Creedmoor, Environmental Management Commission
- 10:30am Break
- 10:45am **Nutrients and Lakes: Conditions and Issues to Consider When Setting Standards**
Ken Wagner, Ph.D., Water Resource Services, Inc.
- 11:05am **A Framework for Developing Regional Nutrient Criteria for Wadeable Streams**
Ryan King, Ph.D., Baylor University
- 11:25am **Controlling Nutrient Over-Enrichment along the Freshwater to Marine Continuum...**
Hans W. Paerl, Ph.D., UNC-Chapel Hill
- 11:45am **Forum Panel Q&A***
- 12:15 pm Lunch with speaker
Satellite and Aircraft Sensors - Mapping and Modeling of Water Quality Parameters and Nutrient Loads Using Remote Sensing
Siamak Khorram, Ph.D. – NCSU & University of California at Berkeley
- 1:45pm **Approaches to Nutrient Criteria Development: Principle Approaches and Case Studies**
Michael Paul, Ph.D., Tetra Tech, Inc. RTP
- 2:05pm **Numeric Nutrient Water Quality Criteria: Reconciling Weight of Evidence with Independent Application**
Robert Miltner, Ph.D., Ohio EPA
- 2:25pm **Maine's Approach to Integrate Causal and Response Indicators of Eutrophication**
Thomas J. Danielson, Ph.D., Maine DEP
- 2:45pm **Forum Panel Q&A***
- 3:15pm Break
- 3:30pm **Florida Numeric Nutrient Criteria: Lessons Learned – Policy and Process**
Scott I. McClelland, CDM Smith Florida
- 4:00pm **Florida Numeric Nutrient Criteria: Lessons Learned - Technical Issues**
Douglas J. Durbin, Ph.D., Cardno Entrix Florida
- 4:30pm **Forum Panel Q&A***
- 5:00pm **Reception – with heavy hors d'oeuvres and cash bar**

* Questions from the audience should be written on the index cards that have been provided and sent to the wall end of the row during the presentations.

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Wednesday, May 30

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| 8:00am | Registration and Continental breakfast |
| 9:00am | Accounting for Agricultural Progress at the Watershed Scale
Deanna Osmond, Ph.D., NCSU |
| 9:20am | Aquifer Hydraulics and the Multi-Decade Legacy of Non-Point Source Pollution
David P. Genereux, Ph.D., WRRRI, NCSU |
| 9:40am | Stormwater Retrofitting in Urban Areas: Getting the Most Bang for Your Buck
Kathy DeBusk, PE, NCSU |
| 10:00am | Forum Panel Q&A* |
| 10:30am | Break |
| 10:45am | Nutrient Regulation for Rivers and Lakes: Getting it Right Post USEPA Science Advisory Board Review
John Hall, J.D., Ph.D., Hall & Associates |
| 11:05am | Drinking Water Sources – Taste & Odor Plus??
Michael E. Richardson, Cape Fear Public Utility Authority |
| 11:25am | Sustainability and Ancillary Environmental Benefits of Nutrient Control Practices
Clifton F. Bell, PE, PG, Brown & Caldwell |
| 11:45am | Forum Panel Q&A* |
| 12:15pm | Lunch with speaker |
| | An Approach to Nutrient Removal Based on Practical Technologies, Their Reliability, and Economics
S. Joh Kang, Ph.D., PE, Tetra Tech Inc. |
| 1:45pm | Assessing Costs and Benefits Related to Implementing Nutrient Criteria to Improve and Maintain Water Quality
Mary Jo Kealy, Ph.D., CH2MHILL Delaware |
| 2:05pm | Who Cares if the Water isn't Fishable, Swimmable or Drinkable? The Consequences of Inaction
Bill Holman, Ph.D., Duke University |
| 2:25pm | Nutrient Control Funding Options for Local Governments
Jeffery Hughes, UNC-Chapel Hill |
| 2:45pm | Forum Panel Q&A* |
| 3:15pm | Panel Summary --Panel Members provide their conclusions and path forward suggestions |
| 3:45pm | Adjourn |

Refreshments will be served at all breaks

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