



NJ Water Monitoring & Assessment Technical Workshop

Rutgers EcoComplex, Columbus, NJ

April 20, 2006

Theme: Integrated Monitoring to Enhance Water Resource Management

FINAL AGENDA

- 8:30-9:00am** **Registration & Posters**
- 9:00-11:10am** **Plenary Session & Keynote**
9:00-9:05 AM **Welcoming Remarks** - Rick Kropp (USGS/NJ Water Science Center)
9:05-9:45 AM **Water Monitoring in the Age of Information** (Keynote)
- Tracy Mehan (The Cadmus Group, former EPA Office of Water Assistant Administrator)
- 9:45-10:05 AM **Monitoring: Use & Coordination in NJ Water Resource Management** – Leslie McGeorge (NJDEP/Water Monitoring & Standards)
- 10:05-11:10 AM **Panel: Water Monitoring in NJ – Current & Future Directions**
Moderator: Robert Tudor (Delaware River Basin Commission)
Speakers: David Stedfast (USGS/NJ Water Science Center), Karl Muessig (NJDEP/NJ Geological Survey), Alfred Korndoerfer (NJDEP/Water Monitoring & Standards), Robert Connell (NJDEP/ Water Monitoring & Standards), Debra Hammond (NJDEP/Water Monitoring & Standards)
- 11:10-11:30am** **Break & Posters**
- 11:30am-12:45pm** **Breakout Session #1**
Topics: Emerging Technologies – Water Quality
Stormwater
Mercury: Impacts, Sources & Monitoring
- 12:45-1:45pm** **Lunch (with speaker)**
EcoComplex Welcome – Keith Cooper (Executive Vice Dean of Agriculture and Natural Resources and Executive Director of the Rutgers EcoComplex)
Lunch Topic: IOOS: Linking Resource Management to Monitoring
Speaker: J. Frederick Grassle, Rutgers Institute for Marine & Coastal Sciences
- 1:45-3:00pm** **Breakout Session #2**
Topics: Emerging Technologies – Water Quantity/Flow
Nutrients/Biocriteria
Microbial Source Trackdown
- 3:00-3:30pm** **Break & Posters**
- 3:30-4:45pm** **Breakout Session #3**
Topics: Emerging Contaminants
Ecological Monitoring
Recreational Beach Monitoring
- 4:45pm** **Depart**

Breakout Sessions

Session 1

A. Emerging Technologies: Water Quality

Robert Connell, NJDEP/Water Monitoring & Standards - Moderator

- Integrated Approaches for Coastal Monitoring ([Robert Connell](#), NJDEP/Water Monitoring & Standards)
- The Evolution of the NJ Observing System: The Potential for Water Quality Management ([Oscar Schofield & Scott Glenn](#), Rutgers Institute for Marine & Coastal Sciences)

B. Stormwater Monitoring

Kirk Barrett, Passaic River Institute/Montclair State University - Moderator

- Monitoring Stormwater for Development of TMDLs ([Chris Obrupta](#), Rutgers Cooperative Extension/Cook College, Department of Environmental Sciences)
- Monitoring Urban Stormwater Best Management Practices: Why is it Important and What to Monitor ([Dr. Scott Struck](#), EPA National Risk Management Laboratory, Edison)
- Monitoring Stormwater from Industrial Sites for Permit Compliance and Environmental Effects: a 10 Year Review ([Brian McLendon](#), NJDEP/Division of Water Quality)

C. Mercury: Impacts, Sources & Monitoring

Leslie McGeorge, NJDEP/Water Monitoring & Standards - Moderator

- Why Monitor for Mercury: Overview of Bioaccumulation, Concentrations, Fish Advisories and Criteria in NJ ([Gary Buchanan](#), NJDEP/Division of Science, Research & Technology)
- Sources of Mercury to New Jersey's Environment and TMDL Development: What's New? ([Michael Aucott](#), NJDEP/ Division of Science, Research & Technology)
- Low Level Mercury Monitoring; Part A: Method 1631E- Mercury Laboratory Analysis ([Anthony Carroll](#), EPA Region 4, Science and Ecosystems Support Division); Part B: Field Procedures and Preliminary Water Results ([Thomas Vernam](#), NJDEP/ Water Monitoring & Standards)

Session 2

A. Emerging Technologies: Water Quantity/Flow

Richard Kropp, USGS NJ Water Science Center - Moderator

- New Technologies for Measuring Stream Flow ([Timothy Reed](#), USGS/NJ Water Science Center)
- Measuring Evapotranspiration in the Pinelands ([Robert Nicholson](#), USGS/NJ Water Science Center)

B. Nutrients/Biocriteria

Thomas Belton, NJDEP/Division of Science, Research & Technology - Moderator

- Diatom-Based Models and Indices for Monitoring Nutrient Enrichment in NJ Streams ([Dr. Don Charles](#), The Philadelphia Academy of Natural Sciences)
- A Nutrient Biotic Index (NBI) for Use with Benthic Macroinvertebrate Communities ([A.J. Smith](#), NYDEC/Stream Monitoring)
- Nutrient TMDL Development for New Jersey - New York Harbor Estuary ([Marzooq Al-Ebus](#), NJDEP/Division of Watershed Management)
- Delaware Estuary Nutrient Approach ([Edward Santoro](#), Delaware River Basin Commission)

C. Microbial Source Trackdown

Robert Connell, NJDEP/Water Monitoring & Standards - Moderator

- New Jersey's Strategy for Microbial Source Tracking ([Eric Feerst](#), NJDEP/Water Monitoring & Standards)
- Monmouth University's MST Work ([John Tiedemann](#), Monmouth University)
- Shoreline Surveys and an Innovative CEHA Laboratory ([William Simmons](#), Monmouth County Health Department)

Session 3

A. Emerging Contaminants

Richard Kropp, USGS NJ Water Science Center - Moderator

- Pesticide Degradates ([Jeffrey Fischer](#), USGS/NJ Water Science Center) • Tentatively Identified Compounds (TICs) by State-of-the-Art Solid Phase Extraction: Mining the Preliminary Results ([Lee Lippincott](#), NJDEP/Division of Science, Research & Technology) • Emerging Contaminants in our Water Resources ([Herb Buxton](#), USGS/NJ Water Science Center)

B. Ecological Monitoring

Alfred Korndoerfer, NJDEP/Water Monitoring & Standards - Moderator

- Bioassessment Integration Study: Systems Ecology Evaluation of USEPA Rapid Bioassessment Protocols in New Jersey (Macroinvertebrates, Periphyton, Fish and Habitat) ([Dr. Richard Horwitz](#), The Philadelphia Academy of Natural Sciences) • Assessing Ecological Impairment in NJ's Estuarine and Coastal Marine Waters: Problems and Solutions ([Michael Kennish](#), Rutgers Institute for Marine & Coastal Sciences/[Nancy Immesberger](#), NJDEP/Water Monitoring & Standards) • Ecological Monitoring in NJ Harbor Waters ([Charles Strobel](#), EPA Office of Research and Development – Atlantic Ecology Division)

C. Recreational Beach Monitoring

Becky Cosgrove, Monmouth County Health Department - Moderator

- NJDEP Cooperative Coastal Monitoring Program ([Virginia Loftin](#), NJDEP/Division of Watershed Management) • 2006 EPA Water Quality Monitoring Program ([Helen Grebe](#), EPA Region 2, Monitoring and Assessment Branch) • County Beach Monitoring Program ([Becky Cosgrove](#), Monmouth County Health Department)