

4:45pm

Depart

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 9:00-9:05 AM	Plenary Session & Keynote 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 <u>Moderator</u> : Robert Tudor (Delaware River Basin Commission) <u>Speakers</u> : 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

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)