

CONFERENCE SPONSORS

New York State Energy Research and Development Authority
New York State Department of Public Service
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U.S. Environmental Protection Agency

**ENVIRONMENTAL
MONITORING,
EVALUATION, AND
PROTECTION IN
NEW YORK:
LINKING SCIENCE
AND POLICY**

SEPTEMBER 24-25, 2001

The Desmond • 600 Albany-Shaker Rd. • Albany, NY

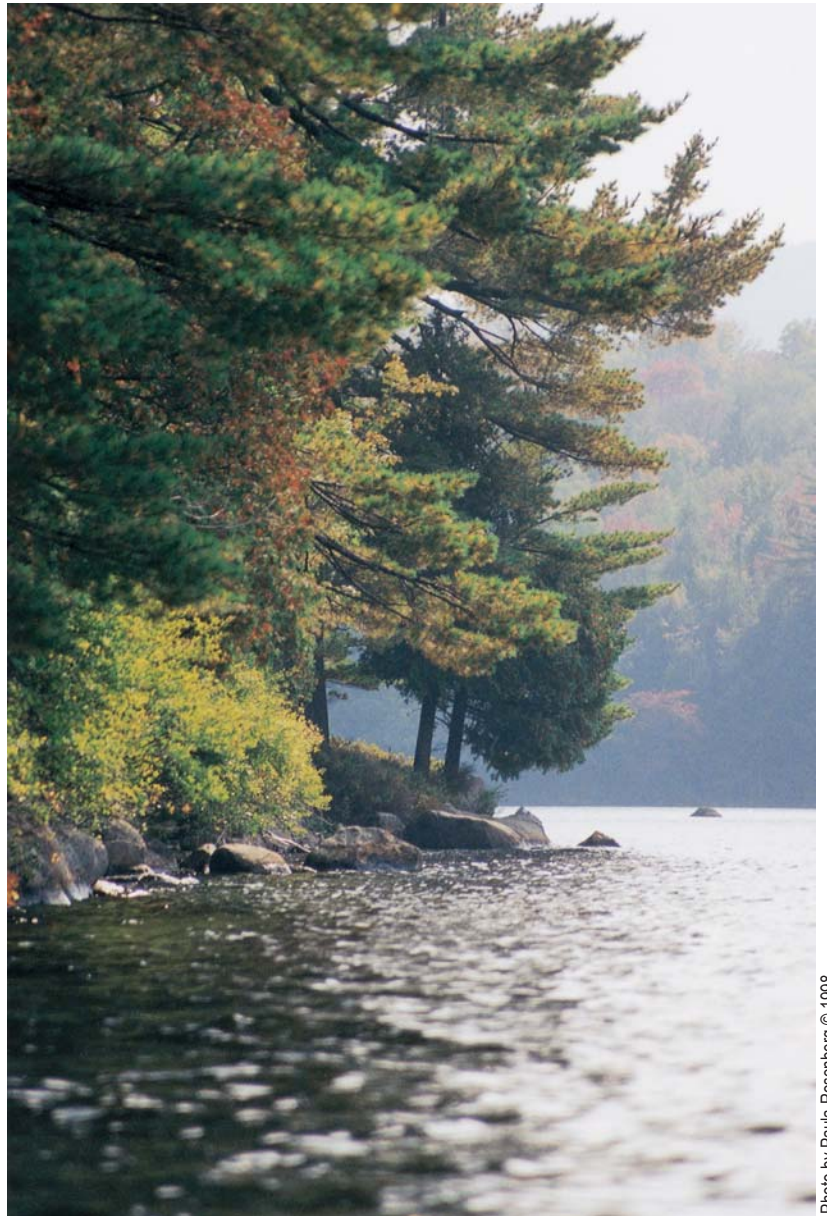


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South Pond, Long Lake

This conference brings together policy makers and scientists to share information on environmental research initiatives in New York State. The conference highlights the New York Energy SmartSM Environmental Program, which provides policy-relevant research to improve our understanding of environmental pollutants related to electricity generation.

ENVIRONMENTAL MONITORING, EVALUATION, AND PROTECTION IN NEW YORK: LINKING SCIENCE AND POLICY SEPTEMBER 24-25, 2001

The Desmond • 600 Albany-Shaker Road • Albany, NY 12205

MONDAY, SEPTEMBER 24, 2001

8:00 - 8:30 a.m. **Registration and Continental Breakfast (King Street Courtyard)**

8:30 a.m. **Opening Plenary (4, 6, & 8 King Street)**

- **Welcome - William M. Flynn, President**
New York State Energy Research and Development Authority (NYSERDA)
- **Keynote Address - Erin Crotty, Commissioner**
New York State Department of Environmental Conservation (NYS DEC)

- 9:00 a.m.
- **Overview of the New York Energy SmartSM Environmental Research Program**
Janet Joseph, NYSERDA
 - **Environmental Research and Policy Development: Emerging Priorities for Protecting Environmental Quality and Public Health**
John Bachmann, U.S. Environmental Protection Agency (U.S. EPA)
-

10:00 a.m. **Break**

10:15 a.m.	<p><u>Session A</u> (4 & 6 King Street) ATMOSPHERIC DEPOSITION OF SULFUR, NITROGEN, AND MERCURY AND ECOSYSTEM RESPONSE</p> <p><i>This session will focus on acidic deposition and mercury in New York and the Northeast. Inputs, effects, and management strategies will be discussed. New research and monitoring initiatives will be highlighted.</i></p> <p>Session Chair: Richard Haeuber, U.S. EPA</p>	<p><u>Session B</u> (8 King Street) AIR QUALITY AND RELATED HEALTH RESEARCH: PARTICULATES, OZONE, AND CO-POLLUTANTS</p> <p><i>This session on air quality in New York and the Northeast will focus on emerging issues associated with fine particles, oxidants, and co-pollutants. Sources, effects, and management strategies will be discussed. New research and monitoring initiatives will be highlighted.</i></p> <p>Session Chair: Ed Horn, New York State Department of Health (NYS DOH)</p>
10:25 a.m.	<p>Overview of Deposition Monitoring Networks in New York State Philip Galvin, NYS DEC</p>	<p>Fine Particle and Ozone Assessments Jake Hales, NARSTO</p>
10:55 a.m.	<p>Emissions and Deposition of Acid Rain Precursors Kathleen Weathers, Institute of Ecosystem Studies</p>	<p>Fine Particle and Precursor Emissions from Stationary Combustion Sources Glenn England, GE Energy and Environmental Research</p>
11:25 a.m.	<p>Acidic Deposition and Terrestrial Ecosystems Myron Mitchell, State University of New York College of Environmental Science and Forestry (SUNY ESF)</p>	<p>Fine Particle and Precursor Emissions from Mobile Sources Richard Gibbs, NYS DEC</p>

12:00 - 1:30 p.m. **Luncheon (Fort Orange Courtyard) and Poster Session (2 King Street)**

MONDAY, SEPTEMBER 24, 2001 (cont'd)

1:30 p.m.	Session A (cont'd) (4 & 6 King Street) ATMOSPHERIC DEPOSITION OF SULFUR, NITROGEN, AND MERCURY AND ECOSYSTEM RESPONSE Session Chair: Howard Simonin , NYS DEC	Session B (cont'd) (8 King Street) AIR QUALITY AND RELATED HEALTH RESEARCH: PARTICULATES, OZONE, AND CO-POLLUTANTS Session Chair: Rashid Shaikh , New York Academy of Sciences
1:35 p.m.	Acidic Deposition and Wetland Ecosystems Dudley Raynal , SUNY ESF	New York Fine Particle Technology Assessment and Characterization Study Kenneth Demerjian , SUNY Albany
2:00 p.m.	Acidic Deposition and Aquatic Ecosystems • Integrated Assessment of Acidification Recovery across New York State – Douglas Burns , U.S. Geological Survey (USGS) • Catskill Region – Douglas Burns , USGS	Advances in Fine Particle Measurement Technology Harvey Patashnick , Rupprecht & Patashnick Co.
2:30 p.m.	• Adirondack Region – Karen Roy , Adirondack Lakes Survey Corp. / Charles Driscoll , Syracuse University	Analysis of Ozone and Fine Particles in the Northeast/Effects of Transboundary Pollution S.T. Rao , NYS DEC / P.K. Misra , Ontario Ministry of Environment
3:00 p.m.	Break	
3:15 p.m.	Status and Effects of Nitrogen Pollution in the Northeast: a New Integrated Assessment David Whittall , Hubbard Brook Research Foundation	Impact of Power Plants on Semivolatile Pollutants in New York and Update on Northeastern PM Supersites Initiative Philip Hopke , Clarkson University
3:45 p.m.	Emissions, Fate and Transport of Mercury • Christopher Walcek , SUNY Albany • Christian Seigneur , Atmospheric & Environmental Research, Inc.	Source Apportionment of Fine Particles in New York City George Thurston , New York University Medical Center
4:15 p.m.	Mercury Watershed Studies and Surveys in New York • Sunday Lake – Charles Driscoll , Syracuse University / Ronald Munson , Tetra Tech Inc.	Clinical Studies of Exposure to Ultrafine Particles Mark Utell and Mark Frampton , University of Rochester
4:45 p.m.	• New York City Watershed – Jay Bloomfield , NYS DEC	New York City Asthma Study Daniel Luttinger and Lloyd Wilson , NYS DOH
5:15 - 6:30 p.m.	Reception (Fort Orange Courtyard) and Poster Session (2 King Street)	

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TUESDAY, SEPTEMBER 25, 2001

8:00-8:30 a.m. **Continental Breakfast (King Street Courtyard)**

8:30 a.m. **Plenary: Environmental Performance of Distributed Generation – Balancing Energy and Environmental Objectives (4, 6, & 8 King Street)**

Chair: **Paul DeCotis**, NYSERDA

- **Catherine Morris**, Center for Clean Air Policy – Environmental Performance of Distributed Generation: National and Statewide Assessment
 - **Thomas Bourgeois**, Pace University – Pace / OnSite Energy Corp. Study of Distributed Generation/Combined Heat and Power
 - **Grant Chin**, California Air Resources Board – Technology Evaluation of Pollution Control for Distributed Generation
 - **Robert Sliwinski**, NYS DEC – Update on NYS DEC Distributed Generation Rulemaking
-

10:00 a.m. **Break**

10:15 a.m. **Panel Discussion: Policy Perspective on Information Needs and Management Strategies (4, 6, & 8 King Street)**

Panelists will address current thinking regarding management and protection strategies, and identify information/research needs to support sound policy development.

Chair: **Carl Johnson**, NYS DEC

- **Sandra Meier**, Environmental Energy Alliance of New York
 - **Charles Fox**, New York Governor's Office
 - **Peter Lehner**, New York Attorney General's Office
 - **Rona Birnbaum**, U.S. EPA
 - **David Goldston**, Congressman Boehlert's Office/House Science Committee
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12:00 - 1:30 p.m. **Luncheon (Fort Orange Courtyard) and Poster Session (2 King Street)**

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TUESDAY, SEPTEMBER 25, 2001 (cont'd)

1:30 p.m.

Session A (cont'd) (4 & 6 King Street)
**ATMOSPHERIC DEPOSITION OF SULFUR,
NITROGEN, AND MERCURY AND
ECOSYSTEM RESPONSE**

**Special Working Group Session:
Developing a Research and Monitoring
Strategy for New York to Address Acid Rain
and Mercury**

Moderator: **Mark Watson**, NYSERDA

Session B (cont'd) (8 King Street)
**AIR QUALITY AND RELATED HEALTH RESEARCH:
PARTICULATES, OZONE, AND CO-POLLUTANTS**

**Special Working Group Session:
Developing a Research and Monitoring
Strategy for New York to Address
Particulates, Ozone, and Co-Pollutants**

Moderator: **Barry Liebowitz**, NYSERDA

3:00 p.m.

Break

3:15 p.m.

**Plenary Discussion: Future Directions for a Multipollutant and Multimedia
Environmental Protection Strategy (4, 6, & 8 King Street)**

Panelists will provide insight on potential future directions for a multipollutant and multimedia protection strategies. Discussion will provide input to help define future research solicitations under the New York Energy Smart Environmental Program.

Chair: **David Shaw**, NYS DEC

- **Joe Mauderly**, National Environmental Respiratory Center, Lovelace Respiratory Research Institute
 - **Bruce Hicks**, National Oceanic and Atmospheric Administration
 - **Edmund Crouch**, Cambridge Environmental
 - **Janet Joseph**, NYSERDA – Overview of Potential Multipollutant Research Plans in New York
-

4:45 p.m.

**Closing Remarks – Elizabeth Thorndike, Center for Environmental Information and
Member of NYSERDA Board (4, 6, & 8 King Street)**

All registered attendees will receive a copy of the
conference proceedings, which will be
published in a special edition
of the journal **ENVIRONMENTAL POLLUTION**.

Additional copies may be purchased for \$60.
Copies of the draft abstracts are also available.

For information, please contact Renee Serbu:
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rcs@nyserda.org

POSTER PRESENTATIONS

A Comparison of Urban and Rural PM-2.5 Chemical Species Composition in New York State

A High-Resolution Record of Mercury Deposition in Reservoir Sediments of the Patroon Creek Watershed, Albany, New York

A Study of the Effects of Land-Use Types on the Boundary Layer Evolution

Aerosol Generation and Calibration Facility for Aerosol Research and the Evaluation of Aerosol Measuring Techniques and Instrumentation

Advances in Fine Particulate Measurement Technology

Application of an Integrated Biogeochemistry Model (PnET-BGC) to Lakes/Watershed Ecosystems in the Adirondack and Catskill Regions of New York

Assessing Sustainable Sulfur and Nitrogen Deposition Rates for Northeastern North American Forests

Chemical and Biological Control of Mercury Cycling in Upland, Wetland, and Lake Ecosystems in the Adirondack Region of New York

Continuous PM-2.5 Sulfate in Queens, New York Measured Using Four Different Techniques

Differential TEOM® System for Exact Particulate Matter Mass Determination in Ambient Air

Difficulties in Linking Acid Deposition and Lake Water Concentrations in the Adirondacks

Effects of Urban Vegetation in the New York City Metropolitan Area

Measurement of NO_y at Whiteface Mountain: Sampling Issues and the Effect of Cloud Water

NARSTO Fine-Particle and Ozone Assessments

NARSTO-NE-OPS 2001 Project Overview

Nitrification Measurements at Two Sites in the Catskills and Adirondacks

PM-2.5 Mass Measurement at a Rural New York State Site: Comparisons of FRM-Filter-Based 24-Hour Measurements and Continuous TEOM® Measurements with and without a Nafion™ Dryer

PM-2.5 Monitoring in New York State: Mass, Temporal, and Species Data from the NYSDEC Monitoring Network

Raman Lidar Contributions to Understanding Air Quality Issues

Recovery of Adirondack Ecosystems: Critical Management and Research Needs

Research Aircraft Studies of Photochemical Ozone and Regional Haze

Spatial and Temporal Variations in the Trace Elemental Data over the Northeastern United States

Willow Bioenergy Crops for Greenhouse Gas Reductions by Co-Firing



Clear Pond

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PROGRAM CONTACT

Technical or program issues:

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fax - 518.862.1091; mw1@nyserda.org

FOR ADDITIONAL INFORMATION

Information about other NYSERDA projects and opportunities may be obtained by visiting NYSERDA's website, writing, or calling:

www.nyserda.org

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