

RESEARCH PROJECTS SUPPORTED BY THE EMEP PROGRAM

Air Quality and Related Health Research: Particulate Matter (PM), Ozone, and Co-Pollutants	
Clinical Studies of Exposure to Ultrafine Particles*	University of Rochester Medical Center (M. Utell and M. Frampton)
Source Apportionment of Fine Particles in New York City	New York University Medical Center (G. Thurston)
Impact of Power Plants on Semivolatile Pollutants and Fine Particles in New York State	Clarkson University (P. Hopke and T. Holsen), State University of New York (SUNY) - Fredonia (M. Milligan)
Analysis of Ozone and Fine Particles in the Northeast*	University at Albany (S.T. Rao)
Effects of Transboundary Pollution on New York's Air Quality*	NYS Department of Environmental Conservation (S.T. Rao)
Enhanced Measurements of Oxidants, Fine Particles, and Precursors	University at Albany (K. Demerjian)
Demonstration of Continuous Ambient Particulate Monitor*	Rupprecht & Patashnick Co., Inc. (J. Ambs)
Demonstration of Innovative Instrument for Ambient Particulate Matter Mass Measurement Standard*	Rupprecht & Patashnick Co., Inc. (J. Ambs)
Fine Particle Constituents and Acute Asthma in Urban Areas	NYS Department of Health (D. Luttinger)
Monitoring Particle Size Distribution in Rochester	Clarkson University (P. Hopke)
Fine/Ultrafine Particulate Emissions Profiles*	GE Energy and Environmental Research Corp. (G. England)
Workshop on Incorporation of Receptor Models into PM and Adverse Health Effects Study	Clarkson University (P. Hopke)
Formation and Transformation of Particles in Motor Engine Exhaust	University at Albany (F. Yu)
Assessment of Carbonaceous PM _{2.5} for New York and the Region	Northeast States for Coordinated Air Use Management (P. Johnson)
Physical and Chemical Characterization of Laboratory-Generated Secondary Semivolatile Organic Particles	University at Albany (K. Demerjian)
Chemical Composition of Fine Organic Particles from Urban and Regional Background Locations in New York State	Rutgers University (M. Mazurek)
Analysis of Particulate Matter Data in New York Using Advanced Source Apportionment Methods	Clarkson University (P. Hopke)
Ultrafine Particles and Cardiac Responses: Evaluation in a Cardiac Rehabilitation Center	University of Rochester Medical Center (M. Utell)
Atmospheric Deposition of Sulfur (S), Nitrogen (N), and Mercury (Hg) and Ecosystem Response	
Long-Term Monitoring Program for Evaluating Changes in Water Quality in Adirondack Lakes	Adirondack Lakes Survey Corporation (K. Roy)
Evaluation of the Recovery from Acidification of Adirondack Ecosystems	SUNY College of Environmental Science and Forestry (M. Mitchell and D. Raynal), Syracuse University (C. Driscoll)
Mercury in Adirondack Wetlands, Lakes, and Terrestrial Systems	Tetra Tech, Inc. (R. Munson), Syracuse University (C. Driscoll)
Effects of Atmospheric Deposition of Sulfur, Nitrogen, and Mercury on Adirondack Ecosystems*	SUNY College of Environmental Science and Forestry (D. Raynal and M. Mitchell), Syracuse University (C. Driscoll)
Contributions of Global and Regional Sources to Mercury Deposition in New York State*	Atmospheric & Environmental Research, Inc. (C. Seigneur)
Integrated Assessment of Recovery of Surface Waters from Reduced Levels of Acid Deposition in the Catskills and Adirondacks*	U.S. Geological Survey (D. Burns), Institute of Ecosystem Systems (G. Lovett)
Status and Effects of Nitrogen Pollution in Northeastern United States*	Hubbard Brook Research Foundation (K. Lambert)
Atmospheric Transport and Fate of Mercury in New York State*	University at Albany (C. Walcek)
Deposition and Effects of Air Pollution in the Hudson Valley*	Institute of Ecosystem Studies (G. Lovett)
Assessment of Extent to Which Intensively Studied Lakes Are Representative of the Adirondack Mountain Region	E & S Environmental Chemistry, Inc. (T. Sullivan)
Potential Recovery of Water Chemistry and Stream Biota from Reduced Acid Deposition at a Sensitive Watershed in the Catskill Mountains	U.S. Geological Survey (D. Burns)
Long-term Monitoring and Assessment of Mercury Using the Common Loon, Prey Fish, Water, and Sediment	Adirondack Cooperative Loon Program/ Wildlife Conservation Society (N. Schoch), Biodiversity Research Institute (D. Evers)
Strategic Monitoring of Mercury in New York State Fish	NYS Department of Environmental Conservation (H. Simonin)
Assessment of Chemistry and Benthic Communities in Streams of the Oswegatchie-Black River Basins of the Adirondack Region	U.S. Geological Survey (G. Lawrence), Adirondack Lakes Survey Corp. (K. Roy), University of Texas (S. Passy)
Forest Health and Stream and Soil Chemistry Using a Multiscale Approach and New Methods of Remote Sensing Interpretation, Catskill Mountains, New York	U.S. Geological Survey (P. Murdoch), USDA Forest Service (R. Hallet)
Assessment of Nitrogen and Acidic Deposition Impacts to Terrestrial and Aquatic Ecosystems of the Tug Hill Region	SUNY College of Environmental Science and Forestry (M. Mitchell and G. McGee)
Assessing the Sensitivity of New York Forests to Cation Depletion	SUNY College of Environmental Science and Forestry (R. Yanai)
Mercury Deposition Monitoring Network: Adirondacks and Catskills	Syracuse University (C. Driscoll), U.S. Geological Survey (M. McHale)
Projects Crosscutting the Topics of Air Quality, Health, and Ecosystem Response	
Quantifying Atmospheric Nitrogen Sources with New Stable Isotope Techniques	U.S. Geological Survey (C. Kendall and D. Burns), University of California, Berkeley (E. Boyer)
Multipollutant Policies for the Electricity Sector and Environmental Quality in the Empire State*	Resources for the Future (K. Palmer)
Analysis of New Pollution Control Strategy Utilizing Emission Reduction Credits and Small-Scale Combined Heat and Power Units	Navigant Consulting (A. Greene)
Quantifying the Environmental Benefits of Increased Deployment of Combined Heat and Power Technologies in NYS and the Impact of Proposed Emissions Standards for Small Distributed Generation	Navigant Consulting (W. Puntel)
Ambient Gaseous Ammonia: Evaluation of Continuous Measurement Methods Suitable for Routine Deployment	University at Albany (J. Schwab)
New York City Regional Heat Island Initiative	SAIC (R. Slosberg), Columbia University (C. Rosenzweig), Hunter College of CUNY (W. Solecki)
*Completed projects	