Guide to Poster Locations

Rooms: Albany and Colonie

Poster Location	Poster Title	Organization	Poster Presenter
Ecosystem Response to Sulfur, Nitrogen and Mercury			
E1	Chlorophyll *a* and Total Phosphorus: New to the Complement of Chemical Parameters Analyzed by the Adirondack Long-Term Monitoring Program	Adirondack Lakes Survey Corporation	Phil Snyder
E2	A Comparison of Contemporary Cloudwater pH to Pre-Industrial Values at Whiteface Mountain	Adirondack Lakes Survey Corporation	Nenad Aleksic
E3	The TERRA Mercury Network: Understanding Mercury in Terrestrial Ecosystems	BioDiversity Research Institute	Kathryn Williams
E4	Assessing the Impact of Long-Term Mercury Contamination on Wildlife Health in New York, Using the Common Loon as a Sentinel Species	BioDiversity Research Institute	Nina Schoch
E5	Assessment of Methylmercury Availability to Bats in New York - 2006-2009	BioDiversity Research Institute	David Yates
E6	Long-Term Effects of Liming on Carbon and Nitrogen Cycling in the Woods Lake Watershed, Adirondack Park	Cornell University	April Melvin (*recipient of EMEP student fellowship*)
E7	Critical Loads of Sulfur and Nitrogen Deposition to Protect and Restore Acid-Sensitive Resources in the Adirondack Mountains: Progress to Date	E&S Environmental Chemistry, Inc.	Timothy J. Sullivan
E8	Acidic Deposition Effects on Sugar Maple in the Adirondacks: Linkages Among Streams, Soils, and Vegetation Health – Background, Objectives, and Field Sampling	E&S Environmental Chemistry, Inc.	Timothy J. Sullivan
E9	Comparison of the New York State Atmospheric Deposition Monitoring Program with Nearby NADP Sites	New York State Department of Environmental Conservation	Kevin Civerolo
E10	Baseline Measurements of Ambient Concentrations of Elemental, Reactive Gaseous and Particle-Bound Mercury at Two Urban Locations in New York	New York State Department of Environmental Conservation	Dirk Felton
E11	Mercury and Selenium in Fish in Important Recreational Waters of New York State	New York State Department of Environmental Conservation	Eric Paul
E12	A Fifteen Year Dataset on Chemistry and Biota in Adirondack Lakes: Trends and Future Directions	Rensselaer Polytechnic Institute	Sandra Nierzwicki-Bauer
E13	Role of Residence Time in an Oligotrophic Lake on Increased Export of Dissolved Organic Carbon	SUNY College of Environmental Science and Forestry	Phil-Goo Kang
E14	The Importance of Soil Mineralogy to Calcium Availability in Forests	SUNY College of Environmental Science and Forestry	Ruth Yanai
E15	Atmospheric Deposition and Cycling of Mercury in Adirondack Forest Ecosystems	Syracuse University	Bradley Blackwell
E16	The Production and Transfer of Methylmercury within Terrestrial Foodwebs across the Northeastern Landscape	Syracuse University	Amy Sauer (*recipient of EMEP student fellowship*)

Poster Location	Poster Title	Organization	Poster Presenter
E17	Regional Forest Health and Stream and Soil Chemistry Using a Multi-Scale Approach and New Methods of Remote Sensing Interpretation, Catskill Mountains, NY	USDA Forest Service	Richard Hallett
E18	Impacts of Acidification on Macroinvertebrate Communities in Streams of the Adirondack Mountains, New York, USA	U.S. Geological Survey	Barry P. Baldigo
E19	Mercury in Wet-Only Precipitation in the Catskill Mountains, New York, 2004-2008	U.S. Geological Survey	Michael McHale
E20	Mercury Deposition Through Litterfall and Subsequent Accumulation in Soils: Influence of Forest Community Type	University of Vermont	Juliette Juillerat
Climate Change			
C1	Gravitational Trapping of Carbon Dioxide in Deep Ocean Sediments	Columbia University	Jonathan Levine
C2	CO_2 Capture Using NIMS and Ex-Situ Carbon Mineralization Using Wollastonite	Columbia University	Huangjing Zhao
C3	Urban Climate Change Mitigation Strategies	City University of New York	Yehuda Klein
C4	A Field Laboratory for Evaluating the Effects of Climate Change and Atmospheric Pollutants in the Adirondack Mountains: The Huntington Forest and the Arbutus Watershed	SUNY College of Environmental Science and Forestry	Myron J. Mitchell
C5	An Integrated Analytical Tool for Electric Load Management, Local Energy Planning, and Greenhouse Gas Emission Mitigation	U.S. Environmental Protection Agency, Region II	Edward Linky
Alternative Energy			
AE1	Determining Sustainable Forest Harvest and Regeneration for Biofuels and Bioproducts in the Adirondacks: A Research Needs Agenda	Adirondack Research Consortium	Joseph Visalli
AE2	Carbon Storage vs. Biofuel Production in the Northern Forest: Implications of Changes in Harvest Regimes for Net Carbon Benefits Over Time	Cary Institute	Charles Canham
AE3	Assessing the Economic Viability of Anaerobic Digesters on Dairy Farms in NYS Through the Use of Mathematical Models	Clarkson University	Andrew F. Brouwer
AE4	Pathogen Reduction and Correlation to Factors Responsible for Pathogen Reduction in Dairy Farm Operations Treating Agricultural Waste	Clarkson University	Rajiv Narula
AE5	Life Cycle Assessment of Alternative Energy Sources: A Case Study of Anaerobic Digestion	Clarkson University	Mark Venczel
AE6	Increasing the Efficiency of Wood Heating Through Public Education	Cornell Cooperative Extension Tompkins County	Guillermo Metz
AE7	Avian Risk Assessment for a Community Wind Project in Albany County: Empowering "Citizen Scientists"	Integrated Environmental Data, LLC	Kathleen E. Moore
AE8	Alternate Source of Energy in the Forms of Liquid Fuel from Solid Waste Plastic	Natural State Research	ASD Din Mohammad
AE9	NYSERDA's High Efficiency Biomass Heating Research and Development (R&D) Program	New York State Energy Research and Development Authority	Nathan Russell

Guide to Poster Locations

Rooms: Schenectady and Troy

Air Quality and Related Health Research			
A1	Spectrothermography of Carbon Containing Compounds Using the SUNSET Real Time ECOC Instrument	Atmospheric Sciences Research Center	James Schwab
A2	Use of Conditional Probability Function and Other Analysis Tools to Understand the Aerosol and Gas Pollutant Source Contributions to a Rural New York State Sampling Site	Atmospheric Sciences Research Center	James Schwab
A3	Relationship Between Particle Size Distributions and Elemental Carbon Measured by Different Methods in New York City	Atmospheric Sciences Research Center	Wei-Nai Chen Min-Suk Bae
A4	High Resolution Mass Spectrometry Analysis of Laboratory-Generated Secondary Organic Aerosols	Atmospheric Sciences Research Center	Brian Frank
A5	NO_2 and Trace Gas Measurements by QC Laser and Other Methods: The Summer 2009 Queens College Special Study	Atmospheric Sciences Research Center	Yu Chi Lin James Schwab
A6	Size-Resolved Aerosol Chemistry with High-Resolution Aerosol Mass Spectrometry During QC Summer 2009 Field Intensive Study	Atmospheric Sciences Research Center	Kenneth Demerjian James Schwab
A7	Emissions Characteristics of Residential Gas, Oil, and Wood Pellet Heating Systems	Brookhaven National Laboratory	Thomas Butcher
A8	Dispersion of Highway-Generated Pollutants in Urban Areas	Clarkson University	Meilu He (*recipient of EMEP student fellowship*)
A9	Integrated Unipolar Charger with Tailored Electrode Concentration Sensor (TECS) for Ambient Ultrafine Particle Measurements	Clarkson University	Ishara R.J. Mudalige
A10	Gaseous, Particulate, and Semi-Volatile Emission Rates from a High Efficiency Wood Pellet Boiler	Clarkson University	Philip K. Hopke
A11	Development and Field Test of an Automated Sampling System for Particle-Bound Reactive Oxygen Species in Rochester, NY	Clarkson University	Philip K. Hopke
A12	Application of Integrating Sphere Method to Apportion Ambient Particle Sources	Columbia University	Beizhan Yan
A13	Do Peaking Units Emissions Form Local Air Pollution Hotspots?	Cornell University	K. Max Zhang
A14	Air Quality and Exposure Impacts of Clean Diesel Strategies in New York - Progress in Emissions Estimation and Air Quality Modeling	Cornell University	H. Oliver Gao
A15	Comparison of Particle Mass and Number Emissions Across Temporal and Spatial Scale from a Diesel Transit Bus	Cornell University	Darrell Sonntag (*recipient of EMEP student fellowship*)
A16	Modeling Microenvironment Air Quality in Rochester, NY	Cornell University	K. Max Zhang
A17	CMAQ Validation of Optical Parameters and $PM_{2.5}$ Based on Lidar and Sky Radiometer	City University of New York	Barry Gross
A18	Dynamic $PM_{2.5}$ Estimators Based on PBL Height and Aerosol Climatology	City University of New York	Barry Gross

A19	Federal Equivalent Method Testing, Results, and Approval for the BAM-1020 Continuous Particulate Matter Mass Monitor	Met One Instruments, Inc.	Michael Meyer
A20	An Initial Assessment of Trace Elements in Fuel Oil Used in New York State	Northeast States for Coordinated Air Use Management	John Graham
A21	Evidence for the Oxidation of Hydrocarbons by Atomic Chlorine	New York State Department of Environmental Conservation	Robert Henry
A22	A Multi-Model Air Quality Forecast Guidance System for New York State	New York State Department of Environmental Conservation	Christian Hogrefe
A23	Simultaneous Hourly Measurements of EC, OC, and SO_4 at Two Sites in New York City	New York State Department of Environmental Conservation/ Atmospheric Sciences Research Center	Oliver Rattigan
A24	Spatial and Temporal Trends of Wood Smoke Markers in Rural and Urban NY, NJ, and CT Airsheds from 2002 to 2007	Rutgers University	Monica A. Mazurek
A25	Chemical Profiles of PAH Marker Compounds in $PM_{2.5}$ from Gasoline, Diesel, and Hybrid Vehicles	Rutgers University	Monica A. Mazurek
A26	On Board Evaluation of Real-Time PM Sensors to Determine DPF Failures, for Retrofits on Heavy Duty Vehicles	TSI, Inc.	Robert C. Anderson
Power Generation - Related Research			
P1	Production of Sustainable Hydrocarbon Fuels via Electrolysis of CO_2 and H_2O with Renewable/Nuclear Energy	Columbia University	Catherine Lee
P2	A Numerical Method for Optimizing Advanced Coal-fired Power Plants	Columbia University	Xinxin Li
P3	Mercury and Sulfur Trioxide Control at Cornell University Boiler #8	Cornell University	Stacey Edwards
P4	Long Island MARKAL- Electricity Generation Optimization and the Impacts of Policy Change	City University of New York	David Friedman
P5	Oxygen Transport Membrane Based Oxy-Fuel Combustion for CO_2 Capture	ENrG, Inc.	V. Venkateswaran
P6	Optimization of Low-NO_x Operation at Cayuga Unit 1	Lehigh University	Carlos E. Romero
P7	Use of Waste and CO_2 Compression Heat to Reduce Penalty Due to Post-Combustion CO_2 Capture	Lehigh University	Nenad Sarunac