



Environmental Monitoring, Evaluation, and Protection in New York: *Linking Science and Policy*

2013 Poster List

AIR QUALITY AND HEALTH

25 Years of atmospheric monitoring at Whiteface Mountain Observatory: A data set available for the environmental research community

R. E. Brandt* (ASRC, SUNY Albany), J. Schwab (ASRC, SUNY Albany), K.L. Demerjian (ASRC, SUNY Albany), H.D. Felton (NYS DEC), Oliver V. Rattigan (NYS DEC)

ASRC Whiteface Mountain Field Station

Paul Casson*, Richard Brandt, James Schwab (all: ASRC, SUNY Albany)

Correlation between ambient ultrafine particle events at two geographically displaced monitors in New York City

Brian P. Frank* (NYS DEC), H. D. Felton (NYS DEC), Oliver V. Rattigan (NYS DEC), Robert C. Anderson (TSI, Inc.), Jacqueline Perry (NYS DEC), Olga Hogrefe (ASRC, SUNY Albany), Brian Aho (NYS DEC), Hamza Hafeez (Clarkson University)

Development of a new electrostatic diesel particulate trap

Christopher Frewin*, Suresh Dhaniyala (all: Clarkson University)

Impact of ozone transport mitigation policy through the NO_x SIP call on children's respiratory hospitalizations in New York State

S. Lin*, C. Pantea, A. St. Louis (all: NYS Department of Health)

Impacts of CFPP shutdown and ULSD adoption on micro-environmental air quality in Rochester, NY

K. Max Zhang* (Cornell University), Yan Wang (Cornell University), P.K. Hopke (Clarkson University), Yugang Wang (Clarkson University)

Injection of meteorological factors into satellite estimates of surface PM_{2.5}

Barry Gross* (City College of NY), Lina Cordero (City College of NY), Nabin Malakar (City College of NY), Yonghua Wu (City College of NY), Fred Moshary (City College of NY), Mike Ku (NYS DEC)

Long term trends of air pollutants in New York State: Urban-rural contrasts

Oliver V. Rattigan* (NYS DEC), Kevin L. Civerolo (NYS DEC), H. Dirk Felton (NYS DEC), James J. Schwab (ASRC, SUNY Albany)

Recent trends and 21st Century projections of ozone pollution extremes over the Northeastern USA during summer

Arlene M. Fiore* (Columbia University), Harald E. Rieder (Columbia University), Larry W. Horowitz (NOAA), Vaishali Naik (NOAA)

Risk of acute myocardial infarction associated with increased particulate matter concentration: Effect modification by air mass back trajectory

David Q. Rich* (University of Rochester Medical Center), Mark Utell (University of Rochester Medical Center), Frederick Ling (University of Rochester Medical Center), Mark Frampton (University of Rochester Medical Center), Wojciech Zareba (University of Rochester Medical Center), Cathleen Kane (University of Rochester Medical Center), Nichole Baldwin (Clarkson University), P.K. Hopke (Clarkson University)

Shifting seasonal cycles of surface ozone: The role of regional vs. global emission changes

Olivia Clifton* (Columbia University), Arlene M. Fiore (Columbia University), Gus Correa (Columbia University), Larry W. Horowitz (NOAA), Vaishali Naik (NOAA)

Spatial extent of new particle formation and growth events

James J. Schwab* (ASRC, SUNY Albany), Brian P. Frank (NYS DEC), H. D. Felton (NYS DEC), Oliver V. Rattigan (NYS DEC), G. Garland Lala (ASRC, SUNY Albany), Kenneth L. Demerjian (ASRC, SUNY Albany)

Towards the development of a sensor network for ultrafine particle measurements at a high-spatial and temporal resolution

Ishara R.J. Hungama Mudalige*, Suresh Dhaniyala (all: Clarkson University)

Tracking trends in ozone production efficiency at Pinnacle State Park

James J. Schwab*, Kenneth L. Demerjian, John Spicer (all: ASRC, SUNY Albany)

Using the electrical low pressure impactor to measure and collect size-segregated combustion aerosols

Patricia M. Fritz* (NYS Department of Health), Shida D. Tang (NYS DEC), David Guerrieri (NYS DEC), Brian P. Frank (NYS DEC)

CROSSCUTTING

Hudson River Environmental Conditions Observing System (Hudson River ECOS)

Gavin Lemley*, Alene M. Onion (all: NYS DEC)

The Northeast Regional Earth System Model: Science to support regional decision making

Naci Dilekli* (Rensselaer Polytechnic Institute), Bernice Rosenzweig (City College of NY), Charles Vörösmarty (City College of NY), Faye Duchin (Rensselaer Polytechnic Institute), Ariel Miara (City College of NY), Vatsal Bhatt (Brookhaven National Laboratory), David Kicklighter (Marine Biological Laboratory), Wil Wollheim (University of New Hampshire), Rob Stewart (University of New Hampshire), Nima Ehsani (City College of NY)

* Poster presenter



BIOMASS AND BIOFUELS

Cellulosic biofuel potential in the Northeast: A scenario analysis

Naci Dilekli*, Faye Duchin
(all: Rensselaer Polytechnic Institute)

High resolution imaging and characterization of combustion emission nanoparticles produced from advanced technology, and outdoor wood burning boilers; and their impact on human lung epithelium

B. Panessa-Warren*, J.B. Warren, T. Butcher, R. Trojanowski, C. Brown, K. Kisslinger, G. Wei (all: Brookhaven National Laboratory)

Innovative fine particulate measurement systems for the wood stove design challenge

R. Trojanowski* (Brookhaven National Laboratory), T. Butcher (Brookhaven National Laboratory), Youngjun Ahn (SUNY Stony Brook), C. Brown (Brookhaven National Laboratory), G. Wei (Brookhaven National Laboratory)

Looking at sub-daily averaging times for PM 2.5 concentrations in communities where wood burning is common

Meghan Krug* (NYSERDA), Thomas Wainman (NYS Department of Health), Patricia Fritz (NYS Department of Health)

Monitoring CO off-gassed from wood pellets in in-use storage bins

Huang Xinrui*, D. Thimmaiah, Alan Rossner, P.K. Hopke, L. Soto-García (all: Clarkson University)

Off-gas emission kinetics of CO and VOCs from wood pellets manufactured in the Northeastern U.S.

L. Soto-García*, Huang Xinrui, D. Thimmaiah, Alan Rossner, P.K. Hopke (all: Clarkson University)

The impact of thermal storage on wood pellet boiler efficiency and emissions

P.K. Hopke*, L. Soto-García, D. Thimmaiah (all: Clarkson University)

Unconventional wood chip drying for high-efficiency biomass heating market

Ben Marmonb* (Rensselaer Polytechnic Institute), Jeffrey A. Marquis (Rensselaer Polytechnic Institute), John E. Okonskia (Troy Boiler Works), B. Wayne Bequette (Rensselaer Polytechnic Institute)

CLIMATE CHANGE

Carbon sequestration in New York State: A decade of research

Brian Slater* (NYS Geological Survey)

Cost effective evaluation of the impact of sea level rise on future flood hazards across New York State

Brian Batten*, Matthew Mampara, Stephen Sanchagrin (all: Dewberry)

Downscaled projections of extreme rainfall in New York State

Christopher M. Castellano*, Arthur T. DeGaetano (all: Cornell University)

Low temperatures during the cold season and hospitalizations due to acute myocardial infarction in New York State, 1991-2004

Aida Soim, Shao Lin, Syni-An Hwang (all: NYS Department of Health / University of Albany)

The effect of extreme heat during summer on birth weight among term babies in New York State, 1991-2006

Aida Soim, Shao Lin, Syni-An Hwang, (all: NYS Department of Health / University of Albany)

ECOSYSTEMS

An examination of fish presence using the relationship between base cations (BC) and strong organic anions (RCOO-) in waters collected by the Adirondack Lakes Survey Corporation

James E. Dukett*, Nathan Houck, Phil Snyder, Sue Capone (all: Adirondack Lakes Survey Corporation)

Assessing changes in regulating services after biomass removal in the Hubbard Brook Experimental Forest, using the Forest Ecosystem Services Toolkit (FEST)

Jesse Caputo* (SUNY-ESF), Peter Groffman* (Cary Institute of Ecosystem Services), Colin Beier (SUNY-ESF)

Drivers of inverse DOC-nitrate loss patterns in forest soils and streams

Christine L. Goodale* (Cornell University)

Liming to accelerate the recovery of acidified ecosystems: A case study in the Adirondack Mountains of New York

Douglas A. Burns* (U.S. Geological Survey), Gregory B. Lawrence (U.S. Geological Survey), Karen Riva Murray, (U.S. Geological Survey), Charles T. Driscoll (Syracuse University), Cliff E. Kraft (Cornell University), Daniel C. Josephson (Cornell University)

Mercury levels in small fish from Seneca Lake tributaries

Patrick Gunn*, Lisa B. Cleckner (all: Hobart and William Smith Colleges)

New international regulations on mercury: Will they change the course?

Svetoslava Todorova* (Syracuse University)

Refinements to the Adirondack Long Term Monitoring (ALTM) lakes sampling program

Karen Roy* (NYS DEC), Leon Sedefian (NYS DEC), Kevin Civerolo (NYS DEC), James Dukett (Adirondack Lakes Survey Corporation), Nathan Houck (Adirondack Lakes Survey Corporation), Michael Cantwell (Adirondack Lakes Survey Corporation), Gregory Lampman (NYSERDA), Clara Funk (U.S. EPA)

The effect of pH and calcium addition on decomposition and soil microbial community composition

Bhavya Sridhar*, Christine L. Goodale (all: Cornell University)

Monitoring of an Adirondack ecosystem: Impacts of acidic and mercury deposition and climate change on watersheds

P. McHale* (SUNY-ESF), M.J. Mitchell (SUNY-ESF), C. Demers (SUNY-ESF), C.T. Driscoll (Syracuse University)

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