

The first NYS Mesonet Annual Symposium

UAlbany Campus Center Multi-Purpose Room, September 29th, 2021

Remote Access through Zoom Webinar:

<https://albany.zoom.us/j/97072728691?pwd=N2FhYVlGdk15RXRSd29DeHI3SXpSUT09>

Contact: nysmesonetsymposium@gmail.com

Time	Title	Speaker	Affiliation
7:30 AM	Registration & Breakfast		
8:30 AM	Welcome & Opening Remarks	Nick Bassill & June Wang	UAlbany
8:35 AM	UAlbany Vice President for Research	Jim Dias	UAlbany
8:40 AM	UAlbany President	Havidán Rodríguez	UAlbany
8:50 AM	Mesonet Motivation	Chris Thorncroft	UAlbany
9:05 AM	Mesonet Overview	Jerry Brotzge	UAlbany
	Session 1: Emergency Management	Kristen Corbosiero	
9:30 AM	Weather Analysis and the Energy Sector	Kevin Wisely	NYS DPS
9:45 AM	New York State Watch Center: Informing the response to significant weather	Shaun Bertok & Dan Fudge	NYS DHSES
10:00 AM	Implementation of NYS Mesonet for Operational Water Management and Flood Forecasting	Kenneth R. Avery	Bergmann
10:15 AM	Catered Coffee Break & Poster		
	Session 2: Mesonet Data Uses	Justin Minder	
10:45 AM	Engaging student learning and involvement using Mesonet Data and Dashboard	Crystal Perno	Acadia Middle School- Shenendehowa
11:00 AM	Using Mesonet Data to Determine the Role of Wind in Legionnaires Disease Outbreaks	Braden Savage	NYS DOH
11:15 AM	Application of NYS Mesonet LiDAR Profilers for Air Quality Studies	James Schwab	UAlbany
11:30 AM	NYSDOT Snow and Ice Program	Tina Crowley & Joe Thompson	NYS DOT
11:45 AM	The NYS Mesonet: A New Tool in a Forensic Meteorologists' Toolbox	Alicia Wasula	STM Weather
12:00 PM	NYSolarCast: A Statewide Solar Power Forecasting System Reliant Upon NYS Mesonet Data	Jared A. Lee	NCAR
12:15 PM	Instructions, Catered Lunch & Poster		
1:00 PM	Travel to ETEC		
1:15 PM	ETEC Tour		
1:45 PM	Travel from ETEC & Afternoon Welcome		
	Session 3: Hydrology & Modeling	Scott Miller	
2:00 PM	Integration of NYS Mesonet Data into Operations at WFO New York, NY	David Radell	NOAA/NWS at NYC WFO

2:15 PM	The 24 August 2020 Whitehall, New York Flash Flood	Tom Wasula	NOAA/NWS at Albany WFO
2:30 PM	A methodology for assessing mesonet suitability for satellite soil moisture cal/val: Results from the New York State Mesonet	Michael Cosh	USDA-ARS
2:45 PM	Evaluation of HRRR Model Forecasts with NYS Mesonet and ASOS Observations	Robert Fovell	UAlbany
3:00 PM	Assessing the Effects of Initial and Lateral Boundary Conditions on Mesoscale Predictability of Precipitation Type over Complex Terrain	Justin Minder	UAlbany
3:15 PM	The Potential Use of New York State Mesonet Data in High-Resolution Mesoscale Weather Modeling	Anthony Praino (Lloyd Treinish, Mukul Tewari)	IBM Research
3:30 PM	Analysis of an Isolated Severe Microburst at the New York State Mesonet Site in Chazy on 5 July 2018	Peter Banacos	NOAA/NWS at Burlington WFO
3:45 PM	Catered Coffee Break & Poster		
	Session 4: Winter Weather & Research	Jerry Brotzge	
4:15 PM	The record-breaking snowstorm on 16-17 December 2020: Forecast challenges and utility of the New York State Mesonet	Mike Evans	NOAA/NWS at Albany WFO
4:30 PM	Evaluating and Improving Snow Prediction in the National Water Model in New York State using New York State Mesonet Data	Sierra Liotta	UAlbany
4:45 PM	Thermodynamic, Liquid Water and Precipitation Observations during Heavy Snowfall	Randolph Ware	Radiometrics
5:00 PM	The surface signature of diurnal boundary layer evolution observed by the NY Mesonet and complementary observations: a pilot study	David Fitzjarrald	UAlbany
5:15 PM	Using NYSM Stations to Objectively identify the Sea Breeze and Low Level Jets along the South Shore of Long Island	Elizabeth McCabe	UAlbany
5:30 PM	Discussion/Closing Remarks		
6:00 PM	Adjourn		

Poster Presentations

Authors	Affiliation	Title
Amanda Carpenter (Brian Crandall, Jacqueline Perry, John Kent)	NYS DEC	Air pollution during the 2020 ozone season
Brian Filipiak (Kristen Corbosiero, Nick Bassill, Ross Lazear, Andrea Lang)	UAlbany	Data Fusion: A Machine Learning Tool for Mixed Precipitation
Jeff Freedman (and John Zack)	UAlbany	Using the New York State Mesonet surface and profiler observations to adjust model-based surface roughness and gust characteristics
An T. Le	CHA Consulting, Inc.	Impact of a Planning Level Study for Voltage Flicker on an AC Power System
Hsiao-Chun Lin (Sarah Lu, Ryan Torn, Jerald Brotzge, and Everette Joseph)	UAlbany	Assimilating New York State Mesonet Observations over Warm and Cold Seasons
Justin Minder	UAlbany	An overview of the upcoming Winter Precipitation Type Research Multi-scale Experiment (WINTRE-MIX)
Vincent W. Moriarty (Michael R. Kelly, Lloyd A Treinish, Harry R. Kolar)	IBM Research	Antecedent Weather Drivers of Harmful Algal Blooms in New York State
Christina Speciale, Nick Bassill, Alex Kellman, Heather Kenyon, Jared Klein, Mitchell Gaines	NOAA/NWS and UAlbany	Development of Operational Products from the New York State Mesonet to Aid Forecasts of High-Impact Weather Events by National Weather Service Forecast Offices: Freezing Rain Project
David Sonnenfroh	Physical Sciences Inc.	Compact, High Performance Ceilometers for Network Deployment
Kiyoko Yokota (Sierra Stickney, Paul H. Lord)	SUNY Oneonta	Evaluation of the Effects of Lake De-icers on lake heat budget