

16th Great Lakes Operational Meteorology Workshop
September 5-7, 2007
Milwaukee, Wisconsin

Preliminary Agenda (updated 8/27/07)

Day One – Morning:
Wednesday September 5th

- 7:30 AM **Registration**
- 8:00 AM **Introduction and Welcome**
- 8:25 AM **Synoptic and Local Controls of the Lake Michigan Pneumonia Front –**
Cory Behnke¹ and Paul J. Roebber²
¹NOAA/National Weather Service, Detroit, Michigan
²Atmospheric Science Group, University of Wisconsin-Milwaukee
- 8:45 AM **Lake Breezes and Summer Severe Weather in Westerly Flows –**
Patrick King, Ontario Storm Prediction Centre, Toronto, Ontario Canada
- 9:05 AM **A Conceptual Model for Warm Season Elevated Convection Over**
Lake Michigan – Jeffrey P. Craven, NOAA/National Weather Service,
Milwaukee/Sullivan, Wisconsin
- 9:25 AM Break
- 9:40 AM **The Lake Michigan/Northwest Indiana Supercell of 23 August 2006 – Jeff**
Logsdon, Todd Holsten and Jon Chamberlain, NOAA/National Weather Service,
Northern Indiana
- 10:00 AM **Wisconsin’s First \$100 Million Storm – The 12 May 2000 Elevated Supercell**
Jeffrey K. Last and Eugene S. Brusky, NOAA/National Weather Service, Green
Bay, Wisconsin
- 10:20 AM **A Pseudo-Objective Assessment of Local High Resolution WRF-ARW**
Forecasts of Convection – Tom Hultquist and Andrew Just NOAA/National
Weather Service, Marquette, Michigan
- 10:40 AM Break
- 10:50 AM **Nowcasting Severe Convection Using Objective Tools Which Optimize the**
Impact of Sequences of GOES Satellite Derived Moisture Products – Ralph
Petersen¹ and Robert Aune²
¹Cooperative Institute for Meteorological Satellite Studies (CIMSS),
University of Wisconsin-Madison

²NOAA/NESDIS/ORA, NESDIS/Advanced Satellite Products Team, Madison, Wisconsin

11:10 AM **CIMSS Satellite-Derived Convective Storm Nowcasting and Aviation Products** – Kristopher Bedka, Wayne Feltz, Jordan Gerth and Justin Sieglaff, Cooperative Institute for Meteorological Satellite Studies (CIMSS), University of Wisconsin-Madison

11:30 AM **Synthetic Geostationary Satellite Imagery from Forecast Model Output – A Quick-look Tool for Forecasting** – Robert M. Aune², Gary S. Wade¹, and Jordan J. Gerth¹,
¹Cooperative Institute for Meteorological Satellite Studies (CIMSS), University of Wisconsin-Madison
²NOAA/NESDIS/ORA, NESDIS/Advanced Satellite Products Team, Madison, Wisconsin

11:50 AM Lunch

**Day One – Afternoon:
Wednesday September 5th**

1:10 PM **MODIS Products in AWIPS: Using Research Satellites in Operations** –, Scott Bachmeier, Jordan Gerth and Kathleen Strabala, Cooperative Institute for Meteorological Satellite Studies (CIMSS)- University of Wisconsin-Madison.

1:30 PM **GR2Analyst Convective Applications** – Robert Dale, WLNS TV6, Lansing, Michigan

1:50 PM **Radar Observations of a Rare “Triple” Three-Body Scatter Spike** – Phillip G. Kurimski, Jeffrey K. Last and Eugene S. Brusky, NOAA/National Weather Service, Green Bay, Wisconsin

2:10 PM Break

2:25 PM **Using the Terminal Doppler Weather Radar to Supplement National Service Radar (WSR-88D) During Severe Weather Operations** – Timothy Halbach and William Wilson, NOAA/National Weather Service, Chicago-Romeoville, Illinois

2:45 PM **Carol Stream Illinois Microburst of 31 March 2007: The Use of Terminal Doppler Weather Radar (TDWR) to Supplement WSR-88D Data** – Mark Ratzler, NOAA/National Weather Service, Chicago-Romeoville, Illinois

3:05 PM **The Labor Day Rockford, Illinois Flash Flood and the Effects of Backward Propagation and Warm Rain Processes** – Christopher Gitro, NOAA/National Weather Service, Chicago-Romeoville, Illinois

3:25 PM Break

- 3:35 PM **An Examination of Two Flash Flooding Events on 17 September 2005 and 22 July 2006** – Michael Dutter, NOAA/National Weather Service, Cleveland, Ohio
- 3:55 PM **The 19 July 2006 Derecho Event – A Meteorology and Radar Review** – Ed Shimon, NOAA/National Weather Service, Central Illinois
- 4:15 PM **High Wind Event Across Northeast Illinois on 2 October 2006** – Nathan Marsili, NOAA/National Weather Service, Chicago-Romeoville, Illinois
- 4:35 PM **An Oklahoma Supercell in Ontario** – Mitch Meredith and Arn Ashton, Ontario Storm Prediction Centre, Toronto, Ontario Canada
- 4:55 PM Adjourn

Evening Activity – Brewery Tour

**Day Two – Morning:
Thursday September 6th**

- 8:00 AM **The 7 June 2007 Tornadic Supercell Outbreak in Northern and Central Wisconsin** – Eugene S. Brusky, Jeffrey K. Last and Phillip Kurimski, NOAA/National Weather Service, Green Bay, Wisconsin
- 8:20 AM ***Invited Speaker***
- A Look at Some Supercell and Nonsupercell Tornado Settings in the Western Great Lakes** – Jon Davies, Private Meteorologist, Kansas City-Trimble, Missouri
- 9:05 AM **Conditional Probability Estimation for Significant (F2 or Stronger) Tornadoes from the Logistic Regression Utilizing Near Storm Environment (NSE) Independent Variables** – William E. Togstad and Sarah J. (Taylor) Corfidi, NOAA/National Weather Service, Chanhassen, Minnesota
- 9:25 AM Break
- 9:40 AM ***Invited Speaker***
- NCEP Overview** – Dr. Louis Uccellini, Director, NOAA/NCEP, Camp Springs, Maryland
- 10:25 AM **Operational Marine Modeling for the Great Lakes at NCEP** – Hendrik L. Tolman, Marine Modeling and Analysis Branch, Environmental Modeling Center, NOAA/NCEP, Camp Springs, Maryland
- 10:45 AM Break

10:55 AM *Invited Speaker*
RUC/Rapid Refresh Development and Testing Including TAMDAR and Radar Reflectivity Impact Studies – *Stan Benjamin, Global Systems Division/Earth System Research Laboratory, NOAA, Boulder, Colorado*

11:35 AM **Changing the Philosophy in Editing Forecast Grids** – *Steve Hentz, NOAA/National Weather Service, Milwaukee-/Sullivan, Wisconsin*

11:55AM *Luncheon Guest Speaker*

Dr. David Travis, University of Wisconsin Whitewater

**Day Two – Afternoon:
Thursday September 6th**

1:10 PM **The Use of Confidence Graphics to Assist in the Prediction of Changes in Large Scale Synoptic Patterns** – *David Zaff and Dominic Gaetano, NOAA/National Weather Service, Buffalo, New York*

1:30 PM **A Climatology of Non-Convective High Wind Events in the Great Lakes Region** – *John A. Knox¹, M. C. Lacke¹, J. D. Frye¹, A. E. Stewart¹, J. D. Durkee¹, C. F. Fuhrmann², and S. M. Dillingham¹*
¹*University of Georgia*
²*University of North Carolina - Chapel Hill*

1:50 PM **Synoptic-Dynamic Aspects of Non-Convective High Winds During the 12-13 November 2003 Great Lakes Mid-Latitude Cyclone** – *John A. Knox¹, M. C. Lacke¹, J. D. Frye¹, A. E. Stewart¹, J. D. Durkee¹, C. F. Fuhrmann², and S. M. Dillingham¹*
¹*University of Georgia*
²*University of North Carolina - Chapel Hill*

2:10 PM Break

2:25 PM **The April 15-16 Nor'easter in Central NY and Northeast PA, Part I: Overview and Snowfall Banding Aspects. Part II: Assessing Operational Precipitation Type Forecasts** – *Justin Arnott and Michael Evans, NOAA/National Weather Service, Binghamton, New York*

2:55PM **A Late Season “Yoopers” Blizzard: Observational Analysis of 3 April – 8 April 2007** – *Andrew Just and Jennifer Lee, NOAA/National Weather Service, Marquette, Michigan*

3:15 PM **Precipitation Type Issues During the 3-8 April 2007 Upper Michigan Blizzard: A Numerical Weather Prediction Perspective** – *Tom Hultquist, NOAA/National Weather Service, Marquette, Michigan*

3:35 PM Break

- 3:45 PM **Historic Lake-Effect Snowstorm Durations Near Lake Ontario** – *David A. R. Kristovich¹, Nancy Westcott¹, Faye Barthold², Thomas Workoff², and Michael Spinar¹*
¹*Center for Atmospheric Sciences, Illinois State Water Survey, Champaign, IL*
²*Department of Atmospheric Sciences, University of Illinois, Urbana, IL*
- 4:05 PM **Out of Season Snowfalls in the Upper Midwest/Western Great Lakes** –
Richard D. Mamrosh, NOAA/National Weather Service, Green Bay, Wisconsin
- 4:25 PM **A Brief Climatology of Major Winter Storms in Milwaukee, Wisconsin** – *Bill Borghoff, NOAA/National Weather Service, Milwaukee-Sullivan, Wisconsin*
- 4:45 PM **WSR-88D Snow Accumulation Algorithm Verification in Upper Michigan** –
Marcia Crounce and Tom Green, NOAA/National Weather Service, Marquette, Michigan
- 5:05 PM Adjourn

**Day Three – Morning:
Friday September 7th**

- 8:00 AM **Lake Effect Snow Storm Over Buffalo, NY 12-13 October 2006** – *Robert Hamilton, David Zaff and Tom Niziol, NOAA/National Weather Service, Buffalo, New York*
- 8:20 AM **Special Delivery: The October 2006 Buffalo Snowstorm – FedEx’s Response**
– *Dale Dockus, Senior Meteorologist, FedEx Flight Operations, Memphis, Tennessee*
- 8:40 AM **Heavy Snow Bands Observed Downstream of the Higher Terrain on the North Shore of Lake Superior: A Preliminary Investigation** –
Daniel J. Miller¹ and ²Robert J. Conzemius
¹*NOAA/National Weather Service, WFO Duluth, Minnesota*
²*WindLogics, Inc., Grand Rapids, Minnesota*
- 9:00 AM Break
- 9:15 AM **Dominant Lake-Effect Snowbands – Impact of Great Lakes Aggregate Dynamics** – *Gregg Mann, Ph.D., NOAA/National Weather Service, Detroit, Michigan*
- 9:35 AM **Regional Scale Ensemble Forecasts of the Lake Effect Snow Event of February 2007** – *Justin Arnott¹, Michael Evans¹ and Richard Grumm²*
¹*NOAA/National Weather Service, Binghamton, New York*
²*NOAA/National Weather Service, State College, Pennsylvania*

- 9:55 AM **Predecessor Rainfall Events (PRE) in the Great Lakes Region / Central U.S.**
– *Michael L. Jurewicz, Sr., NOAA/National Weather Service, Binghamton, New York*
- 10:15 AM Break
- 10:25 AM **Current Water Levels in the Great Lakes** – *Keith Kompoltowicz, Meteorologist, United States Army Corps of Engineers, Detroit, Michigan*
- 10:45 AM **The Impact of Atmospheric Conditions Aloft on Fire Weather and Fire Behavior Prediction in the Eastern United States** – *Joseph J. Charney, Brian E. Potter, and Daniel Keyser, USDA Forest Service, Northern Research Station, East Lansing, Michigan*
- 11:05 AM **An Examination of Extreme Heat Episodes over Southern Wisconsin** – *Michael Fowle, NOAA/National Weather Service, Milwaukee/Sullivan, Wisconsin*
- 11:25 AM **Upper Michigan Weather History** – *Karl Bohnak, WLUC TV, Marquette, Michigan*
- 11:45 AM Workshop Ends