



# Fourth Northern Plains Winter Storm Conference

## 9-10 November 2009 - Saint Cloud, MN

### Holiday Inn



#### Monday, November 9

10:00 - 11:55 AM Conference Registration

#### **SESSION 1: BLIZZARDS**

**Session Chair: Andrea Thorstensen, Social Chair, SCSU NWA**

- 11:55 AM *Conference Welcome* - Rod Kubesh and Tony Hansen, Earth and Atmospheric Sciences Department, St. Cloud State University, St. Cloud, MN
- 12:00 PM *Armistice Day Blizzard of 1940* – Terry Simmons, NOAA/National Weather Service, Quad Cities, Davenport, IA
- 12:30 PM *An Investigation of Early and Late Season Snowstorms in the Northern Plains and the Role of Soil Temperatures* – Michael Fowle, NOAA/National Weather Service, Aberdeen, SD
- 1:00 PM *Surprise Heavy Snowfall Over Upper Michigan* – David Pearson, NOAA/National Weather Service, Marquette, MI
- 1:30 PM *Basic Blizzard Ingredients Unmasked and a Review of the 5 April 2009 Non-Blizzard Through the Eyes of the SREF* – Ben Moyer, NOAA/National Weather Service, Johnston, IA

**Session 1 Ends**

2:00 PM *Break*

#### **SESSION 2: PUBLIC IMPACTS**

**Session Chair: Matthew Wunsch, Vice President, SCSU NWA**

- 2:20 PM *Current Weather Briefing* - Bob Weisman, Earth and Atmospheric Sciences Department, St. Cloud State University, St. Cloud, MN
- 2:50 PM *Public Perception to NWS Winter Weather Warnings: December 2008 – April 2009* – Matthew Taraldsen, Earth and Atmospheric Sciences Department, St. Cloud State University, St. Cloud, MN
- 3:20 PM *Assessing Winter Storm Threat: The Danger Degree Project* – Amanda Graning, NOAA/National Weather Service, Duluth, MN
- 3:50 PM *The Development and Utilization of Probabilistic Maximum and Minimum Temperature Fields* – Kyle Weisser, NOAA/National Weather Service, Sioux Falls, SD
- 4:20 PM *5-7 November 2008 North Dakota Blizzard Service Assessment: How Can We Improve?* – Joshua W. Scheck, NOAA/National Weather Service, Bismarck, ND

**Session 2 Ends**

*Dinner on your own*

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## **Tuesday, November 10**

7:45 AM *Continental Breakfast and Current Weather Briefing* - Bob Weisman, Earth and Atmospheric Sciences Department, St. Cloud State University, St. Cloud, MN

### **SESSION 3: CASE STUDIES**

**Session Chair: Todd Fortun, Treasurer, SCSU NWA**

8:15 AM *An Analysis of a Brief, But Intense Snow Event for Northwest Iowa on 18-19 December 2008: An Operational Perspective* – Michael Fuhs, NOAA/National Weather Service, Sioux Falls, SD

8:45 AM *The Differences and Similarities Between Three Heavy Banded Snow Events in Iowa* – Kenneth Podrazik, NOAA/National Weather Service, Johnston, IA

9:15 AM *The Extreme Lake Effect Snow Event Over North Central Lake Superior on 22 Feb 2009* – Andrew Kennedy, NOAA/National Weather Service, Negaunee, MI

9:45 AM *An Examination of Frontal Circulation During the Occlusion of a Mid-latitude Cyclone* – Philip Schumacher, NOAA/National Weather Service, Sioux Falls, SD

10:15 AM *Break*

10:30 AM *Atmospheric Response to Intense Frontogenetical Forcing for Ascent in the Presence of Strong Instability: The 5-6 April 2008 Northern Minnesota Case Example* – Dan Miller, NOAA/National Weather Service, Duluth, MN

**Session 3 Ends**

### **SESSION 4: WEATHER MIX**

**Session Chair: Brandon Bigelbach, Vice President, SCSU SCC**

11:00 AM *Properly Assessing the Potential for Post-frontal Low-level Clouds Associated with Arctic Air Masses* – Michael Bardou, NOAA/National Weather Service, Chanhassen, MN

11:30 AM *Case Study of a Late Fall High Wind Event in Anchorage, Alaska - October 10, 2008* - Matthew Taraldsen, Earth and Atmospheric Sciences Department, St. Cloud State University, St. Cloud, MN

12:00 PM *MOS Insanity: Temperature Forecast Errors During the January 2009 Arctic Outbreak* – Robert A. Weisman, Earth and Atmospheric Sciences Department, St. Cloud State University, St. Cloud, MN

**Session 4 Ends**

**12:30 PM *Conference Luncheon – Holiday Inn***

**\*\*Keynote Speaker:** *Recent Winter Weather Forecasting Advances and Future Opportunities* - David Novak, NOAA/National Weather Service, Hydrometeorological Prediction Center, Camp Springs, MD

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## **SESSION 5: SNOW MELT EFFECTS AND CLIMATOLOGICAL INFLUENCES**

**Session Chair: Bevan Glynn, President, SCSU WEA**

- 2:00 PM *Initial Results and Future Plans for a Snow Melt Predictor Using NWS NDFD Forecasts* - Matthew Friedlein, NOAA/National Weather Service, Chanhassen, MN
- 2:30 PM *An Overview of the 22-26 March 2009 Northern Plains Winter/Spring Storm and its Impacts on the Red River of the North Flood* – Peter Rogers, NOAA/National Weather Service, Grand Forks, ND
- 3:00 PM *The Interannual Variability of Northern Plains Temperatures as Related to the ENSO and the PDO* – Kevin Birk, NOAA/National Weather Service, Bismarck, ND
- 3:30 PM *Will It Ever Be Spring? Consecutive Snow Cover Days and Impacts at St. Cloud, Minnesota* - Robert A. Weisman, Earth and Atmospheric Sciences Department, St. Cloud State University, St. Cloud, MN

**Session 5 Ends**

- 4:00 PM *Closing Remarks and Door Prizes*, Rod Kubesh, Earth and Atmospheric Sciences Department, St. Cloud State University, St. Cloud, MN

**End of Conference**

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