



**REVISED AGENDA**  
**Second Northern Plains Winter Storm Conference**  
**24-25 October 2007 Saint Cloud, MN**  
**Best Western Kelly Inn**



**Tuesday, October 23**

3:00 PM – Midnight      Check In at Best Western Kelly Inn

**Wednesday, October 24**

7:00 – 10:00 AM      Conference Registration at Best Western Kelly Inn

**All Sessions Held in Congress/Senate Room**

8:15 AM      *Conference Welcome* – Rod Kubesh, Earth and Atmospheric Sciences Department, St. Cloud State University, St. Cloud, MN  
Tony Hansen, Chair, Earth and Atmospheric Sciences, St. Cloud State University, St. Cloud, MN

**SESSION 1: FORECASTING PRECIPITATION TYPE AND SNOW DENSITY**

**Session Chair: Rod Kubesh, SCSU Earth & Atmospheric Sciences**

8:20 AM      *Forecasting Snowfall Using a Neural Network* – Tom Grafenauer, NOAA/National Weather Service, Grand Forks, ND

8:50 AM      *A Late Season “Yoooper” Blizzard: Observational Analysis of 3-8 April 2007* – Andrew Just\* and Jennifer Lee, NOAA/National Weather Service, Marquette, MI

9:20 AM      *Evaluation and Lessons Learned from a Precipitation Type Outlier Event: An OK Experience* – Dan Baumgardt, NOAA/National Weather Service, LaCrosse, WI

10:00 AM      *Coffee and Refreshment Break*

**SESSION 1 CONTINUED**

**Session Chair: Jared Piepenburg, Social Chair, SCSU NWA**

10:15 AM      *WSR-88D Snow Accumulation Algorithm Verification in Upper Michigan* – Marcia Cronce and Tom Green\*, NOAA/National Weather Service, Marquette, MI

10:45 AM      *Occurrences of Freezing Drizzle in North Central Upper Michigan* – David Pearson, NOAA/National Weather Service, Marquette, MI

11:15 AM      *Extreme Snowfall Frequency Distributions: The Tails of Two Cities* – Kenny Blumenfeld, Department of Geography, University of MN, Minneapolis, MN

11:45 AM      **Synthesis Session on Forecasting Snow/Mix Amounts** – Audience Participation

**12:00 PM**      *Lunch Break – Lunch on Your Own*

\* Denotes Speaker

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## SESSION 1 CONTINUED

**Session Chair: Megan Schwitzer, Vice President, SCSU NWA**

- 1:10 PM *Weather Briefing* – Bob Weisman, Earth and Atmospheric Sciences Department, St. Cloud State University, St. Cloud, MN
- 1:30 PM *Snow Data Assimilation System and the Importance of Snow Observations* – Christopher Bovitz, NOAA/National Weather Service/National Operational Hydrologic Remote Sensing Center, Chanhassen, MN

**End of Session 1**

## SESSION 2: FRONTOGENESIS IN WINTER STORMS

**Session Chair: Kirstin Gleicher, President, SCSU NWA**

- 2:00 PM *Frontogenesis and Precipitation Organization within the Trough of Warm Air Aloft* – Philip Schumacher, NOAA/National Weather Service, Sioux Falls, SD
- 2:30 PM *A Synoptic Review of the 17-18 March Upper Midwest Winter Storm of 2005* – William Togstad\* and Karen Trammell, NOAA/National Weather Service, Twin Cities/Chanhassen, MN
- 3:00 PM *Coffee and Refreshment Break*

## SESSION 2 CONTINUED

**Session Chair: Matt Taraldsen, Treasurer, SCSU NWA**

- 3:20 PM *The Duluth, MN, Blizzard of 1 March 2007: Operational and Television Meteorologists' Perspective* – Amy Liles\*, NOAA/National Weather Service, Duluth, MN, Justin Liles\*, WDIO/WIRT-TV, Duluth/Hibbing, MN, and Amanda Graning, NOAA/National Weather Service, Duluth, MN  
**(featuring actual winter storm chasing video!!!)**
- 4:00 PM *Instability and Frontogenesis During the Historic Winter Storm of 23-26 February 2007 Over the Upper Mississippi Valley* – Seth Binau, NOAA/National Weather Service, LaCrosse, WI
- 4:30 PM **Synthesis Session on Operational Forecasting of Frontogenesis in Winter Storms** – Audience Participation

**End of Session 2**

- 5:00 PM Social Hour (refreshments on your own) – University A Room**
- 6:00 PM Conference Banquet – University A Room**

**Keynote Address:** *Where are Forecasts Headed?* – Phil Schumacher, NOAA/National Weather Service, Sioux Falls, SD

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## Thursday, October 25

### SESSION 3: CONFERENCE LABORATORY SESSION

Session Chair: Bevan Glynn, SCSU NWA

8:10 AM *Thundersnow Forecasting* – Patrick Market, Department of Soil, Environmental, and Atmospheric Sciences, University of Missouri – Columbia, Columbia, MO

8:30 AM *Did We Miss Something? An Exercise in Snow Forecasting* – Patrick Market, Department of Soil, Environmental, and Atmospheric Sciences, University of Missouri – Columbia, Columbia, MO

**(Bring Colored Pencils!!)**

**End of Session 3**

10:15 AM *Coffee and Refreshment Break*

### SESSION 4: APPLICATION OF SHORT-RANGE FORECASTS TO WINTER STORMS

Session Chair: Diana Jesberg, Secretary/Webmaster, SCSU NWA

10:35 AM *An Analysis of Short-Range Ensemble Cold-Season Precipitation Forecasts for Events Across the Northern and Central Plains* – Philip Schumacher\* and Kyle Weisser, NOAA/National Weather Service, Sioux Falls, SD

11:05 AM *Precipitation Type Issues During the 3-7 April 2007 Upper Michigan Blizzard: A Numerical Weather Prediction Perspective* – Tom Hultquist<sup>1</sup>, NOAA/National Weather Service, Marquette, MI

11:35 AM *Implications of Conflicting Model Forecasts of Low-Level Temperature Structure for Forecasting Two Upper Midwest Winter Storms* – Karen Trammell, NOAA/National Weather Service, Twin Cities/Chanhassen, MN

12:05 PM **Synthesis Session on Project Runway: What to do With Operational Models in Winter Storms** – Audience Participation

12:25 PM

**End of Session 4**

**End of Conference**

<sup>1</sup> Current Affiliation: NOAA/National Weather Service, Twin Cities/Chanhassen, MN

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