

Seventh Annual Northern Plains Convective Workshop
Rapid City, South Dakota
May 8-9, 2003

THURSDAY, MAY 8

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Session I—chaired by Dr. Bill Capehart

South Dakota School of Mines and Technology—Rapid City, South Dakota

7:30 AM Continental Breakfast

8:00 AM Workshop Welcome

8:15 AM Recent Advances in the Prediction of Lightning -- From Dry Thunderstorms to Intense Lightning

Phillip Bothwell (Storm Prediction Center - Norman, Oklahoma)

9:15 AM Lightning Case Studies in the Black Hills Region

Randall Benson (South Dakota School of Mines and Technology - Rapid City, South Dakota)

9:40 AM – Break –

9:55 AM The August 2002 Flash Flood near Kaycee, Wyoming

Brett McDonald (WFO Riverton, Wyoming)

10:20 AM From "Textbook" to Reality and Public Perception

Tanja Fransen (WFO Glasgow, Montana)

10:40 AM Ladysmith Tornado Event -- A Warning Decision Making and Office Coordination Perspective

Ed Shimon (WFO Duluth, Minnesota)

11:05 AM Examination of Parameters to Determine Possibility of Flash Flooding near the Grizzly Gulch Burn Area

Jason Grzywacz (WFO Rapid City, South Dakota)

11:30 AM Challenges for the SPC Fire Weather Program -- Forecasting Across 48 States

Phillip Bothwell (Storm Prediction Center - Norman, Oklahoma)

12:00 PM – Catered Lunch –

THURSDAY, MAY 8

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Session II—chaired by Matt Bunkers

WFO Rapid City, South Dakota

- 1:00 PM Interpretation of Observed Upper-Air Soundings**
Bob Maddox (University of Arizona - Tucson, Arizona)
- 2:00 PM Interactive Analysis of 28 August 2002 Supercell to Determine Warning Type**
David Kellenbenz (WFO Grand Forks, North Dakota)
- 2:25 PM An Interactive Analysis of an Unfavorably Timed Mesoscale Environment for Severe Storms**
Bradley Bramer (WFO Grand Forks, North Dakota)
- 2:50 PM – Break –**
- 3:05 PM The 23 June 2002 McPherson-Brown Tornadoes: Pre-Storm Assessment and Boundary Interactions**
David Hintz (WFO Aberdeen, South Dakota)
- 3:25 PM The 23 June 2002 McPherson-Brown Tornadoes: Supercell Life Cycle**
Dan Mohr (WFO Aberdeen, South Dakota)
- 3:45 PM The 23 June 2002 McPherson-Brown Tornadoes: Damage Assessment**
Ken Harding (WFO Aberdeen, South Dakota)
- 4:05 PM An Examination of the 17 August 2001 Siouxland Severe Storm Episode and the Role of Jet-“Front” Interaction**
Jeff Chapman (WFO Sioux Falls, South Dakota)
- 4:25 PM The Importance of Synoptic and Mesoscale Analysis in the Forecast Process**
Bob Maddox (University of Arizona - Tucson, Arizona)
- 5:00 PM – Adjourn –**
- 6:30 PM Banquet at Minervas**

FRIDAY, MAY 9

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Session III—chaired by Jeff Johnson

WFO Rapid City, South Dakota

7:30 AM Continental Breakfast

8:00 AM Comments and Weather Briefing

8:05 AM The Future of NWS Tornado Warnings

Don Burgess (National Severe Storms Laboratory - Norman, Oklahoma)

9:05 AM A Rare Fall Tornado Event in Bismarck, North Dakota

Vic Jensen (WFO Bismarck, North Dakota)

**9:30 AM The "Midnight" Tornado of September 10, 2002 at
Albertville, Minnesota**

Bill Togstad (WFO Minneapolis, Minnesota)

9:55 AM - Break -

**10:10 AM Radar Observations of the 3 May 1999 Oklahoma City
Tornado**

Don Burgess (National Severe Storms Laboratory - Norman, Oklahoma)

10:40 AM An Investigation of Supercell Longevity

Jeff Johnson (WFO Rapid City, South Dakota)

**11:00 AM Interactive Analysis of a Northern Plains Severe
Weather Event**

Matt Bunkers (WFO Rapid City, South Dakota)

**11:30 AM Warning Event Simulation of a Northern Plains Severe
Weather Event**

John Ferree (Warning Decision Training Branch - Norman, Oklahoma)

12:30 PM - Closing Remarks -