



FRA



AAR



NCAR

Symposium on Enhanced Weather Information for Improved Railroad Safety and Productivity

October 17 - 18, 2001

National Center for Atmospheric Research (NCAR)
1850 Table Mesa Drive
Boulder, CO

Sponsored By:
Federal Railroad Administration
Association of American Railroads
National Center for Atmospheric Research

AGENDA

Wednesday, October 17

0730 - 0830 Registration, Continental Breakfast, and Walking Tours
(Weather Provider Exhibitor Set-up)

0830 - 1000 Introduction: Weather Impact on Railroad Operations and Safety
Symposium Moderator: Susan Shaw Keegan - CSX

0830 - 0840 Symposium Introduction: *Susan Shaw Keegan*

0840 - 0850 Welcome to NCAR: *Dr. Brant Foote – Director, Research Applications Program*

0850 - 0905 Goals of Symposium: *Richard Wagoner - NCAR*

0905 - 0915 Weather Information and Intelligent Railroad Systems: *Steve Ditmeyer - FRA*

0915 - 0925 Weather and Railroad Operations: *Bill Browder - AAR*

0925 - 0935 Weather and Safety: - *NTSB*

0935 - 0950 Federal Weather Data for Railroads: *Blaine Tsugawa - OFCM*

0950 - 1000 Commercial Weather Services for Railroads: *Jim Block – CWSA*

1000 - 1020 Break
Weather Provider Exhibits

1020 - 1200 Emerging Technologies - 1

- 1020 - 1030 Introduction: *Susan Shaw Keegan*
1030 - 1050 ITS and the Future of Weather Information Dissemination: *Rich Taylor - ITSA*
1050 - 1110 FAA Weather Research Program – Potential Applications to Rail Operations: *Gloria Kulesa - FAA*
1110 - 1130 Technology Transfer Process from the FHWA Winter Maintenance Decision Support System Development: *Gary Nelson - MitreTek*
1130 - 1150 Advances in Forecasting at National Weather Service: *John McGinley - NWS*
1150 - 1200 Questions and Answers

**1200 - 1300 Box Lunch
Weather Provider Exhibits**

1300 - 1500 Emerging Technologies - 2

- 1300 - 1320 Hydrometeorology: *Rich Wagoner - NCAR*
1320 - 1340 Use of DGPS and New Data Sources to Improve Forecasts: *Sandy MacDonald - FSL*
1340 - 1400 Winter Storm Forecasting: *Roy Rasmussen - NCAR*
1400 - 1420 Relevant Research for Forecasting Track Buckling/Pull Apart: *George Blaisdell - CRREL*
1420 - 1440 Decision Support Systems Strategies: *Bill Mahoney - NCAR*
1440 - 1500 Questions and Answers

**1500 - 1520 Break
Weather Provider Exhibits**

1520 - 1630 View from the Field: Panel Discussion

Introduction: *Susan Shaw Keegan*
Representatives from:
Brotherhood of Locomotive Engineers
United Transportation Union
Brotherhood of Maintenance of Way Employees
Questions and Answers

**1630 - 1730 NCAR Tours
Weather Provider Exhibits**

1730 - 2030 Cocktail Reception and Buffet Dinner – Mesa Lab

Thursday, October 18

0730 - 0830 Continental Breakfast and Walking Tours
Weather Provider Exhibits

0830 - 1000 Weather Information Needs and Applications for Freight Service: Panel Discussion

Introduction: *Susan Shaw Keegan*

Representatives from:

Alaska Railroad

Burlington Northern Santa Fe

Canadian National

Canadian Pacific

CSX Transportation

Norfolk Southern

Union Pacific

Questions and Answers

**1000 - 1020 Break
Weather Provider Exhibits**

1020 - 1130 Weather Information Needs and Applications for Passenger Service: Panel Discussion

Introduction: *Susan Shaw Keegan*

Representatives from:

Amtrak

Metra

Questions and Answers

1130 - 1230 Enhancing Weather Information for Railroad Decision Makers

1130 - 1215 Discussion of Unmet Needs Vs. Emerging Technologies and Market Opportunities:
Richard Wagoner - NCAR

1215 - 1230 Actions Items and Follow-up: *Richard Wagoner – NCAR*

1230 - 1245 Closing Remarks: *Susan Shaw Keegan*

**1245 - 1400 Box Lunch and Walking Tours
Weather Provider Exhibits**

1400 Conference Ends