

Aurora Program

minutes

Aurora Board Meeting August 8, 2013 – Conference Call/Web Meeting

Individuals Participating:

Jason Norville, Pennsylvania DOT
Travis Lutman, North Dakota DOT
Dawn Gustafson, Michigan DOT
Mike Adams, Wisconsin DOT
Joe Doherty, New York State DOT
Tim Peters, Illinois DOT
Ron Hall, Kansas DOT
Jeff Williams, Utah DOT
Curt Pape, Minnesota DOT
Max Perchanok, Ontario MOT
Tina Greenfield, Iowa DOT
Linda Narigon, Iowa DOT
Roemer Alfelor, FHWA
Lee Smithson, AASHTO
Sheldon Drobot, NCAR
Chris Albrecht, Iowa State University

Meeting Agenda:

- 1) Call to Order (Jason Norville)
- 2) Approval of June Meeting Minutes (Chris Albrecht)
- 3) Program Administration and Rollover (Linda Narigon and Chris Albrecht)
- 4) Fall On-Site Board Meeting in Vancouver (Lee Smithson and Chris Albrecht)
- 5) Ongoing Project Progress (Project Champions)
- 6) Other Business (All)

1. Call to Order

Jason Norville called the meeting to order just after 1pm (CDT).

2. Approval of June Minutes

After a short discussion, the board voted to approve the minutes from the June 27 board web meeting. Chris Albrecht noted that he would post the minutes on the website as soon as possible.

3. Program Administration and Rollover

Chris Albrecht then briefly reviewed the latest management contract benchmarks, noting that the administrative group might want to meet via conference call before the peer exchange. After a short discussion, the group agreed to a call on September 5 at 1pm central time. Chris also noted that year-to-date program costs were in line with expectations. Finally, Chris briefly discussed progress of the pooled fund rollover.

4. Fall Meeting in Vancouver

Chris Albrecht then reviewed the latest plans for the on-site meeting to be held along with the peer exchange, noting that the meetings would be held at the Red Lion Hotel in Vancouver, Washington. The board also briefly discussed the scheduling of the board meeting for this same week, agreeing to meet on September 9 and September 12.

5. Ongoing Project Progress

Project champions then gave updates on the status of ongoing research. Details are as follows:

Project 2007-05 – Multiple-Use ITS Data Collection Sites: Chris Albrecht briefly reviewed this project, noting that the survey had been distributed and responses would be discussed in detail on a project conference call to be held on August 14.

Project 2009-01 – Summary and Comparison of Agency Experiences with Sensors: Dawn Gustafson noted that she and Chris had revised the spreadsheet again and sent it to the project team. After a short discussion, Joe Doherty volunteered to be the first to update the spreadsheet with NYSODT's experiences. Chris noted that this project was on track to be completed and closed by the end of 2013.

Project 2010-02 – Mobile-Weather Data Collection Guidelines: Chris noted that the team had decided that the draft paper should be shared with the attendees of the peer exchange in September, and that the project would be closed out by the end of 2013.

Project 2010-03 – Results-Based Winter Road Research: Max Perchanok reviewed this project, noting that the University of Waterloo researchers were making very good progress to date. He also noted that this effort should be completed by early 2014.

Project 2010-04 – RWIS Sensor Density: Max noted that the effort was also moving ahead steadily, with an expected completion in late 2014.

Project 2010-05 – Determining RPU and Sensor Failure: Chris Albrecht briefly reviewed this effort, noting that the project team had held a call in July, wherein they agreed to roll the tasks under this project into Project 2009-01. Therefore, the board voted to discontinue this effort. Chris noted that he would roll the \$5,000 funding allocation into general project funding.

Project 2011-02 – RWIS Training Tool: Tina Greenfield noted that this effort was now under contract, with an estimated completion in March 2015. A few other minor project details were also discussed.

Project 2011-04 – Study of MDSS Costs: Mike Adams reviewed this project, noting that he was done drafting a report based on Wisconsin DOT's experiences and costs, with information from other agencies mixed in where available. The report was currently being reviewed, and would be sent to the Aurora team once that review is complete. He also noted that the overall project should be complete by the end of 2013.

Project 2011-05 – Funding Source Identification: No update was provided for this effort.

Project 2012-01 – Validate the Accuracy of Pavement Condition Predictions from Various Sources: Max Perchanok reviewed the background to this effort, noting that he had asked Chris for help completing the RFP.

Project 2012-02 – Winter Severity Index, Phase 2: Tina Greenfield noted that she had circulated a draft guide to the entire board for review and received some comments. After a lengthy discussion, the board agreed that the guide met the objectives of this project. The board then voted to approve this project as complete.

Project 2012-03 – Cameras and Operational Impacts of Remote Road Conditions: Travis Lutman and Jeff Williams reported that the project team had started conducting interviews at various locations around Utah. To date, the first two tasks were complete, Jeff noted. He also noted that this effort was scheduled to be complete by June 30, 2014.

Project 2012-04 – Communicating and Publicizing Road Weather and Operations Information: After a lengthy discussion on the direction of this effort, Joe Doherty and Chris Albrecht noted that they would further discuss the scope and possible additional funding.

Project 2012-05 – Seasonal Weight Restrictions Demonstration: Max Perchanok reviewed the background on this project, noting that the RFP had been advertised over the summer, with a few proposals received to date.

Project 2013-01 – Fourth Peer Exchange: No update was provided for this effort.

Project 2013-02 – Transition of Clarus to MADIS: No update was provided for this effort.

Project 2013-03 – Improving Real-Time Traffic Speeds for Performance Measurement: Tina Greenfield briefly reviewed the status of this effort. She noted that her preferred plan was to source this research to Iowa State University's Statistics Department, with a starting time in the fall of 2013.

Project 2013-04 – Quantifying Salt Concentration on Pavement: Max Perchanok briefly reviewed the rough scope of this effort, noting that he would plan to have the RFP ready by the end of 2013.

Project 2013-05 – Knowledge Base Content Management: Tina Greenfield noted that this project is being undertaken by InTrans as a way to update and market the knowledge base. Chris Albrecht noted that he and Neal Hawkins had been working with Tom Lindsley on a new site format and content management system.

Project 2013-06 – Make Aurora Severity Index Available to Other Agencies: Tina Greenfield noted that this effort was still in the contracting process between negotiated on by Iowa DOT and AccuWeather.

6. Other Business

No other business was discussed.



Aurora Program Board Web Meeting

August 8, 2013

Today's Agenda:

- 1) Call to Order
- 2) Approval of June Meeting Minutes
- 3) Program Administration and Rollover
- 4) Fall On-Site Board Meeting in Vancouver
- 5) Ongoing Project Progress
- 6) Other Business



1) Call to Order

Jason Norville

Aurora Program Chair

Pennsylvania Department of Transportation

janorville@state.pa.us

Travis Lutman

Aurora Program Vice Chair

North Dakota Department of Transportation

tlutman@nd.gov

Dawn Gustafson

Aurora Program Past Chair

Michigan Department of Transportation

gustafsond@michigan.gov



2) Approval of Minutes

Aurora Program

minutes

Aurora Board Meeting
June 27, 2013 – Conference Call/Web Meeting

DRAFT #2

Individuals Participating:

Travis Lutman, North Dakota DOT
Dawn Gustafson, Michigan DOT
Max Perchanok, Ontario MOT
Mike Adams, Wisconsin DOT
Abner Johnson, Ohio DOT
Joe Doherty, New York State DOT
Tim Peters, Illinois DOT
Ron Hall, Kansas DOT
Jeff Williams, Utah DOT
Jimmy White, Virginia DOT
Tina Greenfield, Iowa DOT
Curt Pape, Minnesota DOT
Linda Narigon, Iowa DOT
Mike Kisse, North Dakota DOT
Jack Stickel, Alaska DOT&PF
Roemer Alfelor, FHWA

Any further comments?

3) Program Administration

	A	B	C	D	E	F	G	H	I	J
1	Aurora									
2		Aurora Contract Reporting Requirements								
5		Quarterly Reports	2013 Q1	2013 Q2	2013 Q3	2013 Q4	2014 Q1	2014 Q2	2014 Q3	2014 Q4
7		Project 2007-05	5/1/2013	7/31/2013						
8		Project 2008-01	5/1/2013	-						
9		Project 2009-01	5/1/2013	7/31/2013						
10		Project 2009-05	5/1/2013	-						
11		Project 2010-02	5/1/2013	7/31/2013						
12		Project 2010-03	5/1/2013	7/31/2013						
13		Project 2010-04	5/1/2013	7/31/2013						
14		Project 2010-05	5/1/2013	7/31/2013						
15		Project 2011-02	5/1/2013	7/31/2013						
16		Project 2011-03	5/1/2013	-						
17		Project 2011-04	5/1/2013	7/31/2013						
18		Project 2011-05	5/1/2013	7/31/2013						
19		Project 2012-01	5/1/2013	7/31/2013						
20		Project 2012-02	5/1/2013	7/31/2013						
21		Project 2012-03	5/1/2013	7/31/2013						
22		Project 2012-04	5/1/2013	7/31/2013						
23		Project 2012-05	5/1/2013	7/31/2013						
24		Project 2013-01	5/1/2013	7/31/2013						
25		Project 2013-02	5/1/2013	7/31/2013						
26		Project 2013-03	5/1/2013	7/31/2013						
27		Project 2013-04	5/1/2013	7/31/2013						
28		Project 2013-05	5/1/2013	7/31/2013						
29		Project 2013-06	5/1/2013	7/31/2013						
32		Meetings / Minutes	Materials Out	Minutes - Sent	- Approved	- Posted				
34		November 14, 2012 Board Meeting	11/1/2012	11/29/2012	12/6/2012	12/10/2012				
35		December 6, 2012 Board Meeting	11/29/2012	2/3/2013	4/3/2013	4/19/2013				
36		February 19, 2013 Administrative Meeting	2/5/2013	3/6/2013	3/13/2013	3/22/2013				
37		April 2, 2013 Board Meeting	3/12/2013	4/24/2013	5/15/2013	5/24/2013				
38		May 15, 2013 Board Meeting	5/1/2013	5/28/2013	6/27/2013	6/28/2013				
39		June 20, 2013 Administrative Meeting	6/13/2013	7/19/2013						
40		June 27, 2013 Board Meeting	6/13/2013	7/19/2013						
41		August 1, 2013 Administrative Meeting								
42		August 8, 2013 Board Meeting								
43										
44		September 9, 2013 Board Meeting								
45										
46										
47										

August 29 or September 5

4) Fall Meeting

- Fourth National Winter Maintenance Peer Exchange
- September 9-13, 2013
- Vancouver, Washington
- Red Lion Hotel Vancouver at the Quay →
- ***Aurora meeting on Monday pm and Thursday am***





4) Fall Meeting

- **Monday, September 9**
 - 1:00pm – Open and Projects
 - 3:30pm – Program Administration
 - 4:00pm – Future Meetings/Calls
- Tuesday, September 10 (Peer Exchange)
- Wednesday, September 11 (Peer Exchange)
- **Thursday, September 12**
 - 8:00am – Joint Meeting with Clear Roads
 - 11:00am – FY2014 Program

5) Ongoing Projects

20 ongoing projects

Aurora Program - Ongoing Project Status

June 25, 2013

FY 2007 through FY2009

- 2007-05: Multiple-Use ITS Data Collection Practices (\$15,000) = 40% complete
- 2009-01: Summary and Comparison of Agency Experience w/ Sensors (\$5,000) = 85% complete

FY 2010

- 2010-02: Mobile Weather Data Collection Guidelines (\$5,000) = 80% complete
- 2010-03: Results-Based Winter Road Maintenance Standards (\$155,000) = 85% complete
- 2010-04: RWIS Sensor Density and Location (\$100,000) = 50% complete
- 2010-05: Determining RPU and Sensor Failure (\$5,000) = 20% complete

FY 2011

- 2011-02: RWIS Training Tool (\$265,000) = 10% complete
- 2011-04: Study of MDSS Costs (\$5,000) = 75% complete
- 2011-05: Funding Sources Identification (\$5,000) = 10% complete

FY 2012

- 2012-01: Validate the Accuracy of Pavement Condition Predictions (\$100,000) = 5% complete
- 2012-02: Winter Weather Severity Index, Phase 2 (\$5,000) = 50% complete
- 2012-03: Cameras and Operational Impact of Remote ... Monitoring (\$20,000) = 20% complete
- 2012-04: Communicating and Publicizing Information (\$30,000) = 5% complete
- 2012-05: Seasonal Weight Restrictions Demonstration (\$250,000) = 5% complete

6) Other Business

working to advance road weather information systems technology **Aurora**

Home About **Projects** News Participate Resources For Members

Ongoing
Completed

Upcoming Events

- Thursday, May 19, 2011 at 12:00 pm (CDT) - **Aurora Board Web Meeting**
- Thursday, June 30, 2011 at 2:00 pm (CDT) - **Aurora Administrative Conference Call**
- Thursday, July 7, 2011 at 12:00 pm (CDT) - **Aurora Board Web Meeting**
- Monday, September 19, 2011 in Bozeman, Montana - **Aurora Board Meeting**
- Tuesday through Thursday, September 20-22, 2011 in Bozeman, Montana - **National Winter Maintenance Peer Exchange**

Who We Are

Aurora is an international partnership of public agencies who work together to perform joint research activities in the area of road weather information systems (RWIS). This website is designed to introduce the program, the partners, and our collaborative research projects.

Why Join Aurora?

- to help set the agenda for collaborative research, development, and deployment of road and weather information systems (RWIS).
- to multiply your agency's financial resources to address its most pressing RWIS-related challenges.
- to develop relationships with national and international, public and private leaders in RWIS equipment, decision support systems, standards, and training.

Board Chair:
Joe Doherty, New York State DOT

Members:
Indiana DOT

Ongoing Projects

- 2011 National Winter Maintenance
- Peer
- Basic RWIS
- Best for M
- Cold Road
- Deer Road

Aurora membership

Full members program and into an effort for funding and support and also related activities. Membership is open to all public sector transportation-related agencies around the globe as of 2011.

Annual meeting presentation information and access to membership documents are generally available through member email and a combination that are controlled by an Aurora program administrator to be kept safe.

Members:

- Alaska Department of Transportation & Public Facilities
- Illinois Department of Transportation
- Ohio Department of Transportation
- Michigan Department of Transportation
- New York State Department of Transportation
- Florida Department of Transportation
- North Dakota Department of Transportation
- Ohio Department of Transportation
- Delaware Department of Transportation
- Pennsylvania Department of Transportation
- South Carolina Department of Transportation
- Utah Department of Transportation
- Virginia Department of Transportation
- Wisconsin Department of Transportation

Associate members:

- Federal Highway Administration - Road Weather Management Team
- National Oceanic and Atmospheric Administration - National Weather Service Forecast Systems Laboratory
- National Center for Atmospheric Research
- Department of Energy - National Energy Research Scientific Center
- State University of New York
- University of Colorado
- University of Illinois
- University of Michigan
- University of Wisconsin - Madison
- University of Wisconsin - Milwaukee
- Virginia Polytechnic Institute and State University

Aurora

working to advance road weather information systems technology

to the current state of road weather information systems technology. The extensive information-sharing opportunities provided by Aurora help drivers and road agencies address their RWIS and winter maintenance duties.

Join Aurora and . . .

- multiply your agency's financial resources to address its most pressing RWIS-related challenges.
- help set the agenda for collaborative research, development, and deployment of road and weather information systems (RWIS).
- develop relationships with national and international, public and private leaders in RWIS equipment, decision support systems, standards, and training.

www.aurora-program.org

When you face winter road maintenance challenges, who can you turn to?

Want to be better prepared when a holiday storm suddenly crosses roads with black ice?

How can your quality get new from operators to be ahead of the holiday?

Where can you get needed information to address about collaborative planning, equipment, and training to help you meet the challenges of winter road maintenance?

For help in these situations and more, turn to these programs:

Snow and Ice Cooperative Program (SICOP), Aurora, and Clear Roads!

How can these organizations help you? Many organizations have been involved in joint programs to address your problems. The new online knowledge base sponsored by Aurora and Clear Roads is a resource that provides a wealth of information to help you manage the winter. You'll find information on how to use the new online knowledge base to help you manage the winter. You'll find information on how to use the new online knowledge base to help you manage the winter. You'll find information on how to use the new online knowledge base to help you manage the winter.

And you can help them:

- Help develop winter maintenance programs for local, state, and federal agencies.
- Participate in National Winter Maintenance Peer Exchange.
- Meet regularly via video conference and in person to exchange best practices, new ideas, program information, etc.
- Bring ideas to the table to help you address winter maintenance problems that need more support.
- Attend winter maintenance programs that need more support.

Does one of these programs sound like a good fit for your agency? For more information, see the program website or contact the program manager.

Members of the program are the Snow and Ice Cooperative Program, the Aurora and Clear Roads program, and the National Winter Maintenance Peer Exchange. The program is a joint effort of the Snow and Ice Cooperative Program, the Aurora and Clear Roads program, and the National Winter Maintenance Peer Exchange. The program is a joint effort of the Snow and Ice Cooperative Program, the Aurora and Clear Roads program, and the National Winter Maintenance Peer Exchange.