Maintenance Decision Support System
Stakeholder Meeting #9
18-19 September 2007

Clarus Initiative Coordinating Committee Meeting #5
20-21 September 2007

National Weather Service Training Center, Kansas City, MO

FHWA Host: Paul Pisano, Team Leader, Road Weather Management
NOAA Host: Jim O’Sullivan, Manager, NWS Surface Weather Program
Welcome

The Federal Highway Administration (FHWA) Road Weather Management Program and the National Oceanic and Atmospheric Administration (NOAA) Surface Weather Program welcome you to Kansas City for the 2007 Maintenance Decision Support System (MDSS) and Clarus Initiative Coordinating Committee (ICC) Meetings. Over 100 stakeholders will participate in the meetings with representation from 31 states (Figure 1), 6 countries and 31 different corporations and universities. This diverse community and the continued interest in the programs help to make both of these activities a success.

Figure 1 – Participation in the 2007 MDSS and Clarus Stakeholder Meetings
Meeting Logistics

NOAA’s National Weather Service Training Center is the meeting venue for the 2007 MDSS and Clarus stakeholder meetings. Within 0.7 miles from the Training Center, there are a variety of eating establishments (Figure 2).

- The Embassy Suites has a full service restaurant called the “Fountain Court” which serves lunch and dinner daily.
- There is a strip mall within a 10 minute walk from the Training Center that has several restaurants with cuisine ranging from Chinese and BBQ to Deli.
- On the west side of I-29, there is a Wendy’s, Cracker Barrel, Waffle House and Ruby Tuesday.

One exit south on I-29 (exit 9B) is the Zona Rosa Shopping Center which has a larger variety of restaurants ranging from Mexican, Indian and Italian to Chinese and BBQ.

Figure 2 – Eating establishments within walking distance of the Training Center

Estimated Walking Times (one way)
- Training Center to Homewood 5 min
- Training Center to Embassy 10 min
- Training Center to Strip Mall 10 min
- Training Center to Wendy’s or Drury Inn 15-20 min

Several staff vehicles will be available for transporting participants during lunch and beginning/end of the day. The Drury Inn van will assist on an as needed basis.
Training Center Layout

The NWS Training Center actually houses three different NOAA activities. The Training Center contains classrooms and labs for training NWS forecasters and electronics technicians. The NWS Central Region Headquarters provides support to a large portion of the central and northern tier states in the continental U.S. The Aviation Weather Center (AWC) is part of NOAA’s National Centers for Environmental Prediction. The AWC is responsible for aviation forecasts and warnings for a large part of this hemisphere. The AWC is located in a segregated portion of the facility and cannot be accessed using visitor badges. In general, MDSS and Clarus stakeholders should strive to stay within the red dashed area denoted in Figure 3.

Figure 3 – Layout of the NWS Training Center

Restrooms are located just outside the auditorium and by the break room. The break room has vending machines for beverages and snacks. The smoking area is located on a patio which is only accessible through the break room. There is a banner over the break room door that contains a 4 digit code. You must remember this code to operate a keypad to regain access to the building from the smoking area.
Roster of Attendees

State DOTs and Public Sector Agencies

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smithson</td>
<td>Leland</td>
<td><a href="mailto:Leland.Smithson@dot.iowa.gov">Leland.Smithson@dot.iowa.gov</a></td>
</tr>
<tr>
<td>Stickel</td>
<td>Jack</td>
<td><a href="mailto:jack.stickel@alaska.gov">jack.stickel@alaska.gov</a></td>
</tr>
<tr>
<td>Anderle</td>
<td>Phillip</td>
<td><a href="mailto:Phillip.Anderle@dot.state.co.us">Phillip.Anderle@dot.state.co.us</a></td>
</tr>
<tr>
<td>Kennedy</td>
<td>Pat</td>
<td><a href="mailto:william.kennedy@ci.denver.co.us">william.kennedy@ci.denver.co.us</a></td>
</tr>
<tr>
<td>Koonar</td>
<td>Awtar</td>
<td><a href="mailto:Awtar.Koonar@ec.gc.ca">Awtar.Koonar@ec.gc.ca</a></td>
</tr>
<tr>
<td>Pierce</td>
<td>Randy</td>
<td><a href="mailto:Randy.Pierce@dot.state.fl.us">Randy.Pierce@dot.state.fl.us</a></td>
</tr>
<tr>
<td>Koeberlein</td>
<td>Bob</td>
<td><a href="mailto:Robert.Koeberlein@itd.idaho.gov">Robert.Koeberlein@itd.idaho.gov</a></td>
</tr>
<tr>
<td>Kernan</td>
<td>Dean</td>
<td><a href="mailto:Paul.Kernan@illinois.gov">Paul.Kernan@illinois.gov</a></td>
</tr>
<tr>
<td>McClellan</td>
<td>Tony</td>
<td><a href="mailto:tmcclellan@indot.in.gov">tmcclellan@indot.in.gov</a></td>
</tr>
<tr>
<td>Belter</td>
<td>Dennis</td>
<td><a href="mailto:Dbelter@indot.in.gov">Dbelter@indot.in.gov</a></td>
</tr>
<tr>
<td>Dowd</td>
<td>Jim</td>
<td><a href="mailto:Jim.Dowd@dot.iowa.gov">Jim.Dowd@dot.iowa.gov</a></td>
</tr>
<tr>
<td>Greenfield</td>
<td>Tina</td>
<td><a href="mailto:Tina.Greenfield@dot.iowa.gov">Tina.Greenfield@dot.iowa.gov</a></td>
</tr>
<tr>
<td>Hall</td>
<td>Ron</td>
<td><a href="mailto:Rhall@ksdot.org">Rhall@ksdot.org</a></td>
</tr>
<tr>
<td>Carttar</td>
<td>Peter</td>
<td><a href="mailto:Carttar@ksdot.org">Carttar@ksdot.org</a></td>
</tr>
<tr>
<td>Adams</td>
<td>Clay</td>
<td><a href="mailto:Clay.Adams@ksdot.org">Clay.Adams@ksdot.org</a></td>
</tr>
<tr>
<td>West</td>
<td>Randy</td>
<td><a href="mailto:Randy.West@ksdot.org">Randy.West@ksdot.org</a></td>
</tr>
<tr>
<td>Moritz</td>
<td>Jerry</td>
<td><a href="mailto:Jerry.Moritz@ksdot.org">Jerry.Moritz@ksdot.org</a></td>
</tr>
<tr>
<td>Hrenak</td>
<td>John</td>
<td><a href="mailto:John.Hrenak@ksdot.org">John.Hrenak@ksdot.org</a></td>
</tr>
<tr>
<td>Koopman</td>
<td>Scott</td>
<td><a href="mailto:Scott.Koopman@ksdot.org">Scott.Koopman@ksdot.org</a></td>
</tr>
<tr>
<td>Rissky</td>
<td>Roy</td>
<td><a href="mailto:Roy.Rissky@ksdot.org">Roy.Rissky@ksdot.org</a></td>
</tr>
<tr>
<td>Vogel</td>
<td>Jaci</td>
<td><a href="mailto:Jaci.Vogel@ksdot.org">Jaci.Vogel@ksdot.org</a></td>
</tr>
<tr>
<td>Cunningham</td>
<td>Tim</td>
<td><a href="mailto:Tim.Cunningham@ksdot.org">Tim.Cunningham@ksdot.org</a></td>
</tr>
<tr>
<td>Cornett</td>
<td>David</td>
<td><a href="mailto:davidp.cornett@ky.gov">davidp.cornett@ky.gov</a></td>
</tr>
<tr>
<td>Geaumont</td>
<td>Randy</td>
<td><a href="mailto:Randy.Geaumont@maine.gov">Randy.Geaumont@maine.gov</a></td>
</tr>
<tr>
<td>Lipnick</td>
<td>Marc</td>
<td><a href="mailto:Mlipnick@sha.state.md.us">Mlipnick@sha.state.md.us</a></td>
</tr>
<tr>
<td>Croze</td>
<td>Tim</td>
<td><a href="mailto:crozet@michigan.gov">crozet@michigan.gov</a></td>
</tr>
<tr>
<td>Pape</td>
<td>Curt</td>
<td><a href="mailto:Curt.Pape@dot.state.mn.us">Curt.Pape@dot.state.mn.us</a></td>
</tr>
<tr>
<td>Jackson</td>
<td>Tim</td>
<td><a href="mailto:Timothy.Jackson@modot.mo.gov">Timothy.Jackson@modot.mo.gov</a></td>
</tr>
<tr>
<td>Swartz</td>
<td>Jon</td>
<td><a href="mailto:joswartz@mt.gov">joswartz@mt.gov</a></td>
</tr>
<tr>
<td>Bousliman</td>
<td>Theresa</td>
<td><a href="mailto:tbousliman@mt.gov">tbousliman@mt.gov</a></td>
</tr>
<tr>
<td>Mattison</td>
<td>Michael</td>
<td><a href="mailto:Michael.Mattison@dar.state.ne.us">Michael.Mattison@dar.state.ne.us</a></td>
</tr>
<tr>
<td>Guay</td>
<td>Ron</td>
<td><a href="mailto:RonGuay@dar.state.ne.us">RonGuay@dar.state.ne.us</a></td>
</tr>
<tr>
<td>Inda</td>
<td>Denise</td>
<td><a href="mailto:dinda@dot.state.nv.us">dinda@dot.state.nv.us</a></td>
</tr>
<tr>
<td>Mitchell</td>
<td>Pamela</td>
<td><a href="mailto:Pmitchell@dot.state.nh.us">Pmitchell@dot.state.nh.us</a></td>
</tr>
<tr>
<td>Bowlby</td>
<td>David</td>
<td><a href="mailto:David.Bowlby@dot.state.nj.us">David.Bowlby@dot.state.nj.us</a></td>
</tr>
<tr>
<td>Lashmet</td>
<td>Mike</td>
<td><a href="mailto:mlashmet@dot.state.ny.us">mlashmet@dot.state.ny.us</a></td>
</tr>
<tr>
<td>Loftus</td>
<td>Michael</td>
<td><a href="mailto:Michael_Loftus@thruway.state.ny.us">Michael_Loftus@thruway.state.ny.us</a></td>
</tr>
<tr>
<td>Ryen</td>
<td>Ed</td>
<td><a href="mailto:eryen@nd.gov">eryen@nd.gov</a></td>
</tr>
<tr>
<td>Darr</td>
<td>Brad</td>
<td><a href="mailto:bdarr@nd.gov">bdarr@nd.gov</a></td>
</tr>
<tr>
<td>Roeder</td>
<td>Scott</td>
<td><a href="mailto:Scott.Roeder@dot.state.oh.us">Scott.Roeder@dot.state.oh.us</a></td>
</tr>
</tbody>
</table>
MDSS/Clarus Briefing Package

Calvillo Alex Oklahoma DOT Acalvillo@odot.org
Hughes Dave Pennsylvania DOT dahughes@state.pa.us
Hoch Brandon Plymouth State University/NHDOT bhoch@plymouth.edu
Huft Dave South Dakota DOT Dave.Huft@state.sd.us
Sims Tammy Texas DOT Tsims@dot.state.tx.us
Patterson Ralph Utah DOT RalphPatterson@utah.gov
Williams Allen Virginia DOT Allen.Williams@vdot.virginia.gov
Martin Gene Virginia DOT E.Martin@vdot.virginia.gov
Neeley Matt Washington State DOT NeeleyM@wsdot.wa.gov
Simonsen Paul Washington State DOT SimonsP@WSDOT.wa.gov
Adams Mike Wisconsin DOT michael.adams@dot.state.wi.us
Frazier Jeff Wyoming DOT Jeff.Frazier@dot.state.wy.us

Private Sector/Academia
Allen Shawn AMEC shawn.allen@amec.com
Mathis Albert AnyData AG (Switzerland) albert.mathis@anydata.ch
Potter Gregg Anything Weather gregg@anythingweather.com
Seidl Werner ASFiNAG (Austria) Werner.Seidl@asfinag.at
Dreisewerd Bob Baron Services bob.dreisewerd@baronservices.com
Gopalakrishna Deepak Battelle gopalakrishnad@battelle.org
Gorse Bill Boschung America wrg@boschungamerica.com
Brodard Pierre-Alain Boschung Mecatronic pierre-alain.brodard@boschung.com
Krechmer Dan Cambridge Systematics dkrechmer@camsys.com
Block Jim DTN/Meteorlogix Jim.Block@dtn.com
Foerster Jim DTN/Meteorlogix Jim.Foerster@dtn.com
Gilmer Phil DTN/Meteorlogix Phil.Gilmer@dtn.com
DeLozier Edward E-470 Public Highway Authority Edelozier@e-470.com
Gordon Ken E-470 Public Highway Authority Kgordon@e-470.com
Gowin Terry E-470 Public Highway Authority Tgowin@e-470.com
Stenz John FORCE America jstenz@forceamerica.com
Swenor Sue High Sierra Electronics sue@highsierraelectronics.com
Doherty Jack International Road Technologies dohertyjad@comcast.net
Groeneweg Kevin IWAPI, Inc. kevin@iwapi.com
Rennie Chris IWAPI, Inc. chris@iwapi.com
Handman Art KMJ Consulting, Inc. alhandman@hotmail.com
Hart Bob Meridian Environmental Technology bobhart@meridian-enviro.com
Mewes John Meridian Environmental Technology jmewes@meridian-enviro.com
MDSS/Clarus Briefing Package

<table>
<thead>
<tr>
<th>Name</th>
<th>First Name</th>
<th>Last Name</th>
<th>Affiliation</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Osborne</td>
<td>Leon</td>
<td>Meridian Environmental Technology</td>
<td><a href="mailto:leono@meridian-enviro.com">leono@meridian-enviro.com</a></td>
<td></td>
</tr>
<tr>
<td>Osborne</td>
<td>Kathy</td>
<td>Meridian Environmental Technology</td>
<td><a href="mailto:kathyo@meridian-enviro.com">kathyo@meridian-enviro.com</a></td>
<td></td>
</tr>
<tr>
<td>Chein</td>
<td>Steven</td>
<td>New Jersey Institute of Technology</td>
<td><a href="mailto:chien@adm.njit.edu">chien@adm.njit.edu</a></td>
<td></td>
</tr>
<tr>
<td>Meegoda</td>
<td>Jay</td>
<td>New Jersey Institute of Technology</td>
<td><a href="mailto:meegoda@njit.edu">meegoda@njit.edu</a></td>
<td></td>
</tr>
<tr>
<td>McPherson</td>
<td>Renee</td>
<td>Oklahoma Climate Survey</td>
<td><a href="mailto:renee@mesonet.org">renee@mesonet.org</a></td>
<td></td>
</tr>
<tr>
<td>Perchanok</td>
<td>Max</td>
<td>Ontario Ministry of Transportation</td>
<td><a href="mailto:Max.Perchanok@ontario.ca">Max.Perchanok@ontario.ca</a></td>
<td></td>
</tr>
<tr>
<td>Warner</td>
<td>Jeff</td>
<td>Preco Electronics</td>
<td><a href="mailto:JWarner@preco.com">JWarner@preco.com</a></td>
<td></td>
</tr>
<tr>
<td>Freshley</td>
<td>Jamie</td>
<td>Quixote Transportation Technologies</td>
<td><a href="mailto:Jamie.Freshley@quixotecorp.com">Jamie.Freshley@quixotecorp.com</a></td>
<td></td>
</tr>
<tr>
<td>Scott</td>
<td>Melanie</td>
<td>Quixote Transportation Technologies</td>
<td><a href="mailto:Melanie.Scott@quixotecorp.com">Melanie.Scott@quixotecorp.com</a></td>
<td></td>
</tr>
<tr>
<td>Tarleton</td>
<td>Jon</td>
<td>Quixote Transportation Technologies</td>
<td><a href="mailto:Jon.Tarleton@quixotecorp.com">Jon.Tarleton@quixotecorp.com</a></td>
<td></td>
</tr>
<tr>
<td>Lasley</td>
<td>John</td>
<td>SAIC</td>
<td><a href="mailto:John.A.Lasley@saic.com">John.A.Lasley@saic.com</a></td>
<td></td>
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<td>Deasy</td>
<td>Frank</td>
<td>Telvent Farradyne/FDOT</td>
<td><a href="mailto:Frank.Deasy@dot.state.fl.us">Frank.Deasy@dot.state.fl.us</a></td>
<td></td>
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<tr>
<td>Middleton</td>
<td>Dan</td>
<td>Texas Transportation Institute</td>
<td><a href="mailto:D-Middleton@tamu.edu">D-Middleton@tamu.edu</a></td>
<td></td>
</tr>
<tr>
<td>Strebe</td>
<td>Kathy</td>
<td>The Weather Channel</td>
<td><a href="mailto:Kstrebe@weather.com">Kstrebe@weather.com</a></td>
<td></td>
</tr>
<tr>
<td>Hershey</td>
<td>Ben</td>
<td>University of North Dakota</td>
<td><a href="mailto:bhershey@rwic.und.edu">bhershey@rwic.und.edu</a></td>
<td></td>
</tr>
<tr>
<td>Hanson</td>
<td>Jennifer</td>
<td>University of North Dakota</td>
<td><a href="mailto:jlhanson@rwic.und.edu">jlhanson@rwic.und.edu</a></td>
<td></td>
</tr>
<tr>
<td>Bridge</td>
<td>Paul</td>
<td>Vaisala, Inc.</td>
<td><a href="mailto:Paul.Bridge@vaisala.com">Paul.Bridge@vaisala.com</a></td>
<td></td>
</tr>
<tr>
<td>Bullock</td>
<td>Dave</td>
<td>Vaisala, Inc.</td>
<td><a href="mailto:Dave.Bullock@vaisala.com">Dave.Bullock@vaisala.com</a></td>
<td></td>
</tr>
<tr>
<td>Brown</td>
<td>Jack</td>
<td>VANUS, Inc.</td>
<td><a href="mailto:jbrown@vanusinc.com">jbrown@vanusinc.com</a></td>
<td></td>
</tr>
<tr>
<td>Vieux</td>
<td>Jean</td>
<td>Vieux, Inc.</td>
<td><a href="mailto:jean.vieux@vieuxinc.com">jean.vieux@vieuxinc.com</a></td>
<td></td>
</tr>
<tr>
<td>Boselly</td>
<td>Ed</td>
<td>Weather Solutions Group</td>
<td><a href="mailto:weathersolutions@prodigy.net">weathersolutions@prodigy.net</a></td>
<td></td>
</tr>
</tbody>
</table>

**FHWA and Support Staff**

<table>
<thead>
<tr>
<th>Name</th>
<th>First Name</th>
<th>Last Name</th>
<th>Agency/Division</th>
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</tr>
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<tbody>
<tr>
<td>Kennedy</td>
<td>Pat</td>
<td></td>
<td>FHWA</td>
<td><a href="mailto:Pat.Kennedy@dot.gov">Pat.Kennedy@dot.gov</a></td>
</tr>
<tr>
<td>Pisano</td>
<td>Paul</td>
<td></td>
<td>FHWA</td>
<td><a href="mailto:Paul.Pisano@dot.gov">Paul.Pisano@dot.gov</a></td>
</tr>
<tr>
<td>Hunt</td>
<td>Bruce</td>
<td></td>
<td>FHWA SD Division</td>
<td><a href="mailto:Bruce.Hunt@fhwa.dot.gov">Bruce.Hunt@fhwa.dot.gov</a></td>
</tr>
<tr>
<td>Murphy</td>
<td>Ray</td>
<td></td>
<td>FHWA Resource Center</td>
<td><a href="mailto:Ray.Murphy@fhwa.dot.gov">Ray.Murphy@fhwa.dot.gov</a></td>
</tr>
<tr>
<td>Alva</td>
<td>Bob</td>
<td></td>
<td>FHWA KS Division</td>
<td><a href="mailto:Robert.Alva@fhwa.dot.gov">Robert.Alva@fhwa.dot.gov</a></td>
</tr>
<tr>
<td>Rossetti</td>
<td>Mike</td>
<td></td>
<td>FHWA/Volpe</td>
<td><a href="mailto:Michael.A.Rossetti@volpe.dot.gov">Michael.A.Rossetti@volpe.dot.gov</a></td>
</tr>
<tr>
<td>Boyce</td>
<td>Brenda</td>
<td></td>
<td>Mixon/Hill</td>
<td><a href="mailto:Brenda.Boyce@mixonhill.com">Brenda.Boyce@mixonhill.com</a></td>
</tr>
<tr>
<td>Mahoney</td>
<td>Bill</td>
<td></td>
<td>NCAR</td>
<td><a href="mailto:mahoney@ucar.edu">mahoney@ucar.edu</a></td>
</tr>
<tr>
<td>Petty</td>
<td>Kevin</td>
<td></td>
<td>NCAR</td>
<td><a href="mailto:kpetty@ucar.edu">kpetty@ucar.edu</a></td>
</tr>
<tr>
<td>O'Sullivan</td>
<td>Jim</td>
<td></td>
<td>NOAA/National Weather Service</td>
<td><a href="mailto:jim.osullivan@noaa.gov">jim.osullivan@noaa.gov</a></td>
</tr>
<tr>
<td>Goodwin</td>
<td>Lynette</td>
<td></td>
<td>Noblis</td>
<td><a href="mailto:Lynette.Goodwin@noblis.org">Lynette.Goodwin@noblis.org</a></td>
</tr>
<tr>
<td>Stern</td>
<td>Andy</td>
<td></td>
<td>Noblis</td>
<td><a href="mailto:astern@noblis.org">astern@noblis.org</a></td>
</tr>
<tr>
<td>Costello</td>
<td>Pete</td>
<td></td>
<td>PBS&amp;J</td>
<td><a href="mailto:petecostello@pbsj.com">petecostello@pbsj.com</a></td>
</tr>
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# Maintenance Decision Support System (MDSS)

**Stakeholder Meeting #9 – Agenda**  
NWS Training Center, Kansas City, MO  
September 18-19, 2007

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**MDSS Day 1 - Tuesday, September 18, 2007**

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<td>8:30 AM</td>
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<td>Session 1 – Opening Session &amp; Overview</td>
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<td><strong>Session Chair:</strong> Paul Pisano</td>
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<td>8:30 AM</td>
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<td>Paul Pisano, FHWA</td>
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<td>• Federal Highway Administration</td>
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<td>• NOAA/National Weather Service</td>
<td>Jim O’Sullivan, NWS</td>
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<td>• Facilities/Logistics</td>
<td>Lynn Maximuk, NWS</td>
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<td>• Stakeholder introductions</td>
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<td>8:45 AM</td>
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<td>The MDSS Program</td>
<td>Paul Pisano, FHWA</td>
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<td>Federal Prototype Activities</td>
<td>Kevin Petty, NCAR</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Status of MDSS Release 5.0</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>• Denver demonstration</td>
<td></td>
</tr>
<tr>
<td>9:35 AM</td>
<td>15 min</td>
<td>Session 2 – T² - Getting Out the Word</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Session Chair:</strong> Pat Kennedy</td>
<td></td>
</tr>
<tr>
<td>9:35 AM</td>
<td>15 min</td>
<td>Federal MDSS RoadShow Update</td>
<td>Ray Murphy, FHWA</td>
</tr>
<tr>
<td>9:50 AM</td>
<td>15 min</td>
<td>AASHTO TIG MDSS Activities</td>
<td>Dave Huft, SDDOT</td>
</tr>
<tr>
<td>10:05 AM</td>
<td>20 min</td>
<td>Break/Light Refreshments</td>
<td></td>
</tr>
<tr>
<td>10:25 AM</td>
<td>15 min</td>
<td>Status of the MDSS Pooled-Fund</td>
<td>Dave Huft, SDDOT</td>
</tr>
<tr>
<td>10:40 AM</td>
<td>15 min</td>
<td>MDSS Deployment Guide Update</td>
<td>Ed Boselly, SAIC</td>
</tr>
<tr>
<td>11:00 AM</td>
<td>15 min</td>
<td>Maine DOT using DTN</td>
<td>Deepak Gopalakrishna, Battelle</td>
</tr>
<tr>
<td>11:15 AM</td>
<td>15 min</td>
<td>Pooled-Fund States using Meridian</td>
<td>Dave Huft, SDDOT</td>
</tr>
<tr>
<td>11:30 AM</td>
<td>15 min</td>
<td>City/County of Denver using Federal Prototype</td>
<td>Deepak Gopalakrishna, Battelle</td>
</tr>
<tr>
<td>11:45 AM</td>
<td>15 min</td>
<td>Utah DOT Cost/Benefit Analysis</td>
<td>Ralph Patterson, UDOT</td>
</tr>
<tr>
<td>Noon</td>
<td>75 min</td>
<td>Lunch (On your own)</td>
<td></td>
</tr>
<tr>
<td>1:15 PM</td>
<td>30 min</td>
<td>Moderated Discussion</td>
<td>Paul Pisano, FHWA</td>
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</table>
### Session 4 – Interactive Discussion: Experiences with MDSS from Last Winter Season
Session Chair: Andy Stern

<table>
<thead>
<tr>
<th>Time</th>
<th>Duration</th>
<th>Activity Description</th>
<th>Participant</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:45 PM</td>
<td>60 min</td>
<td>Invited Participants with Audience Participation</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Special International Guests</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Werner Seidl, ASFiNAG, Austria’s use of MDSS (10 min)</td>
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<tr>
<td></td>
<td></td>
<td>• Albert Mathis, AnyData AG Switzerland, Traffic Information and MDSS (10 min)</td>
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### Session 5 – Private Sector Forum: New MDSS-associated Technologies
Session Chair: Ray Murphy

<table>
<thead>
<tr>
<th>Time</th>
<th>Duration</th>
<th>Activity Description</th>
<th>Participant</th>
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</thead>
<tbody>
<tr>
<td>2:50 PM</td>
<td>10 min</td>
<td>Quixote Transportation Technologies/SSI</td>
<td>Jon Tarleton</td>
</tr>
<tr>
<td>3:00 PM</td>
<td>10 min</td>
<td>IWAPI, Inc.</td>
<td>Kevin Groeneweg</td>
</tr>
<tr>
<td>3:10 PM</td>
<td>10 min</td>
<td>Meridian Environmental Technology</td>
<td>Leon Osborne</td>
</tr>
<tr>
<td>3:20 PM</td>
<td>10 min</td>
<td>DTN/Meteorlogix</td>
<td>Phil Gilmer</td>
</tr>
<tr>
<td>3:30 PM</td>
<td>20 min</td>
<td><strong>Break/Light Refreshments</strong></td>
<td></td>
</tr>
<tr>
<td>3:50 PM</td>
<td>10 min</td>
<td>International Road Technologies</td>
<td>Jack Doherty</td>
</tr>
<tr>
<td>4:10 PM</td>
<td>10 min</td>
<td>Boschung America</td>
<td>Bill Gorse</td>
</tr>
</tbody>
</table>
| 4:20 PM | 30 min   | Surface Transportation Weather Research Needs | Kevin Petty, NCAR  
|         |          |                                          | Leon Osborne, UND                  |
| 4:50 PM |          | Closing comments/Announcements          | Paul Pisano, FHWA                  |

### Vendor Sponsored Activity

DTN/Meteorlogix invites everyone to their hospitality suite for networking and social mixing. Complimentary drinks and appetizers will be available.

**When:** Tuesday, 18 Sept, 2007 from 5:30PM-7:30PM  
**Where:** Salon B & C, Embassy Suites Hotel. A van will be available to assist with transportation.

**Questions:** Call 800-485-4000, ext 6465 or speak with any of the DTN representatives who will be attending the meeting.
<table>
<thead>
<tr>
<th>Times</th>
<th>Len</th>
<th>Activity</th>
<th>Participant</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 AM</td>
<td>30 min</td>
<td>Light Refreshments</td>
<td></td>
</tr>
<tr>
<td>8:30 AM</td>
<td>30 min</td>
<td><strong>Kick-off Discussion: Is MDSS meeting your needs?</strong></td>
<td>Paul Pisano, FHWA</td>
</tr>
<tr>
<td>9:05 AM</td>
<td>30 min</td>
<td><strong>Session 6 – Educating the Consumer</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Session Chair: Andy Stern</td>
<td></td>
</tr>
<tr>
<td>9:35 AM</td>
<td>40 min</td>
<td>Decision Support Systems: Meeting Consumer Expectations - Part 2</td>
<td>Bill Mahoney, NCAR Leon Osborne, UND</td>
</tr>
<tr>
<td>10:15 AM</td>
<td>20 min</td>
<td><strong>Break/Light Refreshments</strong></td>
<td></td>
</tr>
<tr>
<td>10:35 AM</td>
<td>40 min</td>
<td>Panel Discussion: Issues in Tactical Weather Support (10 min per speaker)</td>
<td>Kevin Petty, NCAR John Mewes, Meridian Jim Block, DTN Pierre-Alain Brodard, Boshung Mecatronic</td>
</tr>
<tr>
<td>11:15 AM</td>
<td>45 min</td>
<td>Moderated Discussion</td>
<td>Andy Stern, Noblis</td>
</tr>
<tr>
<td>Noon</td>
<td>75 min</td>
<td><strong>Lunch (on your own)</strong></td>
<td></td>
</tr>
<tr>
<td>1:15 PM</td>
<td>15 min</td>
<td><strong>Session 7 – Maintenance &amp; Operations</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Decision Support System (MODSS)</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Session Chair: Pat Kennedy</td>
<td></td>
</tr>
<tr>
<td>1:30 PM</td>
<td>15 min</td>
<td>Program Overview</td>
<td>Pat Kennedy, FHWA</td>
</tr>
<tr>
<td>1:45 PM</td>
<td>15 min</td>
<td>MODSS Concept of Operations</td>
<td>Kevin Petty, NCAR</td>
</tr>
<tr>
<td>2:00 PM</td>
<td>15 min</td>
<td>MODSS: Next Steps</td>
<td>Paul Pisano, FHWA</td>
</tr>
<tr>
<td>2:15 PM</td>
<td>30 min</td>
<td>Moderated Discussion</td>
<td>Pat Kennedy, FHWA</td>
</tr>
<tr>
<td>2:45 PM</td>
<td>20 min</td>
<td><strong>Break/Light Refreshments</strong></td>
<td></td>
</tr>
<tr>
<td>3:05 PM</td>
<td>15 min</td>
<td>Clarus Initiative Update</td>
<td>Pat Kennedy, FHWA</td>
</tr>
<tr>
<td>3:20 PM</td>
<td>15 min</td>
<td>Vehicle Infrastructure Integration (VII) Update</td>
<td>Andy Stern, Noblis</td>
</tr>
<tr>
<td>3:35 PM</td>
<td>10 min</td>
<td>Summary from the National Symposium on Surface Transportation Weather</td>
<td>Ray Murphy, FHWA</td>
</tr>
<tr>
<td>3:45 PM</td>
<td>20 min</td>
<td>NOAA Surface Weather Program</td>
<td>Jim O'Sullivan, NWS</td>
</tr>
<tr>
<td>4:05 PM</td>
<td>25 min</td>
<td>FHWA Road Weather Management Update</td>
<td>Paul Pisano, FHWA</td>
</tr>
<tr>
<td>4:30 PM</td>
<td>15 min</td>
<td>Closing Remarks</td>
<td>Paul Pisano, FHWA</td>
</tr>
<tr>
<td>4:45 PM</td>
<td></td>
<td>MDSS Meeting Adjourns</td>
<td></td>
</tr>
</tbody>
</table>
## Clarus Initiative Coordinating Committee (ICC) Meeting #5

NWS Training Center, Kansas City, MO  
September 20-21, 2007

### Clarus Day 1 - Thursday, September 20, 2007

<table>
<thead>
<tr>
<th>Times</th>
<th>Len</th>
<th>Activity</th>
<th>Participant</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 AM</td>
<td>30 min</td>
<td>Registration/Light Refreshments</td>
<td></td>
</tr>
<tr>
<td><strong>Session 1 – Opening Session &amp; Overview</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8:30 AM</td>
<td>25 min</td>
<td>Welcome</td>
<td>Paul Pisano, FHWA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Federal Highway Administration</td>
<td>Jim O’Sullivan, NWS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• NOAA/National Weather Service</td>
<td>Lynn Maximuk, NWS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Facilities/Logistics</td>
<td>Andy Stern, Noblis</td>
</tr>
<tr>
<td>8:55 AM</td>
<td>35 min</td>
<td>The <em>Clarus</em> Initiative</td>
<td>Paul Pisano, FHWA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• ICC member introductions</td>
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<tr>
<td></td>
<td></td>
<td>• Initiative briefing – “The Vision”</td>
<td></td>
</tr>
<tr>
<td><strong>Session 2 – Clarus Development Status</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9:35 AM</td>
<td>15 min</td>
<td><em>Clarus</em> System Development</td>
<td>Brenda Boyce, Mixon/Hill</td>
</tr>
<tr>
<td>9:50 AM</td>
<td>15 min</td>
<td>Quality Checking Algorithm Enhancements</td>
<td>Andy Stern, Noblis</td>
</tr>
<tr>
<td>10:05 AM</td>
<td>25 min</td>
<td>Tutorial on <em>Clarus</em> Interface Capabilities</td>
<td>Brenda Boyce, Mixon/Hill</td>
</tr>
<tr>
<td>10:30 AM</td>
<td>20 min</td>
<td><strong>Break/Light Refreshments</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Session 3 – Regional Demonstration</strong></td>
<td></td>
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<td></td>
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<tr>
<td>10:50 AM</td>
<td>15 min</td>
<td>Phase 1 Overview – Concept of Operations Development</td>
<td>Pat Kennedy, FHWA</td>
</tr>
<tr>
<td>11:05 AM</td>
<td>15 min</td>
<td>Team 1 – Aurora Team</td>
<td>Tina Greenfield, IADOT</td>
</tr>
<tr>
<td>11:20 AM</td>
<td>15 min</td>
<td>Team 2 – ALCAN Team</td>
<td>Jack Stickel, AKDOT &amp; PF</td>
</tr>
<tr>
<td>11:35 AM</td>
<td>15 min</td>
<td>Team 3 – Northwest Passage Team</td>
<td>Dave Huft, SDDOT</td>
</tr>
<tr>
<td>11:50 AM</td>
<td>25 min</td>
<td>Open Discussion</td>
<td></td>
</tr>
<tr>
<td>12:15 PM</td>
<td>75 min</td>
<td><strong>Lunch (on your own)</strong></td>
<td></td>
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<tr>
<td><strong>Session 3 - Continued</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>1:30 PM</td>
<td>20 min</td>
<td>Phase 2 Overview:</td>
<td>Paul Pisano, FHWA</td>
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<tr>
<td></td>
<td></td>
<td>• Connection Incentive Program (CIP)</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>• How to participate in the CIP</td>
<td></td>
</tr>
<tr>
<td>1:50 PM</td>
<td>15 min</td>
<td>Metadata refresher</td>
<td>Brenda Boyce, Mixon/Hill</td>
</tr>
<tr>
<td>2:05 PM</td>
<td>10 min</td>
<td>Phase 3 Overview - Implementation</td>
<td>Paul Pisano, FHWA</td>
</tr>
<tr>
<td>2:15 PM</td>
<td>30 min</td>
<td>Open Discussion</td>
<td>Pat Kennedy, FHWA</td>
</tr>
</tbody>
</table>
Vendor Sponsored Activity

Quixote Transportation Technologies (QTT)/Surface Systems (SSI) invites everyone to their hospitality suite for networking and social mixing. Complimentary drinks and appetizers will be available.

When: Thursday, 20 Sept, 2007 from 6:00PM-8:00PM
Where: Ambassador Room, Embassy Suites Hotel.

Questions: Call 800-325-7226 ext530 or speak with any of the QTT representatives who will be attending the meeting.
### MDSS/Clarus Briefing Package

<table>
<thead>
<tr>
<th>Times</th>
<th>Len</th>
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<th>Participant</th>
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<tbody>
<tr>
<td>10:25 AM</td>
<td>20 min</td>
<td><strong>Break/Light Refreshments</strong></td>
<td></td>
</tr>
<tr>
<td>10:45 AM</td>
<td>15 min</td>
<td>Noblis results from summer &amp; winter vehicle studies – a precursor to VII</td>
<td>Andy Stern, Noblis</td>
</tr>
<tr>
<td>11:00 AM</td>
<td>15 min</td>
<td>Michigan DOT VII Data Use Analysis and Processing (DUAP) Program</td>
<td>Brenda Boyce, Mixon/Hill</td>
</tr>
<tr>
<td>11:15 AM</td>
<td>15 min</td>
<td>VII Application: the Weather Data Translator</td>
<td>Andy Stern, Noblis</td>
</tr>
<tr>
<td>11:30 AM</td>
<td>30 min</td>
<td>Open discussion</td>
<td>Pat Kennedy, FHWA</td>
</tr>
<tr>
<td>Noon</td>
<td>75 min</td>
<td><strong>Lunch (on your own)</strong></td>
<td></td>
</tr>
<tr>
<td>1:20 PM</td>
<td>15 min</td>
<td>ESS Siting Guidelines Validation Task</td>
<td>Brenda Boyce, Mixon/Hill</td>
</tr>
<tr>
<td>1:35 PM</td>
<td>15 min</td>
<td>Road Weather Management Performance Metrics Task</td>
<td>Leon Osborne, Meridian</td>
</tr>
<tr>
<td>1:50 PM</td>
<td>10 min</td>
<td>Closing remarks</td>
<td>Paul Pisano, FHWA</td>
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</table>

**Session 7 – Other Road Weather Activities**

Session Chair: Ray Murphy

<table>
<thead>
<tr>
<th>Times</th>
<th>Len</th>
<th>Activity</th>
<th>Participant</th>
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<tbody>
<tr>
<td>1:20 PM</td>
<td>15 min</td>
<td>ESS Siting Guidelines Validation Task</td>
<td>Brenda Boyce, Mixon/Hill</td>
</tr>
<tr>
<td>1:35 PM</td>
<td>15 min</td>
<td>Road Weather Management Performance Metrics Task</td>
<td>Leon Osborne, Meridian</td>
</tr>
<tr>
<td>1:50 PM</td>
<td>10 min</td>
<td>Closing remarks</td>
<td>Paul Pisano, FHWA</td>
</tr>
</tbody>
</table>

*Clarus Meeting adjourns by 2 PM Friday*

**Wireless Internet Instructions at the Training Center**

The NWS Training Center has wireless internet available for guests. All you need to do is look for and connect to the SONICWALL wireless network. There is no password required. There is no encryption. You will be using the wireless at your own risk. There is no security protection applied to the wireless network. Nor is there technical support provided by the Training Center.