Welcome

WELCOME
The Alaska Department of Transportation and Public Facilities would like to extend a warm welcome to beautiful Anchorage, Alaska and the 2008 National Rural ITS Conference. We promise to bring you a wide range of rural ITS topics using diverse approaches - take a technology tour while not only enjoying the beautiful scenery, but experiencing the technology first hand; join a mini-training course and you’ll get heaps of information in a short time so that you don’t miss out on other sessions; sit back and listen to professionals talk about a multitude of ITS topics; attend the biggest networking and information assembly ever at NRITS, the ITS Information Assembly! And most of all, just have fun and experience our big state!

Unique to this year’s event is the collaboration of the 2008 National Rural ITS Conference Committee with ITS America’s Public Transit and Commercial Vehicle and Freight Mobility (CVFM) Forums in developing specialty tracks — a Public Transit program track and a Commercial Vehicle Operations (CVO) program track — to run concurrently with the “main” conference track.

Whatever your interests, we hope you find this year’s event one to be remembered!

Jack Stickel, Alaska DOT&PF, NRITS 2008 Conference Co-Chair

Jill Sullivan, Alaska DOT&PF, NRITS 2008 Conference Co-Chair

SPECIAL THANKS
Planning Committee - Many individuals have come together to help make this event a success. In addition to those individuals speaking and moderating at the conference, we want to extend a special thank you to our conference planning committee:

Steve Albert, Western Transportation Institute
Margaret Carpenter, Alaska DOT&PF
Dean Deeter, Athey Creek Consultants
Laura Edwards, Alaska DOT&PF
Bill Gouse, ITS America
Chris Lane, ITS America
Ming Lee, Alaska University Transportation Center
Lisa Nelson, Telvent Farradyne
David Ridgley, ITS America
Jack Stickel, Alaska DOT&PF
Jill Sullivan, Alaska DOT&PF
Vivian Underwood, Municipality of Anchorage
Heather Young, ITS America

The following individuals assisted by reviewing abstracts:

Steve Albert, Western Transportation Institute
Stephen Bahler, HNTB Corporation
Steven Barney, Alaska DOT&PF
Frank Corrado, FHWA/Federal Lands Highway
Pete Costello, Inrix
David Crout, TriMet
Joe Finch, Michigan Department of Transportation
Doug Finlay, Speed Info
Dennis Foderberg, SEH, Inc.
Dia Gainor, Idaho EMS Bureau
Bill Gouse, ITS America
Dawn Gustafson, Michigan Department of Transportation
Larry Gruginski, Washington State Department of Transportation
Hau Hagedorn, Oregon Transportation Research and Education Consortium
Christopher Hedden, Cambridge Systematics, Inc.
Bruce Hunt, Federal Highway Administration
Chris Lane, ITS America
Jim Larsen, Ada County Highway District
Ming Lee, Alaska University Transportation Center
Bill Legg, Washington State Department of Transportation
Andrew Nichols, Rahall Transportation Institute
Paul Pisano, Federal Highway Administration
David Ridgley, ITS America
Nu Rosenbohm, Telvent
Jim Schultz, Michigan Department of Transportation
Matthew Smith, Utah Department of Transportation
Laura Stanley, Center for Automotive Safety Research
Jack Stickel, Alaska DOT&PF
Chris Strong, Western Transportation Institute
Jill Sullivan, Alaska DOT&PF
David Veneziano, Western Transportation Institute
Ron Vessey, Washington State Department of Transportation
Heather Young, ITS America

Welcome
This event would not be possible if it were not for the generosity of our conference sponsors. Thank you.

DENALI Level

ELIAS Level

FORAKER Level

FRIEND-OF-ITS Level
VENDORS

The following vendors will have displays setup in the Fore Deck of the Discovery Ballroom beginning Wednesday, September 3rd and continuing through Friday, September 5th.

**Numeric Listing**
Booth 1 - Federal Highway Administration
Booth 2 - Boschung America, LLC
Booth 3 - Western Systems
Booth 4 - RuggedCom
Booth 5 - Telvent
Booths 6 & 7 - Quixote Transportation Technologies, Inc.
Booth 8 - Adaptive Micro Systems
Booth 9 - Daktronics
Booths 10 & 11 - Aldis
Booth 12 - RouteMatch Software
Booth 13 - EIS/ISS Canada Ltd.
Booth 14 - Coral Sales Company
Booth 15 - Vaisala, Inc.
Booth 16 - Open Roads Consulting, Inc.
Booth 17 - ITS America
Booth 18 - Infotek
Booth 19 - Campbell Scientific
Booth 20 - Advanced Traffic Products
Booth 21 - Wavetronix
Booth 22 - International Road Dynamics, Inc.
Booth 23 - Kidde Aerospace & Defense
Booth 24 - Wostman & Associates
Booth 25 - High Sierra Electronics, Inc.
Booth 26 - GeoDecisions
Booth 27 - SES America, Inc.
Booth 28 - ITS Joint Program Office, USDOT
Booths 29 & 30 - Western Transportation Institute
Booth 31 - ITS Alaska/Alaska DOT&PF
Booths 32 & 33 - Intelligent Devices

**Alphabetical Listing**
Adaptive Micro Systems (Booth 8)
Advanced Traffic Products (Booth 20)
Aldis (Booths 10 & 11)
Boschung America, LLC (Booth 2)
Campbell Scientific, Inc. (Booth 19)
Coral Sales Company (Booth 14)
Daktronics, Inc. (Booth 9)
EIS/ISS Canada Ltd. (Booth 13)
Federal Highway Administration (Booth 1)
GeoDecisions (Booth 26)
High Sierra Electronics, Inc. (Booth 25)
Infotek (Booth 18)
Intelligent Devices (Booths 32 & 33)
International Road Dynamics, Inc. (Booth 22)
ITS Alaska/Alaska DOT&PF (Booth 31)
ITS America (Booth 17)
ITS Joint Program Office, USDOT (Booth 28)
Kidde Aerospace & Defense (Booth 23)
Open Roads Consulting, Inc. (Booth 16)
Quixote Transportation Technologies, Inc. (Booths 6 & 7)
RouteMatch Software (Booth 12)
RuggedCom (Booth 4)
Telvent (Booth 5)
SES America, Inc. (Booth 27)
Vaisala, Inc. (Booth 15)
Wavetronix (Booth 21)
Western Systems (Booth 3)
Western Transportation Institute (Booths 29 & 30)
Wostman & Associates (Booth 24)
## Tuesday, September 2nd

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00 - 3:00 pm</td>
<td>National Transit Database Rural Training Seminar</td>
</tr>
<tr>
<td>3:30 - 6:30 pm</td>
<td>AnchorRides and People Mover Transit Tour</td>
</tr>
<tr>
<td>6:00 - 8:00 pm</td>
<td>Registration Desk Open, Meet-and-Greet, sponsored by Open Roads Consulting, Inc.</td>
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</table>

## Wednesday, September 3rd

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>7:00 am</td>
<td>Registration/Vendor Area Opens/Continental Breakfast (sponsored by Geo-Watersheds Scientific)</td>
</tr>
<tr>
<td>8:30 am</td>
<td>Opening Session</td>
</tr>
<tr>
<td>9:45 am</td>
<td>ITS Information Assembly</td>
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<tr>
<td>12:00 pm</td>
<td>Lunch, sponsored by Quixote Transportation Technologies, Inc.</td>
</tr>
<tr>
<td>1:00 pm</td>
<td>A1: Climate Change Overview</td>
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<tr>
<td></td>
<td>A2: Leadership Roundtable: Gaining Institutional Buy-in to Address Rural ITS Transportation Needs (12:00 pm Mega Tour - Sponsored)</td>
</tr>
<tr>
<td>2:30 pm</td>
<td>Break, sponsored by ITS Alaska</td>
</tr>
<tr>
<td>2:45 pm</td>
<td>B1: Impacts of Climate Change - Session I</td>
</tr>
<tr>
<td></td>
<td>B2: Unique ITS Deployments</td>
</tr>
<tr>
<td>4:30 pm</td>
<td>Adjourn</td>
</tr>
<tr>
<td>5:00 pm</td>
<td>Group Activity - Alaska Native Heritage Center, sponsored by Telvent and Wostmann &amp; Associates, Inc.</td>
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## Thursday, September 4th

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:00 am</td>
<td>Registration/Vendor Area Opens/Continental Breakfast (sponsored by Geo-Watersheds Scientific)</td>
</tr>
<tr>
<td>8:00 am</td>
<td>C1: Impacts of Climate Change - Session II</td>
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<tr>
<td></td>
<td>C2: RWIS Applications - Session I</td>
</tr>
<tr>
<td></td>
<td>C3: Data - How, When and Why</td>
</tr>
<tr>
<td>9:30 am</td>
<td>Break, sponsored by International Road Dynamics, Inc.</td>
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<tr>
<td>9:50 am</td>
<td>TRAINING: Open Source Software</td>
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<tr>
<td></td>
<td>TRAINING: System Requirements for Rural Deployment</td>
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<td></td>
<td>TRAINING: Rural Data Collection</td>
</tr>
<tr>
<td>12:00 pm</td>
<td>Lunch, sponsored by Lynden Incorporated</td>
</tr>
<tr>
<td>1:00 pm</td>
<td>D1: EMS Session I - Improving Safety and Care in Rural Areas</td>
</tr>
<tr>
<td></td>
<td>D2: RWIS Applications - Session II</td>
</tr>
<tr>
<td></td>
<td>D3: Seasonal Traffic and Event Congestion</td>
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<tr>
<td>2:30 pm</td>
<td>Break, sponsored by McDowell Group</td>
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<tr>
<td>2:45 pm</td>
<td>E1: EMS Session II - Technical Applications for Rapid and Safe EMS</td>
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<tr>
<td></td>
<td>E2: RWIS and Traveler Information</td>
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<tr>
<td></td>
<td>E3: Applying and Using Systems Engineering and Technology</td>
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<tr>
<td>4:15 pm</td>
<td>Adjourn</td>
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<tr>
<td>4:30 pm</td>
<td>Arctic Oil &amp; Gas Transportation Working Group</td>
</tr>
<tr>
<td>5:00 - 5:15 pm</td>
<td>Departure times for Individual Activity Night - Alaska Zoo Tour, Portage Glacier Tour, Sourdough Mining Company</td>
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</tbody>
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## Friday, September 5th

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>7:00 am</td>
<td>Registration/Vendor Area Opens/Continental Breakfast</td>
</tr>
<tr>
<td>8:00 am</td>
<td>F1: TMC/TOC Applications and Insights</td>
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<tr>
<td></td>
<td>F2: Intelligent Transportation System Tools</td>
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<td></td>
<td>F3: Rural</td>
</tr>
<tr>
<td>9:45 am</td>
<td>Break, sponsored by Thompson Engineering</td>
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<tr>
<td>10:00 am</td>
<td>G1: Just Comm-it!</td>
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<tr>
<td></td>
<td>G2: Rural Incident Management - Tools and Applications</td>
</tr>
<tr>
<td></td>
<td>G3: Applications Environment</td>
</tr>
<tr>
<td>11:45 am</td>
<td>Lunch</td>
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<tr>
<td>12:45 pm</td>
<td>Closing Session/Rural SIG Meeting</td>
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<tr>
<td></td>
<td>ITS Alaska Membership Meeting</td>
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<tr>
<td>3:00 pm</td>
<td>Adjourn</td>
</tr>
<tr>
<td>4:00 - 6:00 pm</td>
<td>MSAA Reception (by invitation)</td>
</tr>
</tbody>
</table>
### TRANSIT TRACK

| 1  | T1: Turning Data into a Better Rural Transit System (starts 10:30 am) |
| 2  | T2: What Have we Learned from Using ITS in Rural Transit? Break, sponsored by ITS Alaska |
| 3  | T3: Experiences in Statewide Rural ITS System Deployments |

### CVO TRACK

| 1  | CV1: The Last Frontier - Extreme CVO & ITS |
| 2  | CV2: CVO Research and Technology Spotlight |

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**Break:** Whittier Tunnel/Turnagain Pass departure by Horizon Lines of Alaska

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### TRANSIT TRACK

| 1  | C4: Mitigating Wildlife’s Impact on the Transportation System |
| 2  | D4: GPS - System Types and Uses |
| 3  | E4: Collision Avoidance at Rural Intersections |

### TRAINING: National Wildlife Collision Mitigation Study

Alaska Railroad Tour and Luncheon Lecture (load buses at 7:30 am)

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### CVO TRACK

| 1  | CV3: Alaska CVO - North to the Future |
| 2  | Break |
| 3  | Glenn Highway E-Screening System Tour Lunch |
| 4  | CVFM Fall Forum Meeting |

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**Dinner/Entertainment**

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### VII - An Incremental Approach to Meeting our Safety Needs and Evaluation of VII in a Rural Human Services Transportation Coordination Workshop
IMPORTANT NOTES

Assistance - If you have questions, or need assistance during the conference, please look for conference staff wearing nametags with blue ribbons. They will be happy to assist you.

Registration Desk - The registration desk will be open all 4 days of the conference (see following pages for times). If you have questions regarding sessions or activity meeting times/places, please feel free to stop and ask for assistance. You can also phone us (toll-free) at 1-866-633-8110.

Nametags - Nametags allow attendees and guests entrance to all applicable conference sessions, meals and activities. Please have your nametag with you at all times.

Door Prizes - Thanks to our vendors and sponsors, we have assembled a wide variety of door prizes. These prizes will be handed out during each of the three conference luncheons. Prizes include: memory sticks/thumb drives, shirts, jackets, gift certificates to home improvement stores, first-aid kits, flashlights, MP3 player and more! How do you become eligible? Collect only 15 vendor stamps/signatures as shown on the vendor map found in your registration packet, fill out your name and return to the registration desk! It couldn’t be easier!

Activities - If you wish to attend an activity, but did not sign up previously on your registration form, please speak to the staff at the registration desk. A limited number of seats are still available for some activities. However, attendance will be granted on a first-come, first-served basis.

Proceedings - Presentations from the conference will be made available on the conference website - http://www.nritsconference.org. It is anticipated that proceedings will be available by October 17, 2008.
TUESDAY, SEPTEMBER 2ND

1:00 - 3:00 pm
NATIONAL TRANSIT DATABASE RURAL TRAINING SEMINAR
Adventure Room
Instructor: John Giorgis, Federal Transit Administration (FTA)

The most recent surface transportation law, SAFETEA-LU, added a requirement for recipients of Federal Transit Administration (FTA) Rural Formula Grants (Section 5311 Grants) to report to the National Transit Database (NTD). State Departments of Transportation are responsible for reporting to the NTD on behalf of their subrecipients, while Indian Tribes in the Tribal Transit Program report directly to the NTD. Whether you are a representative from a State DOT or Indian Tribe responsible for filing out the reports or you are a subrecipient that needs to support your State DOT in NTD reporting, this seminar will answer your questions. A representative from FTA will provide an overview of the NTD reporting process, followed by a line-by-line discussion of the reporting requirements. This session will also cover common data trouble spots and definitional issues to aid in the submission of original NTD reports and the response to validation checks. Plenty of time will also be allotted in this interactive session for questions on specific issues from the attendees. Presenting the session will be John Giorgis from FTA, who is the NTD Performance Manager and is responsible for all aspects of NTD operations.

3:30 - 6:30 pm
ANCHORRIDES AND PEOPLE MOVER TRANSIT TOUR

Conference attendees arriving early will have the opportunity to visit two of Anchorage's transit solutions. AnchorRides is a shared ride service providing curb-to-curb trips and transportation services to people with disabilities. People Mover provides scheduled, fixed route service throughout Anchorage. What will tour participants learn? Our first stop will be AnchorRides' current facility on King Street. There, participants will receive an overview of the start-of-the-art scheduling and dispatching hardware, software and drivercam technology including Trapeze software, Mentor MDT's and AVL's, Nortel Business Communications Manager and much more. The vehicles used for AnchorRides will also be available for viewing.

Following our AnchorRides stop, participants will visit the newly constructed People Mover facility. While the facility is not expected to be occupied until the end of September, tour participants will still have the opportunity to learn more about scheduling, drivecam, real-time signage, and carpool matching technology. Tour participants will be returned to the hotel in time for the evening Meet-and-Greet.

3:00 - 9:00 pm
REGISTRATION
Conference Registration Area (Lobby level facing Fifth Avenue)

The Registration Desk will open at 3:00 pm and remain open until 9:00 pm. Attendees are invited to stop by and pick up their registration packets prior to attending the Meet-and-Greet Reception.

5:00 - 9:00 pm
VENDOR SETUP, Fore Deck

Vendors should check in at the Registration Desk, across from the Fore Deck, prior to setting up.

6:00 - 8:00 pm
MEET-AND-GREET RECEPTION
Quarter Deck, 10th Floor, Tower I

This event sponsored by Open Roads Consulting, Inc.

Those arriving early can take advantage of an informal Meet-and-Greet reception. Held on the Rooftop Quarter Deck at the Hotel Captain Cook, enjoy views of downtown while dining on hors d'oeuvres! A cash bar will be available. Please stop by the Registration Desk and pickup your nametag and registration packet prior to attending.

7:00 - 9:00 pm
POSTER SESSION SETUP, Aft Deck

Poster authors should check in at the Registration Desk, across from the Fore Deck, prior to setting up.
**WEDNESDAY, SEPTEMBER 3RD**

**7:00 am**
**REGISTRATION**
*Conference Registration Area (Lobby level facing Fifth Avenue)*

The Registration Desk will open at 7:00 am. Attendees should pickup their registration packets prior to attending the continental breakfast.

**7:00 am**
**CONTINENTAL BREAKFAST, Aft Deck**
This breakfast sponsored by Geo-Watersheds Scientific.

**7:00 am**
**VENDOR AREA OPENS, Fore Deck**

**8:30 am**
**OPENING SESSION, Mid Deck**
Moderator: Jeffery Ottesen, Program Development, Alaska Department of Transportation & Public Facilities

*National Anthem/Alaska Flag Song*: Taylor Vidic, Juneau, Alaska

**Welcome**
- Anchorage Mayor Mark Begich
- Alaska Transportation Commissioner Leo Von Scheben

**Keynotes**
- Paul Brubaker, Administrator, Research and Innovative Technology Administration, USDOT
- Klaus Banse, President, ITS Colombia
- Burr Stewart, Port of Seattle

Population growth is extending into what has previously been extreme rural settings. User expectations for transportation system performance are increasing. Rapid technology changes offer many opportunities. These opportunities, however, come with significant challenges and future funding availability often brings program sustainability into question. Add to this the increasing impact of climate change on all facets of society and it is rapidly evident that rural ITS has challenges similar to what other transportation programs face.

Where does this lead? New opportunities for data and program sharing, especially across jurisdictions and borders; as well as an increased need to understand the transportation system changes before we can address solutions. The Opening Session will explore the role of rural intelligent transportation system deployment in light of these impacts.

**9:45 am**
**ITS Information Assembly, Discovery Ballroom**

Welcome to the ITS Information Assembly! In addition to the many exhibitors that will be onsite sharing the latest breakthroughs in technology, a Poster Session and Training Pavilion are also available. What does this mean for you, the attendee? After perusing the exhibits, you can take advantage of the Poster Session and visit one-on-one with the authors/presenters. Add to this the opportunity to visit with individuals from the various ITS Training Programs at the Training Pavilion regarding your agency’s training needs and we've created a gathering packed with opportunity. The ITS Information Assembly goes until lunch to allow ample time for individuals to interact and network.

**POSTER PRESENTATIONS:**
- Daniel Benhammou, Hamilton Signal
  *Real-Time Congestion Maps for Rural Roadways*
- Brian Burkhard, HNTB Corporation
  *An Evaluation of Rural Area Vehicle Infrastructure Integration (VII)*
- Ben Frevert, Iteris, Inc.
  *Improvements to Idaho’s Traveler Information System*
- Eric Gibbons, High Sierra Electronics, Inc.
  *Important Aspects of a Well-Designed Advance Flooded Roadway Warning System*
- Annjanette Kremer, Michigan Department of Transportation
  *Leveraging Maintenance Operations for Rural ITS Deployment*
- Ming-Shiun Lee, URS Corporation
  *Development of Kansas Statewide ITS Architecture*
- Pradeep Rao, HNTB Corporation
  *ITS Application on Safety Barrier Cable System*
- Jeff Roach, Alaska Department of Transportation & Public Facilities
  *Vehicle Infrastructure Integration in Rural Transit Systems*
  *Mining New Traffic Data from Old Sources*
- Jim Stemitz (for Peter Keen), Digital Traffic Systems, Inc.
  *A Business Framework for Traffic Data Quality Improvement*
- David Veneziano (for Chris Strong), Western Transportation Institute
  *Alaska RWIS Usage Study*
- Jerry Waldman, Quixote Transportation Technologies, Inc.
  *Advance Warn for Rural ITS*
10:30 am
TRANSIT TRACK (overlaps with ITS Information Assembly)

Session T1: Turning Data into a Better Transit System
Adventure Room
Moderator: Eric Taylor, Alaska Department of Transportation & Public Facilities
Yehuda Gross, ITS Joint Program Office, USDOT
System Design Characteristics of Coordinated Public Transportation Services Using ITS
Tom Coogan, RouteMatch Software
Turning Data Confusion into Data Intelligence
Josh Cohn, California Center for Innovative Transportation
EDAPTS: Sustainable APTS Deployments for Small Urban and Rural Transit Services
The data collected from using ITS in rural transit helps the agencies collect enormous amounts of knowledge that can be used to improve customer service and other performance measures. This session will look at ITS used in coordination as well as data collected from successful deployments of ITS. This session will be presented in a lecture style format from industry experts.

12:00 pm
VENDOR LUNCH, Mid Deck
This lunch sponsored by Quixote Transportation Technologies, Inc.

12:00 pm
MEGA TOUR - Whittier Tunnel/Turnagain Pass
This tour sponsored by Horizon Lines of Alaska, LLC. Please meet in the main Lobby area (facing Fourth Avenue).

Tour Guides:
• Mark Parmelee, Alaska Department of Transportation & Public Facilities
• Mark Feldman, Quixote Transportation Technologies, Inc.

Tour participants will depart at 12:00 pm and return by 4:30 pm. Box lunches will be provided. Spectacular scenery compliments the exceptional use of technology as tour participants see how Alaska addresses power and communication challenges in extreme rural settings. Attendees will visit the Anton Anderson Memorial Whittier Access Tunnel, powered by a sophisticated tunnel control system, as well as visit the self-powered custom road weather information system (RWIS) on Turnagain Pass.

1:00 pm
CONCURRENT SESSIONS

Session A1: Climate Change Overview, Voyager Room
This session sponsored by Cambridge Systematics, Inc.
Moderator: Jack Stickel, Alaska Department of Transportation & Public Facilities
Burr Stewart, Port of Seattle
The Impacts of Climate Change on the Transportation Sector
Henry G. Schwartz, Berger Group Holdings
Potential Impacts of Climate Change on US Transportation
Robert Hyman, Cambridge Systematics, Inc.
Impacts of Climate Change and Variability on Transportation Systems and Infrastructure: Gulf Coast Study
Understanding of the physical climate system has progressed rapidly, but using this knowledge to support decision making, manage risks, and engage stakeholders has not been widespread in transportation agencies. Addressing climate change requires an examination of plausible future scenarios, the long-term capacity to deal with uncertain and changing information, and agency responses that extend beyond jurisdictional boundaries and transportation modal responsibilities. These are significant challenges for transportation professionals. This session will help illuminate potential impacts of climate change with the greatest relevance for U.S. transportation as presented in the recently released “Potential Impacts of Climate Change on U.S. Transportation.”

Session A2: Leadership Roundtable - Gaining Institutional Buy-In to Address Rural ITS Transportation Needs, Endeavor Room
Moderator: Steve Albert, Western Transportation Institute
Panelists:
• Klaus Banse, ITS Colombia
• Paul Brubaker, Research and Innovative Technology Administration, USDOT
• Jeffrey Ottesen, Program Development, Alaska DOT&PF
• Shelley Row, ITS Joint Program Office, USDOT

This session will be a dialogue among federal and state organizations and the audience on how to raise awareness, buy-in and acceptance within organizations on the need for rural ITS solutions. Speakers will bring their institutional insight and will discuss ideas for how to best communicate with leadership and what types and content of messages best resonate with leadership that will result in actions.
WEDNESDAY, SEPTEMBER 3RD continued...

1:00 pm
TRANSIT TRACK

Session T2: What Have We Learned from Using ITS in Rural Transit?  Adventure Room
Moderator: Larry Alflen, Zuni Entrepreneurial Enterprise, Inc.
Lou Friend, MASCOT
What Have We Learned from Using ITS in Rural Transit?
David Kack, Western Transportation Institute
Return on Investment in Paratransit Technology: A Case Study
John Giorgis, Federal Transit Administration
Lessons Learned about Rural Transit Using the New Rural National Transit Database
Jennifer Beckman, Central Area Rural Transit Systems, Inc.
ITS and the Small Rural Transit Organization

ITS can combine the power of computers on-board vehicles with the latest location and communication technologies and other tools to improve the safety, quality, or efficiency of rural transit. From the customer's point of view, these technologies can greatly assist in improving transportation delivery and service quality thus proving beneficial to all riders. But where do we take the lessons learned from the technology to continue offering stellar service to customers? This session takes a look at some of the lessons learned from using ITS in rural transit. This session will be presented in a lecture style format from industry experts.

COMMERCIAL VEHICLE OPERATIONS (CVO) TRACK

Session CV1: The Last Frontier - Extreme CVO & ITS, Resolution Room
Moderator: Aves Thompson, Alaska Trucking Association
Jeremy Miller, Kuukpi Carlile Transportation, North Slope Operations
Trucking in Alaska
Howard Thies and Dwight Stuller, Alaska Department of Transportation & Public Facilities
The Dalton Highway: Past, Present, Future
Al Guettinger, Alaska West Express
The Realities of the Haul Road

"Good stuff – trucks bring it." Plainly stated but no less true; however, for some commercial vehicle operators bringing the good stuff means traveling through rural areas under challenging environmental conditions. Whether through U.S. avalanche prone mountain highways or over roads made of iceberg in Canada, these operators and safety officers are working overtime to ensure safe movement of freight in extreme conditions, using real life-and-death lessons learned. This session will provide highlights of commercial vehicle operations conducted in adverse conditions, an overview of operational lessons, and discuss if and how intelligent transportation system technologies and applications could assist in improving the safety of these extreme operations.

2:30 pm
BREAK, Mid Deck
This break sponsored by ITS Alaska.

2:45 pm
CONCURRENT SESSIONS - all tracks

Session B1: Impacts of Climate Change - Session I
Voyager Room
This session sponsored by Cambridge Systematics, Inc.
Moderator: Henry G. Schwartz, Berger Group Holdings
Representative Reggie Joule, State of Alaska
Alaska Climate Assessment Commission
Mike Coffey, Commissioner's Office, Alaska Department of Transportation & Public Facilities
Public Infrastructure and Climate Change
Pete Larsen, The Nature Conservancy
Estimating Future Costs for Alaska Public Infrastructure at Risk from Climate Change
Captain Bob Pawlowski, Alaska Fisheries Development Foundation
Technical Mapping Aspects for Climate Change

The world's leading scientists have reached consensus that human activity in the form of greenhouse gas (GHG) emissions is warming the planet in ways that will have profound and unsettling impacts on natural resources, energy use, ecosystems, economic activity, and potentially quality of life. This session will examine some of these impacts as they relate to rural multi-modal transportation infrastructure and, in particular, the impacts on Native American transportation and quality of life. The session will also highlight how transportation agencies can establish a decision framework to use in addressing impacts of climate change on the transportation infrastructure through ITS.
Session B2: Unique ITS Deployments, *Endeavor Room*
Moderator: Ocie Adams, Alaska Department of Transportation & Public Facilities
Eliseo Barrera, Horizon Lines of Alaska, Inc.
*Horizon Lines Active RFID Container Tracking Program: An Ocean-Container Shipping Industry First*
Eddy Castoria, San Diego Motorist Aid Authority
*Mobile Call Boxes*
Taek Kwon, University of Minnesota
*Solar/Wind Hybrid Renewable Energy Generator for Powering Rural Dynamic Message Signs*
Troy Pinkerton, Missouri Department of Transportation
*Missouri Department of Transportation’s Statewide Rural Dynamic Message Sign Deployment*
What do RFID container tracking, mobile call boxes, dynamic message signs, and solar/wind hybrid energy generators have in common? They all have applications in rural ITS! Come learn how technology has begun to help fill the gaps in power reliability, data collection and safety.

TRANSIT TRACK
Session T3: Experiences in Statewide Rural ITS System Deployments, *Adventure Room*
Moderator: David Levy, Alaska Mobility Coalition
Leslie Spencer Fowler, Kansas Department of Transportation
*Kansas Rural Transit ITS - Resolving Specific Technical Challenges*
Bob Krause, Iowa Department of Transportation
*The Iowa Rural Regional Public Transit ITS Deployment Experience*
Peter Davies, Castle Rock Associates
*Modes: A Shared, Statewide Multi-Modal Transit Management System*
States with large areas of sparse populations have recently begun to look at deploying statewide ITS systems to aid their rural transit systems. This session will offer presentations from experts that have had experience with these types of deployments followed by a roundtable discussion with the audience.

CVO TRACK
Session CV2: CVO Research & Technology Spotlight
*Resolution Room*
Moderator: Dan Murray, American Transportation Research Institute
Dan Murray, American Transportation Research Institute
*Assessing the Safety and Financial Impacts of OnBoard Safety Systems*
Mike Akridge, Florida Department of Transportation
*Florida Smart Roadside*
Julie Lane, USDOT FMCSA
*FMCSA Safety and Technology Overview*
Roy Czinku, International Road Dynamics, Inc.
*Camera Technology for Commercial Vehicle Operations*
With so many projects and studies underway in the U.S. for improving safety and efficiency of commercial vehicle operations using intelligent transportation technologies, this session will provide a “tour” of the latest and greatest advances ongoing in the commercial vehicle industry. Spotlighting driver safety, speakers will discuss human factors engineering research results, potential in-vehicle safety systems, and technology applications benefiting commercial drivers.

4:30 pm
Adjourn for the day.

5:00 pm
Alaska Native Heritage Center
This event sponsored in part by Telvent and Wostmann & Associates, Inc. *(To attend this event, individuals must have previously registered. Check at registration desk for openings.)*
Attendees and guests should meet in the main Lobby area (facing Fourth Street) for loading onto the buses. Buses begin loading at 5:00 pm.
Located just a short ten minute drive from downtown, the Alaska Native Heritage Center includes a Welcome House and Village Sites. The Welcome House hosts traditional Native dancing and interpretive displays while the Village Sites allow visitors to see five authentic Native settings alongside a picturesque lake and beautifully landscaped trails.
Light hors d’oeuvres and a cash bar will be available on the outdoor deck. Village Site tours will take place from 5:30 to 7:00 pm. Dinner will begin at 7:00 pm and will feature an Alaska salmon bake as well as beef tips in burgundy sauce. Salads, seafood chowder, sauteed fresh garden vegetables, roasted red potatoes and, of course, desserts round out the menu. There will also be five Native Artists representing all five cultural groups demonstrating from 6:00 to 7:30 pm. A dance performance will follow at 7:30 pm. We anticipate returning to the hotel by 9:00 pm. An evening you don’t want to miss!
THURSDAY, SEPTEMBER 4TH

7:00 am
REGISTRATION
Conference Registration Area

7:00 am
CONTINENTAL BREAKFAST, Mid Deck
This breakfast sponsored by Geo-Watersheds Scientific.

7:00 am
VENDOR AREA OPENS, Fore Deck

7:45 am
TRANSIT TRACK
Alaska Railroad Tour and Luncheon Lecture
(To attend this event, individuals must have previously registered. Check at registration desk for openings.)

Attendees and guests should meet in the main Lobby area (facing Fourth Street) for loading onto the buses. Buses begin loading at 7:30 am and depart by 7:45 am for the Alaska Railroad Depot. Attendees must have a photo ID to pickup their tickets at the Depot.

The Denali Star train departs Anchorage for Talkeetna at 8:15 am. Participants will enjoy a nearly three hour scenic ride to Talkeetna before arriving at 11:05 am. A bus will meet participants and take them to Talkeetna Lodge for a presentation from the Alaska Railroad Corporation’s Chief Technology Officer. Lunch will follow. Return trip will be by bus and participants will visit the MASCOT Transportation Facility in the Mat-Su Valley. We anticipate returning to the hotel at 5:00 pm. A beautiful, unique and informative trip!

8:00 am
CONCURRENT SESSIONS

Session C1: Impacts of Climate Change - Session II
Voyager Room
Moderator: Jackie Posten, Department of Environmental Conservation
Amy Holman, NOAA Alaska Regional Collaboration Team
Opportunities for ITS Applications in NOAA
Martha Morecock Eddy, PB
The Role of ITS in Global Climate Change
Michael Lilly, Geo-Watersheds Scientific
Arctic Ice - Road and Snow Transportation Networks
Molly McCammon, Alaska Ocean Observing System
Using Regional and National Ocean Observing Programs to Meet Rural Transportation Needs

Transportation decision makers note that one of the most difficult aspects of addressing climate change is obtaining the relevant information for planning and design. Climate change is understood with greatest confidence as a global phenomenon, while transportation planners need local and regional climate projections. They also need a better understanding of how projected climate changes, such as changes in temperature and precipitation, will affect the environment (e.g., soil moisture, runoff, freeze/thaw) in which the infrastructure is situated, which will vary from region to region. This session will highlight how ITS can be applied at the local or regional level to incorporate climate change into transportation planning, design, and operation.

Session C2: RWIS Applications - Session I, Aft Deck
Moderator: Andy Stern, Noblis, Inc.
Ben McKeever, ITS Joint Program Office, USDOT
FHWA Applications Utilizing RWIS
Jared Ye, PhD, Western Transportation Institute
Benefits and Costs of Weather Information in Winter Maintenance
Peter Davies, Castle Rock Associates
Next-Generation RWIS Applications

Each day, traffic, incident and maintenance staff, as well as the traveling public, make decisions that directly affect roadway safety and mobility. Road Weather Information Systems (RWIS) have long been among the standard ITS applications that agencies have used to assist in this decision making process. Today, early generational deployments have given way to new initiatives and technologies. This session will provide background, information and analyses of the MDSS, Clarus, and Aurora initiatives as well as touching on next-generation RWIS applications.
Session C3: Data - How, When and Why  
**Endeavor Room**

Moderator: Mike Ronchetti, Intertiviti  
Greg Thompson, Thompson Engineering Company  
Chaos vs. Blink Session III  
Kristin Virshbo, Castle Rock Associates  
*Mobile Intelligent Transportation Systems Applications*

David Ludwig, Digital Traffic Systems, Inc.  
*Portable Multi-Sensor Data Collection Platforms for emergency Deployment, Special Events or Temporary Deployment*

How do you collect data to make roadway decisions? What sensors and software programs are available to leverage wired and wireless technology? How much data do you or the traveling public need to make an accurate and timely decision? This session will touch on these subjects and more.

Session C4: Mitigating Wildlife’s Impact on the Transportation System  
**Adventure Room**

Moderator: Gary Olson, Moose Federation  
Brian Scott, SRF Consulting Group, Inc.  
*Network Technologies and Low Cost, Active Animal Collision Warning Systems*

Marcel Huijser, Western Transportation Institute  
*The Reliability of Animal Detection Systems and Reliability Norms*

Dave Bryson, Electrobraid Fencing  
*At Grade Crosswalk and Directional Fencing*

Panelists:  
• Col. Audie Holloway, Alaska State Troopers  
• Doug Larsen, Alaska Department of Fish & Game  
• Pat McGowen, PhD, Western Transportation Institute  
• Bill Ruediger, Wildlife Consulting Resources  
• Rhonda Young, University of Wyoming

This session includes three presentations followed by a professional panel of speakers with very diverse backgrounds. During the presentations you’ll hear about the latest research and the established technologies used to mitigate crashes. The panel is an added bonus. You will hear from all sides on strategies, solutions and what the wildlife experts are doing in regards to habitat, conservation and partnerships. Panel experts include those from research, fish and game, law enforcement, federal government and a wildlife conservation organization all dealing with this growing concern.

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CVO TRACK

Session CV3: Alaska CVO - North to the Future  
**Resolution Room**

Moderator: Dan Breeden, Alaska Department of Transportation & Public Facilities  
Rex Young, Alaska Department of Transportation & Public Facilities  
*Alaska’s CVISN Program*

Laura Edwards, Alaska Department of Transportation & Public Facilities  
*Alaska’s First Fully Automated Mobile Weigh Station*

Daniel Moose, International Road Dynamics, Inc.  
*Glenn Highway E-Screening System Tour Overview*

Alaska’s beautiful scenery offers more than just breathtaking views, it also offers unique transportation challenges - the state’s road system covers a relatively small area of the state, linking the central population centers and the Alaska Highway. Not even the state capital, Juneau, is accessible by road. Arguably, Alaska is the least connected state in terms of road transportation, with most cities and villages in the state accessible only by sea or air making freight mobility a truly complex intermodal exercise. Whether by road, sea, air, or rail, getting commercial goods safely and efficiently to Alaska’s businesses and residents typically occurs in combination with passenger transportation. This session will highlight the unique freight mobility and commercial vehicle planning and operations conducted in Alaska and will provide an overview of the technical tour (following this session) of the Glenn Highway E-Screening System.

9:30 am  
BREAKE, Mid Deck  
This break sponsored by International Road Dynamics, Inc.
NRITS Conference Mini-Training Sessions

9:50 am

Option 1: Open Source Software

Instructor: Dean Deeter, Athey Creek Consultants

Open source software refers to the licensing and sharing of software source code and documentation, allowing others to use, modify, and redistribute as long as the software remains open source. Other industries widely use open source software as a mechanism for encouraging creative and low cost software development. In the ITS industry, there are a few examples of open source software sharing. However, the potential benefits of open sharing of software source code for rural areas is tremendous. This training will explain the background of open source, the licensing options, and what it means to develop, use, and share open source software.

Option 2: System Requirements for Rural Deployment

Instructor: Jeff Brummond, Iteris, Inc.

Requirements are the foundation for building ITS. They determine WHAT the system must do and drive system development. Requirements determine if the project team built the system correctly. In this “mini” training course you’ll learn tips on how to develop the right system requirements for your rural projects. It will also include an overview of the V systems engineering process, a short requirements exercise, the importance of traceability and a discussion of the ITS project systems engineering analysis required by the FHWA Rule and FTA Policy.

Option 3: Rural Data Collection

Instructor: Austin McHugh, Geo-Watersheds Scientific

Road weather, traffic, and vertical temperature profiles for seasonal weight restrictions are important components of a transportation agencies regional ITS architecture. Getting current information for the rural transportation network faces unique challenges such as communication, cost, and power. This training session will show how a low cost, effective rural data collection program can be established in an open architecture approach environment using Campbell Scientific data loggers. Attendees will learn the key components in establishing networks and leave with resources to start a rural data collection program. This training course will be presented by Geo-Watersheds Scientific, who have extensive experience in remote data collection and data logger technology.

Option 4: National Wildlife Collision Mitigation Study

Instructor: Pat McGowen, PhD, Western Transportation Institute

Under Section 1119 (n) of the Safe Accountable Flexible Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU), the US Congress directed the Secretary of Transportation to conduct a national Wildlife Vehicle Collision (WVC) study. This study, signed by the Secretary of Transportation and submitted to Congress in November 2007, was conducted by the Road Ecology Team at the Western Transportation Institute. This session will provide an overview of the Report to Congress and the Manual which is still under development. In addition to providing an overview of wildlife vehicle collisions, this training will include:

- an overview of geometric and roadside design features that can reduce WVCs;
- methods for integration of transportation planning and wildlife management on regional or statewide levels;
- information on the 34 different techniques aimed at reducing the number of WVCs; and
- a list of 21 threatened or endangered animal species for which road mortality is among the major threats to the survival of the species.

CVO TRACK

Glenn Highway E-Screening System Tour

(To attend this event, individuals must have previously registered. Check at registration desk for openings.)

Attendees and guests should meet in the main Lobby area (facing Fourth Street) for loading onto the bus at 9:50 am. Participants will return to the hotel in time for lunch.

Just north of Anchorage, participants will get a two-hour tour of the new automated vehicle identification E-Screening System at the Glenn Highway Inbound and Outbound Weigh Stations. This system automatically checks the safety rating and credentials of participating motor carriers and vehicles and, if all is in order, allows those vehicles to proceed down the highway without stopping.

12:00 pm

LUNCH, Mid Deck

This lunch sponsored by Lynden Incorporated.
1:00 pm
CONCURRENT SESSIONS

Session D1: EMS Session I: Improving Safety and Care in Rural Areas
Voyager Room
Moderator: Dia Gainor, Idaho EMS Bureau
Teri Sanddal, Critical Illness and Trauma Foundation
Improved Patient Care Records Following Implementation of an Electronic EMS Patient Record Keeping System in a Rural Area
Nicholas Ward, Western Transportation Institute
Pilot Study to Determine the Feasibility of Wide-Scale Deployment of Electronic Driving and Crash Measuring Devices in Ambulances in Rural Areas
Nels Sandfal, Critical Illness and Trauma Foundation
Improving Rural EMS Driving Risks Within the Framework of the Three E’s
EMS providers, as well as their patients, are at an increased risk for serious injury or death when compared to their more urban counterparts. This session will examine some of the causes of this disparity - in particular rural ambulance crashes - as well as ways to improve ground ambulance safety. Patient care will also be examined in the context of ITS applications that improve patient record keeping and subsequent care. This session will be presented in a combined lecture/roundtable format and participants will be encouraged to join in the dialogue.

Session D2: RWIS Applications - Session II, Aft Deck
Moderator: Les Jacobsen, Telvent Farradyne, Inc.
Rhonda Young, University of Wyoming
Use of RWIS Data for Rural ITS Deployments in Wyoming
Michael Wendtland, ITS Engineers
Public-Private Partnerships for Weather Information
Jack Stickel, Alaska Department of Transportation & Public Facilities
Multi-Use RWIS Sites - Targeted Approaches for Transportation Data
This session will highlight various RWIS deployments in Wyoming, Arizona and Alaska. These states have undertaken unique approaches to some of the standard RWIS conundrums. Wyoming will report on its progress in using RWIS for its high-wind warning system as well as its variable speed limit system. Presenters from Arizona will highlight the public-private partnership ADOT developed to receive weather information services from a private provider.

Session D3: Seasonal Traffic and Event Congestion
Endeavor Room
Moderator: Christopher Hedden, Cambridge Systematics, Inc.
David Veneziano, Western Transportation Institute
Facilitating Special Event Congestion Management in Small Communities
Michael Stokes, Mississippi Department of Transportation
ITS Deployment to Benefit Seasonal Tourist Traffic Along the US 90 Corridor
Brian Burkhard, HNTB Corporation
Rural ITS Planning, Design and Implementation - A Case Study
This session will touch on strategies and models for congestion that small urban and rural communities across the country can use to reduce traffic congestion during special events or in specific corridors that receive heavy seasonal or tourist traffic. Partnership development, technology applications and cost considerations will all be addressed.

Session D4: GPS - System Types and Uses
Adventure Room
Moderator: John Hansen, 2ITS-Help
Max Donath, ITS Institute, University of Minnesota
Lane Guidance Systems for Rural Highway Maintenance
James Arnold, Federal Highway Administration
High Accuracy Nationwide Differential Global Positioning System
Highway winter maintenance is an often difficult endeavor due to poor visibility because of weather and roadway conditions. Global Positioning Systems (GPS) are one tool available to address this problem. This session will examine the multi-modal lane guidance system developed in the Intelligent Vehicles Lab at the University of Minnesota and how it used carrier phase differential GPS for vehicle position and heading determination. It will also look at the development of the High Accuracy Nationwide Differential Global Position System service (HA-NDGPS) and its impact on many safety related services including Intersection Collision Avoidance, Stop Sign Warning and Lane Departure Warning systems. This session will be a combined lecture/roundtable and will include ample time for speaker-audience interaction.
THURSDAY, SEPTEMBER 4TH, continued...

1:00 pm
CVO TRACK

CVFM Fall Forum Meeting (subject to change)
Resolution Room
The CVFM Forum is back! Based on the success of the collaboration between the 2007 National Rural ITS (NRITS) Conference Committee and ITS America's Commercial Vehicle and Freight Mobility (CVFM) Forum in making commercial vehicle a part of the 2007 NRITS Conference Program, this year the CVFM Forum is proud to be a part of the 2008 National Rural ITS Conference Program. This meeting continues until 4:15 pm.

Dan Murray, American Transportation Research Institute
Welcome Remarks & Forum Business

USDOT, RITA JPO representative (invited)
USDOT Electronic Freight Management Update

Julie Lane, USDOT FMCSA
FMCSA Smart Roadside Update

Pamela McDermid, Green Light Transportation System
Canada's Combined WIM & AVI Networks

Mike Akridge, Florida Department of Transportation
Florida's Smart Roadside: Where Are We Going? What's Next?

Eliseo Barrera, Horizon Lines of Alaska, Inc.
Horizon Lines Active RFID Container Tracking Program

S. William Gouse, ITS America
Commercial VII

Heather Young, ITS America
Chris Lane, ITS America
2008 Annual Meeting CVFM Forum Track Overview

Dan Murray, American Transportation Research Institute
ITS World Congress/Annual Meeting: CVFM Showcase Overview

2:30 pm
BREAK, Mid Deck
This break sponsored by McDowell Group.

2:45 pm
CONCURRENT SESSIONS

Session E1: EMS Session II - Technical Applications for Rapid and Safe EMS
Voyager Room
Moderator: Dia Gainor, Idaho EMS Bureau

Marie Flanigan, CUBRC
Measured Cellular Signal Strength Along Alaska Roadways and Implications for Timely EMS Notification and Response

Kevin Majka, CUBRC
Accuracy of Motor Vehicle Crash Locations as Provided by ACN Systems

Rapid and safe emergency medical system (EMS) response to motor vehicle crashes is an everyday challenge in most rural areas. This is particularly true in Alaska, where the situation is often exacerbated by extremes of weather, mountainous terrain and the remoteness of much of the highway system. This session will discuss Alaska's Emergency Medical System Optimization Program's utilization of emerging Automated Crash Notification (ACN) and Advanced ACN technologies in their response to serious car crashes. This session will be presented in a combined lecture/roundtable format and participants will be encouraged to join in the dialogue.

Session E2: RWIS and Traveler Information, Aft Deck
Moderator: Pete Costello, INRIX

Michael Lilly, Geo-Watersheds Scientific
Designing Meteorological Station Networks to Assist in Tundra-Travel management and Operations on the North Slope, Alaska

Rick Pannell, Resource Data, Inc.
511 Data Archiver

Matt Radulski, Michigan Department of Transportation
Michigan Department of Transportation Road Weather Information System

Alaska and Michigan are pushing the boundaries of RWIS to benefit end-users, in particular, the traveling public. This session will provide insight and details of some of their more distinctive projects occurring in some of their state’s harshest climates – Michigan's Upper Peninsula and Alaska’s North Slope. Also introduced will be Alaska’s 511 Data Archiver – believed to be the only system in the United States to provide such a comprehensive source of statewide 511 data to users.
Session E3: Applying and Using Systems Engineering and Technology  
**Endeavor Room**
Moderator: Jill Sullivan, Alaska Department of Transportation & Public Facilities
Douglas Galarus, Western Transportation Institute
Meshbox: Mesh Network Communication System for Intelligent Transportation Research Using Open Source Software
Jeff Brummond, Iteris
Systems Engineering is for Rural Projects too!
All too frequently, the steps in a rural ITS project’s systems engineering analysis are skipped, or given little attention. This session will discuss the benefits, rules of thumb and examples of applying systems engineering analysis based on FHWA Rule 940.11. It will also give an example of a project where system engineering analysis has been used in a mesh network communication system. Presented in a combined lecture/roundtable format, participants will be encouraged to join in the dialogue and ample time will be given to speaker-audience interaction.

Session E4: Collision Avoidance at Rural Intersections  
**Adventure Room**
Moderator: Paul Marrero, Wostmann & Associates
Max Donath, ITS Institute, University of Minnesota
Stop Sign Assist in the Cooperative Intersection Collision Avoidance Systems Program
Dennis Foderberg, SEH, Inc.
Intersection Warning System
Peter Davies, Castle Rock Associates
Development of Collision Avoidance Systems: Improving Safety at Rural Road Intersections
In the US, over 20% of all fatal crashes are intersection related. In many rural states this number is even higher. So what can be done? This session will examine some of the technologies available for developing a Collision Avoidance System as well as reporting on how some of these systems performed in the field.

5:00 pm  
**Portage Glacier Tour**  
(To attend this event, individuals must have previously registered. Check at registration desk for openings.)
Attendees and guests should meet in the main Lobby area (facing Fourth Street) for loading onto the bus at 5:00 pm.
Built on the remnants of a terminal moraine left by Portage Glacier the Begich Boggs Visitor’s Center will host conference participants to an after-hours tour. View the exhibits, watch the award-winning film “Voices from the Ice” and take an interpretive 1/4 mile hike around the Gary Williams Memorial Trail. A boxed dinner and transportation will be provided. Attendees will have approximately 1.5 hours to view the area and should be ready to depart the Visitor’s Center at 8:00 pm.

5:15 pm  
**Alaska Zoo Tour**  
(To attend this event, individuals must have previously registered. Check at registration desk for openings.)
Attendees and guests should meet in the main Lobby area (facing Fourth Street) for loading onto the shuttle at 5:15 pm.
One of the most visited attractions in the State of Alaska, the Alaska Zoo is home to nearly 100 birds and mammals. Situated on 25 wooded acres on the beautiful hillside area of Anchorage, the Zoo invites visitors to see the many species of Alaskan wildlife, as well as exotics, up close. An after-hours tour to showcase native animals is being planned with behind the scenes encounters on tap. A boxed dinner and transportation will be provided.

5:15 pm  
**Sourdough Mining Company**  
(To attend this event, individuals must have previously registered. Check at registration desk for openings.)
Attendees and guests should meet in the main Lobby area (facing Fourth Street) for loading onto the shuttle at 5:15 pm.
Dine in an atmosphere of an Alaskan hospitality. The Sourdough Mining Company is a replica of an old mill house and offers a seafood menu. After dinner take in “The Adventures of Dusty Sourdough” in the Sourdough Tent City Theater (show starts at 7:00 pm). Dusty will take you back to the gold rush days with song, storytelling and humor. There is no upfront cost for this activity. Attendees will be responsible for paying for their own dinners (entrees vary from $13.50 to $45.95).
FRIDAY, SEPTEMBER 5TH

7:00 am
REGISTRATION
Conference Registration Area

7:00 am
CONTINENTAL BREAKFAST, Mid Deck

7:00 am
VENDOR AREA OPENS, Fore Deck

8:00 am
CONCURRENT SESSIONS

Session F1: TMC/TOC Applications and Insights
Voyager Room
Moderator: Fred Kitchener, McFarland Management, LLC
Tim Martin, Virginia Department of Transportation
VDOT TMC Applications in a Rural Environment
Matthew Schieler, GeoDecisions
Information Sharing in the TMC Environment: Where ITS Meets GIS
James Barbaresco, HNTB Corporation
Development of Traffic Operations Center Concepts for South Dakota

This session will focus on the functions, systems and processes currently used in transportation management or transportation operations centers across the United States. From South Dakota to Virginia, speakers will discuss interagency cooperation, software applications, strategic deployment plans and much more.

Session F2: Intelligent Transportation System Tools, Aft Deck
Moderator: Dennis Foderberg, SEH, Inc.
John Hansen, 2ITS-Help
2008 MUTCD/NPA Impacts the Deployment of ITS Applications
Gene Martin, Virginia Department of Transportation
Applying ITS Device Warrants - Feedback of Actual Use of the Warrants
Thomas Fowler, Kimley-Horn and Associates, Inc.
How Have ITS Architecture Accelerated ITS Deployment in Rural Areas

Agencies need many tools to successfully deploy and integrate ITS in rural areas. This session will cover three topics which are of interest to everyone involved in the ITS field: (1) Architecture - what has been the impact of rural regional ITS architectures on the deployment of ITS? (2) Warrants - hear feedback on the actual use of warrants through the ENTERPRISE Pooled Fund Study. (3) 2008 MUTCD/NPA - How does the 2008 MUTCD revisions affect our ITS deployments?

Session F3: Rural VII - An Incremental Approach to Meeting our Safety Needs
Endeavor Room
Moderator: Steve Albert, Western Transportation Institute
Panelists:
- Scott Belcher, ITS America
- Robert Koeberlein, Idaho Transportation Department
- Ralph Robinson, UMTRI
- Nic Ward, Western Transportation Institute

Driver safety in rural America cannot be addressed by a single solution. Vehicle Infrastructure Integration (VII) provides an opportunity to address safety, dynamic road conditions and driver behavior with possible greater benefits to saving lives than with urban counterparts. This session will foster a dialogue and develop a vision of VII development and deployment initiatives among key rural fleet managers and stakeholders. Case studies will be presented and straw man concepts discussed that address day 1 applications, emerging architectures, communication challenges, long-term market and fleet penetration realities, stakeholder needs, institutional issues, operations and maintenance, mechanisms to affect driver behavior and decision-making, benefit-cost and funding. This session will be presented by a panel of experts and will include discussion with the audience.
Human Services Transportation Coordination Workshop
Adventure Room

This workshop will allow small transit and other human service transportation providers to come together to learn from one another how they overcome their barriers and challenges daily to provide service. The first part of the workshop will give an overview of the Mobility Services for All Americans (MSAA) Initiative followed by presentations from the MSAA sites that have been selected to move on to Phase II of the MSAA Demonstration Project.

The second half of the workshop will offer presentations from tribal transportation providers from various regions of the country. They will share how they use ITS to overcome barriers such as the coverage of large geographical regions. This meeting continues until 3:00 pm.

Yehuda Gross, ITS JPO, USDOT
David Levy, Alaska Mobility Coalition
Welcome/Workshop Overview

Yehuda Gross, ITS JPO, USDOT
Doug Birnie, UWR
United We Ride (UWR) and Mobility Services for All Americans (MSAA) Overview

Gerry Hope, Sitka Tribe of Alaska
Sitka Transit of Alaska
Larry Alflen, Zuni Entrepreneurial Enterprises, Inc.
Zuni Entrepreneurial Enterprises
Mary Leary, East Seal Project ACTION
Easter Seal Project ACTION
Bruno Fisher, Montachusett Regional Transit Authority
Fitchburg, Massachusetts MSAA Site Presentation
Presenter not available at time of printing
Kent, Ohio MSAA Site Presentation

9:45 am
BREAK, Mid Deck
This break sponsored by Thompson Engineering Company.
FRIDAY, SEPTEMBER 5TH, continued...

10:00 am
CONCURRENT SESSIONS

Session G3: Applications and Evaluation of VII in a Rural Environment
*Endeavor Room*
Moderator: Andy Stern, Noblis

Andy Stern, Noblis
Introductory Remarks and Session Overview

Brian Burkhard, HNTB Corporation
*An Evaluation of Rural Area Vehicle Infrastructure Integration (VII)*

Jeff Brummond, Iteris, Inc.
*Enabling VII-based Rural Applications - Part 2*

Clint Gregory, California Department of Transportation
*Trans-Sierra Rural VII Along CA State Route 88*

Rural Vehicle Infrastructure Integration or VII can be used to improve weather and pavement information, increase safety and improve the overall driving experience. While emphasis up to now has been on primarily urban deployments, rural applications also exist. This session will provide an overview of VII from USDOT’s perspective followed by examples of possible (future) and deployed (current) rural VII applications.

TRANSIT TRACK

Human Services Transportation Coordination Workshop
(continues)

11:45 am
LUNCH, *Mid Deck*

12:45 pm
CLOSING SESSION/RURAL SPECIAL INTEREST GROUP (SIG)
(subject to change)
*Aft Deck*

Steve Albert, Western Transportation Institute, Rural SIG Chair
*Welcome and 2008 Conference Feedback*

Bill Gouse, ITS America
Heather Young, ITS America
*ITS America Update: Rural ITS at the 2008 Annual Meeting*

Shelley Row, ITS JPO, USDOT (invited)
*Federal Update and Future Rural ITS Programs*

Lisa Nelson, Telvent, ITS Oregon
Dean Deeter, Athey Creek Consultants, ITS Oregon
*2009 NRITS Conference*

Andrew Nichols, Rahall Transportation Institute
*2010 NRITS Conference*

TBD
*2011 NRITS Conference Bids & Vote*

Steve Albert, Western Transportation Institute, Rural SIG Chair
*State of the States Roundtable*

Eddie Castoria, San Diego Motorist Aid Authority
*Motorist Aid of the Future Initiative Preview & Discussion*

Steve Albert, Western Transportation Institute, Rural SIG Chair
*Final Discussion & Adjourn*

TRANSIT TRACK

Human Services Transportation Coordination Workshop
(continues)

1:30 pm
ITS ALASKA MEMBERSHIP MEETING, *Voyager Room*
(overlaps with Closing Session/Rural SIG)

First annual membership meeting of the newly formed Intelligent Transportation Society of Alaska. We welcome non-members to come find out what ITS Alaska is about!

3:00 pm
Conference Adjourns

4:00 - 6:00 pm
MOBILITY SERVICES FOR ALL AMERICANS (MSAA) RECEPTION/WORKING SOCIAL (by invitation)
*Quarter Deck, 10th Floor, Tower I*