Agenda

Sunday, August 24th

12:00 - 6:00 pm
Exhibitor Setup, Great Hall
Exhibitors are asked to setup their exhibits in the Great Hall between 12:00 and 6:00 pm. Staff will be on hand to help you locate your exhibit space and answer any questions you may have.

12:00 - 8:00 pm
Registration, Conference Lobby/PreConvene Area
The Registration Desk will open at 12:00 pm and remain open until 8:00 pm. Please stop by and pick up your registration packets prior to attending the Opening Reception.

6:00 - 8:00 pm
Opening Reception, Poolside
Help us kick off the 2014 NRITS Conference & ITS Heartland Annual Meeting in style! Join attendees and guests at a poolside party on the decks overlooking the Lake. Enjoy hors d’oeuvres and a cash bar.

Exhibit Show, The Great Hall

Monday 7:30 am - 3:00 pm
Tuesday 7:30 am - 4:00 pm
Monday, August 25th

7:00 am
REGISTRATION, Conference Lobby/PreConvene Area
Attendees should pick up their registration packets (if they have not already done so) prior to attending breakfast.

7:30 am
BREAKFAST, Great Hall
A full breakfast buffet will be served each day.

7:30 am
VENDOR AREA OPENS, Great Hall
Please note the following Vendor Show hours:
Monday  7:30 am - 3:00 pm
Tuesday  7:30 am - 4:00 pm

8:30 am
OPENING SESSION, Innsbruck/St. Moritz/Heidelberg
Moderator: Sarah Tracy, ITS Heartland Chapter President, Nebraska Department of Roads

Welcome
• Dennis Wood, Presiding Commissioner for Stone County, Missouri
• Eileen Rackers, Missouri Department of Transportation

Keynote
• TBA, ITS Joint Program Office, USDOT (via video teleconferencing)
• Scott Belcher, ITS America

2014 Best of Rural ITS Finalists and Awards
Presented by Scott Belcher, President, ITS America

Transportation leaders will provide forward-looking insight into the state of transportation at both the state and national level.

9:30 am
Networking Break with Exhibitors, Great Hall
This break sponsored by Boshung America, LLC.

10:20 am - 12:00 pm
CONCURRENT SESSIONS

Heartland1: Intelligent Transportation Systems
Performance Measurement (ITS Heartland Hosted Session), Heidelberg
Moderator(s): Mike Muffoletto, Schneider Electric & Karen Gilbertson, FHWA
Nikola Ivanov, University of Maryland, CATT
Tools Used for Performance Measurement Reporting: RITIS
Ming Shiun Lee, URS Corporation
Use of Performance Measurement Reporting and How to Apply to Improve ITS Operations
This session will explore the wealth of data produced by ITS systems and how to utilize this information for improving operations through performance measurement. It will conclude with an open discussion on data capture for performance and mobility measures in the Heartland States.

Session A1: Design, Deployment & Evaluation of Work Zone ITS: Procurement thru Performance, St. Moritz
Moderator: Jon Jackels, SRF Consulting
Tim Simodynes, Iowa DOT
Design and Deployment of Intelligent Work Zone Systems in Iowa
Praveen Edara, University of Missouri
Evaluation Framework for Work Zone Intelligent Transportation Systems
Nikola Ivanov, University of Maryland, CATT
Managing Performance of a Work Zone Using Probe Data
Despite the improvement of intelligent work zones (IWZ) over the last 15 years, challenges still exist for successful design and deployment. These presentations will address some of the challenges of IWZ systems to meet performance targets and highlight the framework used for evaluating smart work zone systems. This session will also showcase the Work Zone Performance Measurement (WZPM) tool and how it uses probe data to determine work zone performance in real-time as well as provide information on how this type of tool can be utilized to monitor and improve safety and mobility in work zones.
Session A2: Components, Systems and Partnerships: Taking ATIS to the Next Level, Innsbruck
Moderator: Martha Morecock Eddy, Timmons
Adam Lyons, Iteris
Myriad Urban & Rural Uses of Bluetooth-Derived Travel Times
Ryan Saville, TransCore
Alternative to Traditional Highway Advisory Radio
Dave Huft, South Dakota DOT
South Dakota Weather-Responsive Traffic Management System
Jaydeep Chaudhari, Western Transportation Institute
Business Models for Advanced Transportation Information Systems

Advanced Traveler Information Systems (ATIS) dispense relevant information to motorists that may include locations of accidents, weather and road conditions, optimal routes, recommended speeds, lane restrictions, etc. These systems require significant investments in implementation, operation and maintenance. This session will begin by highlighting specific ATIS technologies (HAR and Bluetooth travel time data), progress to integrating traveler information systems into a weather responsive overall traffic management system and end with a discussion on public-private partnerships and the various business models available to finance an ATIS system.

Session A3: Uses of Probe Data, Barcelona/Madrid
Moderator: Jon Nelson, Missouri Department of Transportation
Michael Pack, CATT
Real-World Problems, Real-World Answers: Probe Data Analytics in Action
Stan Young, University of Maryland, CATT on behalf of Elham Sharifi
Using Probe Data for Winter Storm Operational Awareness and Performance Measures
Stan Young, University of Maryland, CATT
Probe Data for Arterial Performance Measures
Kartik Kaushik, University of Maryland, CATT
Using NPMRDS: Lessons Learned

This session will examine the uses and limits of probe data. Probe data is traffic information obtained from vehicle self-reporting positions and speed from GPS devices either in vehicles or on person. Probe data is an economical and universal source of data which can be obtained for any major road in the country. The applications of probe data are similarly vast. It has been used for everything from dynamic message signs, to computing performance measures, and to evaluate the impacts of workzones and major incidents. In addition to such applications, this session will explore probe data fidelity for interrupted-flow arterials, as well as characteristics of the National Performance Measures Research Data Set, an unfiltered probe data source procured by FHWA and made available to states for research and performance measure purposes. The speakers in this sessions will share their experiences in working with probe data, showing areas where it can be used, and places where it presents some challenges.
Session A4: Exploring Opportunities for Connected Vehicles - Listening Session, Milan/Venice
Moderator: Robert Koeberlein, Idaho Transportation Department

Panelists include:
Steve Albert, Western Transportation Institute
Paul Bridge, Vaisala
Dean Deeter, Athey Creek Consultants
Mike Haas, Castle Rock

There has been a significant amount of work addressing the opportunity to use Connected Vehicles in Urban areas. There has been less focus on the needs of rural DOTs and how urban Connected Vehicle applications may be deployed and operated in rural environments. This session will open with an introduction to the ENTERPRISE Pooled Fund Study Program effort that examined the opportunities for state DOT’s to improve highway operations and safety in rural areas through the use of Connected Vehicles sourced data.

A panel discussion on the evolution of the rural driving experience through Connected Vehicle technology will look at:
• Improved traveler information (content and timeliness);
• Improved winter maintenance practices;
• Expedited commercial vehicle operations;
• Improved emergency response; and
• Safety improvements.

Please come and lend your voice to this discussion.

12:00 pm
LUNCH, Great Hall

Sponsor Recognition
Julie Theisen, Incoming ITS Heartland Chapter President, University of North Dakota

ITS Heartland’s Best of ITS Awards
Matt Volz, Transpo Group
Session B1: Technologies that are Improving Transportation Safety, St. Moritz
Moderator: Janelle Borgen, WSB & Associates

Todd Foster, Ver-Mac
*Easy and Quick Deployment of Automated Queue Warning Systems. Understanding the Potential Benefits of Video Analytics to Support Traffic Data Collection*

Mike Barnet, Ministry of Transportation of Ontario
*Incident Detection, and Detection of Wrong-Way Movements*

Lynne Randolph, Southwest Research Institute
*Timely Detection of Wrong Way Drivers*

In this session, explore queue warning systems ease of deployment, features, and warnings and their uses and applications in work zone, incident and maintenance operations. Additionally, detecting and addressing wrong way movements will be investigated through the efforts of the Southwest Research Institute. Last, the Ministry of Transportation of Ontario will share its experiences using video analytics as a tool for gathering the data necessary to support more efficient, safer travel. Attendees will learn how technologies continue to improve transportation safety!

Session B2: Standards Development and Countermeasure Determination, Milan/Venice
Moderator: Tom Hein, Kansas Department of Transportation

Therese Polum, SRF Consulting
*Intelligent Transportation Systems Standards Development - Kansas Department of Transportation,*

Matt Myers, Leidos
*Developing Local Roadway Safety Plans for Missouri Counties*

Panelists:
Shari Hilliard, Kansas DOT
Tom Hein, Kansas DOT
Cathy Jones, Kansas DOT/KC Scout
John Miller, Missouri Department of Transportation

While developing project standards is based on experience, the inconsistency in the standards across projects makes it difficult and costly to apply the standards across the board. Follow Kansas DOT through the development of their own ITS standards for ITS projects from methodology to findings to potential applications. How do you determine which countermeasures will be successful in reducing highway fatalities on local roads? As part of Missouri’s Highway Strategic Safety Plan, the process used to determine countermeasures will be presented. A roundtable discussion will follow the presentations.
Session B3: Data, Tools, and Interpretation, Barcelona/ Madrid
Moderator: Mike Haas, Castle Rock Consultants

Mike P. Wittie, Montana State University
*Heterogeneous Data Integration for Operations and Travel Information Sharing*

Michael Pack, University of Maryland, CATT Lab
*Treeversity2 - Making Sense of Tree Structured Transportation Data*

Michael Pack, University of Maryland, CATT Lab
*Using Transportation Data to Answer Questions We Didn’t Know Existed*

Integrating heterogeneous traveler information data from different data sources continues to be a challenge in the development of the OTIIS system.

The first presentation will focus on the functionality of a data injector to process data from various sources and integrate heterogeneous data for future use of the OTIIS project. The Work Zone Performance Measurement (WZPM) tool will also be showcased and information will be provided on how this type of tool can be utilized both in urban and rural areas to monitor and improve safety and mobility in work zones. In conclusion, a live demo and an overview of the novel, web-based Incident Cluster Explorer (ICE) tool will be given to answer transportation questions.

Session B4: Traffic Operations - Continued Improvements in Safety, Innsbruck
Moderator: Matt Volz, Transpo

Nikola Ivanov, University of Maryland, CATT Lab
*Integrating RWIS, Incident, and Speed/Volume Data for a Complete Situational Awareness Picture*

Bob Koeberlein, Idaho Transportation Department
*Relationship of Winter Road Weather Monitoring to Crash Rates*

Chip Hankley, Wisconsin TOPS Laboratory, University of Wisconsin-Madison
*Wisconsin Winter Roads System, Management Interface Redesign*

In this session, a presentation discussing the merits, potential, and barriers for tighter integration of weather, incident, and traffic monitoring data; a comprehensive review of the correlation between winter road weather monitoring and crash rates; and an overview of a new Winter Roads System (WRS) that is helping to improve the safety of Wisconsin’s roads through an efficient and effective implementation of a winter road condition reporting system.

2:30 pm
ADJOURN

2:45 pm
GROUP ACTIVITY

Evening Social on the Branson Belle Showboat
This event sponsored by Olsson Associates.

Join us aboard the Branson Belle Showboat. Attendees and guests will enjoy a night of dinner, entertainment and networking. This fun filled evening includes an all-inclusive dinner, show, cruise, and transportation!

Transportation will begin loading from the Chateau’s Lobby at 2:30 pm (final bus departs at 3:00 pm) and we anticipate returning to the Chateau no later than 7:00 pm. See Activity Information on page 16 for more details.
Developing Innovative Transportation Solutions

Traffic Management

Adaptive Traffic Control

Traveler Information

System Construction & Integration

System Operations, Management & Maintenance

TRANSCORE
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Tuesday, August 26th

7:00 am
REGISTRATION, Conference Lobby/PreConvene Area
Attendees should pick up their registration packets (if they have not already done so) prior to attending breakfast.

7:30 am
BREAKFAST, Great Hall
A full breakfast buffet will be served each day.

8:30 - 10:00 am
CONCURRENT SESSIONS

**Heartland3: State Updates Part A** (ITS Heartland Hosted Session), Heidelberg
Moderator: Julie Theisen, University of North Dakota

*ITS Heartland Business Update*
Jon Nelson, Missouri Department of Transportation
Real Time Customer Service

Sarah Tracy, NDOR
Nebraska Department of Roads ITS Updates

This session will open with an ITS Heartland Business Update. ITS Heartland members and nonmembers are invited to learn about ITS Heartland activities over the past year, welcome new Board members and see how membership monies are being spent. Following the Business Update, ITS Heartland member states Missouri and Nebraska will share two projects from their states:

- Missouri will provide a synopsis of their efforts to provide real-time customer service. Using traffic probe data from HERE, they have improved their real-time traveler information. A brief discussion about their on-time messaging for weather will also be given.

- Nebraska will provide a summary of ITS activities over the past year with highlights on the ITS Strategic Plan, Rest Area Kiosks and Open Source Device Concepts.

**Session C1: ATIS - the Role of Citizen Reporting and Social Media on Traveler Information, St. Moritz**
Moderator: Barb Blue, Kansas Department of Transportation

Sinclair Stolle, Iowa DOT Systems
*Social Media and the Travelers’ Role in Rural Advanced Traveler Information*

Lisa Miller, UDOT
*UDOT Citizen Reporting Program - One report can help thousands of drivers. Getting good quality data from volunteer reporters on rural routes.*

**Panelist:**
Bob Koeberlein, Idaho Transportation District

Travelers are the most intelligent part of any ITS deployment. However, they are not only consumers of traveler information, but producers of critical information through various apps and social media interfaces.

Come learn how Utah’s Department of Transportation Citizen Reporting Program differs from other state Citizen Reporter programs with the use of trained volunteer personnel. This presentation will include program components, information on early data received from reporters, a discussion of the training plan, and data logic. This session will highlight and discuss performance improvements gained by adding traveler input to ATIS and will look at practical institutional and technical aspects of maximizing value of social media within ATIS.
**Tuesday, August 26th continued**

**8:30 - 10:00 am**

**CONCURRENT SESSIONS continued**

**Session C2: Maximizing Efficiency in Planning, Designing and Bidding of ICWS, Innsbruck**
Moderator: Jon Jackels, SRF Consulting

Willy Sorensen, Iowa DOT
*Design and Deployment of Intersection Conflict Warning Systems in Iowa*

Bill Legg, Washington State Department of Transportation
*Model Systems Engineering and Warrant for Intersection Conflict Warning Systems*

Janelle Borgen, WSB & Associates
*Designing with Maintenance in Mind - Minnesota’s Rural Intersection Conflict Warning Systems (RICWS)*

The Enterprise Transportation Pooled Fund will be on hand to share with attendees the model system requirements they recently developed for intersection conflict warning systems (ICWS). The requirements outline what ICWS must do and set the basis for system design, procurement, installation and operation. Following this introductory presentation, the Iowa Department of Transportation will share its experiences using this systems engineering approach. Minnesota will also share its experiences in requiring ICWS projects to be designed with maintenance in mind. The result? A system that minimizes installation time, minimizes worker danger, offers reliability and longevity with proven components and meets the operational requirements of the request for proposal.

**Session C3: Traffic Management Centers - Exploring New Operational Concepts, Milan/Venice**
Moderator: Jeff Adler, Open Roads Consulting, Inc.

Dan Lukasik, Delcan Technologies, Inc.
*Development of a Virtual TMC Guidebook*

Dave Hufn, South Dakota Department of Transportation
*North/West Passage Collaboration for Rural TMC Operations*

Jason Haynes, City of Springfield
*Introduction to Springfield’s Transportation Management Center (TMC) Tour*

Growing interest in a virtualized Traffic Management Center system has led to the development of Virtual TMC Guidebook. A brief highlight of the Guidebook will open this TMC Session. Also in this session, the North/West Passage has undertaken an effort to develop a rural TMC operational concept for the multistate I-90/I-94 corridor from Wisconsin to Washington State. The results of the project peer exchange and the rural TMC operational concept developed during the project will be presented. Lastly, an introduction to the tour of Springfield’s Transportation Management Center and citywide computerized traffic signal system, which will follow this session, will also be given. Come learn how they have worked to provide a seamless system across multiple jurisdictional boundaries to improve travel times and reduce stops, overall delay, and fuel consumption throughout the community.
USDOT ITS Transit Workshop (Part A): Transit’s Role in Advancing Mobility for All, Barcelona/Madrid

Speakers:
Matthew Lesh, FTA
Mohammed Yousef, FHWA
Mary Leary, FTA

Come learn about current USDOT ITS Transit Program activities and future efforts impacting rural transit. After a welcome from ITS JPO, FTA and local transportation representatives, USDOT program managers will give updates on ITS and connected vehicle transit projects, as well as outlining a vision of the future of individual mobility – Mobility on Demand. USDOT projects that will be represented include: Mobility Services for All Americans (MSAA), Veterans Transportation and Community Living Initiative (VTCLI), and Accessible Transportation Technologies Research Initiative (ATTRI).

10:00 - 10:20 am
BREAK, Great Hall
This break sponsored by HDR.

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Maintainability is never a question when the MG Squared Lowering System is implemented. Whether you have cameras deployed over 200 feet above the waterway on the support structure of the Sunshine Skyway Bridge in Tampa, or high end thermal cameras monitoring U.S. sea ports and military bases, or one of the thousands of cameras mounted to various height concrete and steel poles monitoring traffic along highways worldwide, MG Squared lowering systems provide the safest and most cost effective maintenance solution for your applications.

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Tuesday, August 26th continued

10:00 - 10:20 am
CONCURRENT SESSIONS/TOURS

Heartland4: State Updates Part B (ITS Heartland Hosted Session), Heidelberg
Moderator: Sarah Tracy, Nebraska Department of Roads
Leslie Fowler, Kansas Department of Transportation and Slade Engstrom, TranSystems
Innovative Partnerships in Kansas

Alan Stevenson, Oklahoma Department of Transportation
Fiber Optic Sharing in Oklahoma: Connecting State, Education and Oklahoma DOT Facilities

Mike Jackson, Tim Simodynes and Sinclair Stolle, Office of Traffic Operations, Iowa Department of Transportation
Traffic Operations and ITS

This session continues the ITS Heartland member state updates. Kansas will open with a focus on Innovative Partnerships; including their first Design/Build partnership and ongoing operational partnership with the Kansas Turnpike Authority. Also included will be a discussion on Incident Management.

Oklahoma will highlight their 1000 mile fiber optic project; its connection to all state, educational and ODOT facilities, and the new fiber optic tracking system they are installing to manage the splicing, breaks in fiber, and as-builts.

Iowa DOT will provide a summary update of their activities and progress with Traffic Operations and ITS, including: recent ITS network expansion and device deployments; Wrong-Way vehicle detection; use of statewide 3rd party traffic data; statewide Intelligent Work Zone contract; 511, web site, social media and mobile app enhancements; and continued expansion from an ITS focus toward total Transportation Systems Maintenance and Operations emphasis, including Traffic Incident Management and Emergency Operations.

Session D1: Smart Phones - the New Frontier in ATIS, St. Moritz
Moderator: Adam Lyons, Iteris
Mary Farrell, Information Logistics
A New Option for ATIS: Hands-Free, Eyes-Free, Highway Advisory Smart, Phone Application

Chris Gerecke, Timmons Group
Success Stories - MoDot Traveler Information Mobile Application

Panelists:
Jon Nelson, Missouri Department of Transportation
Martha Morecock Eddy, Timmons Group

In this session, we will discuss how mobile smart phone applications are playing a major role in improving traveler information within a rural environment. Two mobile applications, the GeoTalker Smart Phone Application and the Missouri Department of Transportation’s Traveler Information Application will be highlighted. A roundtable discussion will follow.

Session D2: Intersection Conflict Warning System - New Technology Developments, Innsbruck
Moderator: Sean Campbell, California Department of Transportation
Taek Kwon, University of Minnesota-Duluth
Development of a New Rural Intersection Conflict Warning System: Alert Project

Dan Middleton, Texas A&M Transportation Institute
Using ITS to Improve Safety at Rural High-Speed Intersections

Panelists:
Matt Myers, Leidos
Karl Zimmerman, Texas A&M - Commerce

Intersections, particularly those in high-speed rural settings, have long posed safety challenges to transportation agencies. In addition, safety features often have adverse impacts on efficiency and can be costly. This session will highlight two systems that aim to address these challenges. Come learn about the Advanced LED WaRning System for Rural InTersections (ALERT) System developed by the University of Minnesota and the Detection-Control System (D-CS) developed by Texas A&M Transportation Institute.
USDOT ITS Transit Workshop (Part B): Technology Solutions for Accessible Transportation, Barcelona/Madrid

Speakers:
Mohammed Yousuf, Federal Highway Administration
Matthew Lesh, Federal Transit Authority
Carolina Burnier, Noblis
Amy Jacobi, Noblis

The Accessible Transportation Technologies Research Initiative (ATTRI) program is a new USDOT program that focuses on improving the personal mobility of millions of Americans with mobility, cognitive, visual, and hearing disabilities through the use of innovative technologies and applications. In this session, we will share some examples of technologies being developed and tested in the US and internationally. Your feedback on transportation issues for persons with disabilities, veterans and older adults in rural settings is a valuable part of our strategic planning process. This session is designed to gather feedback and ideas, so bring your ideas and opinions!

TMC Tour
Attendees that signed up for the TMC Tour should meet at the Chateau Lobby prior to loading the bus at 10:15 am. As a reminder, a box lunch will be provided.

Brandon Campbell, Missouri Department of Transportation and Roger Lile, City of Springfield will be giving this tour.

Springfield’s Transportation Management Center (TMC) was established in 1998 by the City of Springfield and Missouri Department of Transportation (MoDOT). City and State personnel work side-by-side at the TMC coordinating traffic flow in the metro area. Lunch will be served enroute and attendees will return to the Chateau at 2:30 pm.

Within the TMC, city and state personnel utilize the citywide computerized traffic signal system, closed-circuit real-time traffic monitoring camera system, 911 CAD system interface, and other useful equipment to address changes in traffic flow patterns and respond to incidents that occur throughout the transportation system. Using the 911 CAD interface and the traffic cameras, TMC operators can identify traffic related incidents and monitor the flow of traffic along major arterials throughout the city. When incidents such as crashes or stalled vehicles occur, TMC operators can relay valuable information to 911 operators who dispatch emergency response personnel to the scene. TMC operators can also modify the traffic signal programming, if necessary, in an effort to alleviate the impact of such incidents to the flow of traffic.

The development of the Transportation Management Center and citywide computerized traffic signal system has enabled both agencies to provide a seamless system across multiple jurisdictional boundaries to improve travel times and reduce stops, overall delay, and fuel consumption throughout the community.

12:00 pm
LUNCH, Great Hall

ITS Heartland Student Awards
Anuj Sharma, University of Nebraska - Lincoln

1:00 pm - 2:30 pm
CONCURRENT SESSIONS

Heartland5: Urban Challenges - Data Integration, Performance Measures and Ramp Metering (ITS Heartland Hosted Session), Heidelberg
Moderator: Kurt Roterling, Affinis

Ahmad Sadegh, Schneider Electric
The Dallas Integrated Corridor Management System (ICMS)

Nikola Ivanov, University of Maryland, CATT Lab
The Impacts of Performance Measures Methodologies on Meaning and Interpretation

Tyler Wiles, HR Green, Inc.
I-235 Ramp Metering in Des Moines, Iowa

One of the major challenges of a multi-agency system is data integration – explore the lessons learned from a complex multi-agency and multi-modal transportation project. With MAP-21 requirements looming, take an in-depth look at some of the most common transportation congestion performance measures and analyze the effect of calculation methodologies. Real-world examples of these differences will be shown at a level appropriate for nearly all audiences. Also in this session will be a presentation of the I-235 Ramp Metering Feasibility Study in Des Moines, Iowa; a 14 mile segment with 36 entrance ramps.
Session E1: Developing Regional ATIS Systems through Multi-Agency Collaboration, St. Mortiz
Moderator: Steve Albert, Western Transportation Institute
Levi Ewan, Western Transportation Institute
Progress of the North-West Passage MCOM OTIIS Project
Panelists:
Bob Koeberlein, Idaho Transportation Department
Bill Legg, Washington State Department of Transportation
Dave Huft, South Dakota Department of Transportation
Cory Johnson, Minnesota Department of Transportation

The Operations and Travel Information Integration Sharing (OTIIS) Project began in early 2013 and will conclude at the end of 2014 as part of the Multistate Corridor Operations and Management (MCOM) Program. The primary goal of OTIIS is to produce an advanced traveler information system (ATIS) for the North-West Passage which includes Interstates 90 and 94 from Washington through Idaho, Montana, Wyoming, North Dakota, South Dakota, and Minnesota ending in Wisconsin. This presentation will include an overview of the MCOM OTIIS project and details about the process used to develop the traveler information system. A roundtable discussion with member states will follow the presentation.

Wednesday, August 27th
1:00 pm - 2:30 pm
CONCURRENT SESSIONS continued

USDOT ITS Transit Workshop (Part C): Challenges in Interagency Transit Services Coordination, Barcelona/ Madrid

Speakers:
Matthew Lesh, FTA
Larry Harman, Bridgewater State University
Chris Zeilinger, CTAA
Gary Shepard, Administrator, Berkshire Regional Transit Authority

With large service areas and projected increases in demand, our ability to provide adequate community transportation services will be stretched to the limit in many locations. Coordinating resources and trips across agencies is one proven way to provide more and better service to the customer without increasing costs. In this session, two major barriers to coordination will be discussed - institutional and data compatibility. Workshop speakers include representatives from selected one-call/one-click transportation resource center projects sponsored by the USDOT Veterans Transportation and Community Living Initiative (VTCLI). These projects adopted new concepts and various ITS applications to improve the quality of public transportation in their respective communities through service coordination and technology integration. A roundtable discussion will follow the presentations.

Diverging Diamond Tour
Attendees that signed up for the Diverging Diamond Tour should meet at the Chateau Lobby prior to loading the bus at 1:00 pm.

The Diverging Diamond Interchange is a design used where a major thoroughfare and a freeway intersect and many drivers wish to make a left turn onto the freeway. The main feature of a Diverging Diamond Interchange involves something that seems unsettling at first because it moves traffic to the “left” side of the thoroughfare. But that shift is made intuitive - and safe - because the movement is controlled at traffic signals and is guided by curved concrete islands, striping and signs.

MoDOT engineers believe the Diverging Diamond Interchange is a good fit for some interchanges where space and funds are limited. The design helps relieve congestion in a tight area and is a quicker, cheaper reconstruction than more conventional interchange projects:

- The existing bridges can remain in place. It may be necessary to widen them, but the most of the structures are in good shape to use with the DDI design.
- Construction is shortened because the existing interchange bridge and ramps can be used with some modifications. This means a shorter time period for traffic disruptions.
- Since much of the existing infrastructure can be used, it is cheaper to build.
- A DDI interchange can reduce traffic congestion by up to 50%.
- Left-turn crashes are eliminated and rear-end crashes reduced.
2:30 pm
BREAK, Great Hall
This break sponsored by Iteris. Swing by to visit your favorite vendors one last time. The Exhibit Show ends at 3:00 pm.

3:00 pm
ITS Heartland Meeting, Barcelona

3:00 pm
Rural SIG Meeting, Madrid
The ITS America Rural Special Interest Group (SIG) will hold a meeting at this time. All NRITS attendees are invited to attend. An agenda follows:

- Welcome and Introductions
- 2014 NRITS meeting Recap
- Awards process - Best of ITS Awards & Student Awards
- NRITS conference in future years
  - Financial management
  - Locations
  - Attendance increasing
- FHWA Safety Center of Excellence for Rural and Surface Transportation Announcement
- Round-table sharing of new initiative’s (time permitting)
- Questions/comments

3:00 pm
INDIVIDUAL ACTIVITIES/ON YOUR OWN
Please see page 16 for individual activity information and departure details.

3:00 pm
Group 1: Branson Zipline and Canopy Tours.

3:30 pm
Group 2: Talking Rocks Caverns Tour with Danna’s BBQ

5:00 pm
Group 3: The show SIX.

Wednesday, August 27th

7:00 am
REGISTRATION, Conference Lobby/PreConvene Area
Attendees should pick up their registration packets (if they have not already done so) prior to attending breakfast.

7:30 am
BREAKFAST, Windsor
A full breakfast buffet will be served each day.

8:30 - 10:00 am
CONCURRENT SESSIONS

Heartland6: Experience with the Organizing for Reliability Capability Maturity Assessment (ITS Heartland Hosted Session), St. Mortiz
Moderator: Erin Flanigan, Cambridge Systematics, Inc.

Speakers:
Leslie Fowler, Kansas Department of Transportation
Mike Jackson, Iowa Department of Transportation
Jon Nelson, Missouri Department of Transportation

This session will provide an overall introduction to the SHRP 2 Organizing for Reliability; Capability Maturity Self Assessment workshop and implementation planning process currently underway. The purpose of the Workshop is to raise awareness of the opportunities for improving the effectiveness of state and local Transportation Systems Management and Operations (TSM&O) activities. The Workshop is sponsored by the State DOTs (and other sponsors such as regional MPOs) with support from FHWA and AASHTO. It is part of a formal process for which States and Regions commit to further improvement of TSM&O activities. Throughout 2013/2014 the FHWA/ AASHTO will be working with over 20 states on this process. This session will provide summaries from Kansas, Missouri, and Iowa on their experience with this program.
Wednesday, August 27th continued

8:30 - 10:00 am
CONCURRENT SESSIONS continued

Session F1: Solutions in Freight: Safe Movement of Goods, Milan/Venice
Moderator: Ron Hall, Kansas Department of Transportation
Tony Leingang, Washington State Department of Transportation
Critical Freight Detour Pass System
Mike Haas, Castle Rock Consultants
Advanced Traveler Information Systems for Freight
James Daley, Washington State Department of Transportation
Organized Chain-Up: Bringing Order to Chaos

Freight is a driving component of our national economy and a major focus area for transportation management, especially in rural areas. The Condition Acquisition and Reporting System (CARS) – Truckers is a custom suite of traveler information tools specifically geared to the needs of motor carriers. The features of the CARS-Truckers webpage and the feedback is has received from its users will be discussed.

Additionally, come learn how Washington State DOT’s South Central Region turned towards ITS to find a solution for the chaotic situation that arises when hundreds of trucks an hour need to chain-up to get over Snoqualmie Pass an hour east of Seattle and the Puget Sound area – the 8th largest port in the country. While this story has not been fully written, the lessons learned will benefit anyone looking to deploy a “never been done before” system. This session will also highlight WSDOTs Critical Freight Detour Pass System which allows permitted controlled authorized freight movement into disaster areas.

Session F2: Vendor Technology Session - Cutting Edge Technology for Your Needs (Part A), Heidelberg
Moderator: Tim Bean, Mississippi Department of Transportation
Eric Cottone, Boschung America, LLC
Road Weather Technology - Pavement Sensor Types and Applications
Brett Hansen, High Sierra Electronics, Inc.
Mobile IceSight Surface Condition Sensor
Jon Tarleton, Vaisala
Road Weather Services
John Mueller, ADDCO
ADDCO Brick Modular Dynamic Message Sign - New Applications
Matt Huning, Swarco
VMS For Roadway Application
Doug Ripley, Traffic Control Corporation
Variable Curve Warning Signs

TSAG: Emergency Responder, Distracted Driving and First Net Applications, Barcelona/Madrid
Moderator: TBA
Christine Yager, Texas A&M Transportation Institute
Distracted driving is an issue everywhere, but especially problematic and ill-understood in emergency vehicle operations. Understanding the distracted driving problems from the emergency responder’s perspective can be useful information as transportation professionals interact with First and Emergency Responders.

Kevin McGinnis, MPS, EMT-P
First Net’s mission is to develop, build and operate the country’s first nationwide broadband network dedicated to public safety. Rural emergencies pose coverage challenges for communications especially when life-threatening emergencies happen in rural or wilderness areas. The presentation will detail the latest update and feature some new apps that can help Emergency Responders in the near future.

10:00 - 10:20 am
BREAK, Windsor
This event sponsored by Transpo Group.
**10:15- 11:45 am**

**CONCURRENT SESSIONS**

**Session G1:** Professional Development Opportunities - Developing Your Skills and those of Your Organization, *Milan/Venice*

Moderator(s): Jessica Sherwood, Nebraska Department of Roads

Doug Galarus, Western Transportation Institute

*Professional Capacity Building (PCB) for Communications*

Cheryl Lowrance, Noblis

*ITS Professional Capacity Building Program: Building the Future Transportation Workforce*

Carolina Burnier, Noblis & Cheryl Lowrance, Noblis

*Knowledge Resources - Benefits, Costs and Lessons Learned Web Site*

Attendees to this session will learn about professional development opportunities available through online sources (USDOT’s Knowledge Resources), the Professional Capacity Building (PCB) Program as well as PCB for Communications. This is a great session for managers, as well as those interested in professional development. Come and learn what is available to you and/or your employees!

**Session G2:** MDSS - Pioneering A New Way Forward, *St. Moritz*

Moderator: Ben Hershey, Iteris

Mark Neill, Delcan Technologies, Inc.

*AVL/GPS Use for Winter Maintenance*

Dave Huf, South Dakota Department of Transportation

*MDSS Pooled Fund Study Update*

Today, Maintenance Decision Support System (MDSS) systems are considered a vital part of most Department of Transportation’ toolboxes of technologies. As they continue to evolve, new software (and hardware) integration becomes possible, improving the experience for both DOT employees and the traveling public. This session will look at efforts by the MDSS Pooled Fund Study and Michigan Department of Transportation and will conclude with a roundtable discussion.

**Session G3:** Vendor Technology Session - Cutting Edge Technology for Your Needs (Part B), *Heidelberg*

Moderator: Alan Stevenson, Oklahoma Department of Transportation

Sean Mulligan, Delcan - a Parsons Company

*AVL/GPS Use for Winter Maintenance*

Lester Miyasaki, Wireless Technology, Inc.

*WTI CCTV Cameras*

John Steadman, Southern Manufacturing

*Remote Monitoring of ITS Enclosures: Remote Management of Devices*

Mark Fayta, Iteris

*Vector*

Susan Marshall, ELTEC

*ABC’s of Solar Power*

**11:45 am**

**LUNCH, Windsor**

**12:30 pm**

**ICE CREAM SOCIAL, Windsor**

I scream, you scream, we all scream for ICE CREAM! What’s a party without ice cream? Immediately following our Wednesday luncheon, all attendees are encouraged to come celebrate and network with colleagues at our Ice Cream Social. There will be a wide selection of flavors and toppings to choose from.

**1:00 pm**

**NRITS ANNUAL GOLF TOURNAMENT**

This event sponsored by General Traffic Controls and Skyline Products. See page 16 for more information.