Sunday, August 28, 2011

8:30 AM
ENTERPRISE MEETING, Bay 6

4:00 - 8:00 pm
REGISTRATION, Conference Center Lobby

The Registration Desk will open at 4:00 pm and remain open until 8:00 pm. Attendees are invited to stop by and pick up their registration packets prior to attending the Opening Reception.

4:00 - 8:00 pm
VENDOR SETUP, Bays 3-5 & Conference Center Lobby

Vendors are asked to setup their exhibits in Bays 3-5 and the Conference Center Lobby area during this time. Staff will be on hand to help you locate your exhibit space and answer any questions you might have.

4:00 - 8:00 pm
POSTER SESSION SETUP, Bay 3

Presenters participating in the Poster Session are encouraged to setup their posters at this time. Staff will be on hand to help you locate your poster space and answer any questions you might have.

6:00 - 8:00 pm
OPENING RECEPTION, Outside Plaza

This event sponsored by Open Roads Consulting

Attendees and guests are invited to a quiet evening on the shores of Lake Coeur d'Alene as part of the NRITS Opening Reception. Held outside the Coeur d'Alene Resort on the Outside Plaza, enjoy hors d'oeuvres from 6:00-8:00 pm while socializing with other conference attendees as we begin another great National Rural ITS Conference! A cash bar will also be available.

Monday, August 29, 2011

7:00 am
REGISTRATION, Conference Center Lobby

Attendees should pick up their registration packets (if they have not already done so) prior to attending breakfast.

7:15 am
BREAKFAST, Bay 3

A full breakfast buffet will be served each day.

7:15 am
VENDOR AREA OPENS, Bays 3 - 5

Please note the following Vendor Show hours:
• Monday, August 2nd, 7:15 am - 5:00 pm
• Tuesday, August 3rd, 7:30 am - 4:00 pm

8:30 am
OPENING SESSION, Bay 2

Moderator: Mark Owens, Meridian Environmental Technology, Inc. and ITS Rocky Mountain Chapter President

Welcome
• Brian Ness, Director, Idaho Transportation Department

Keynote
• Shelley Row, Director, ITS Joint Program Office, USDOT

Transportation leaders will provide forward-looking insight into transportation breakthroughs – both technology and funding related – that have recently or are currently occurring at the national level. In particular, attendees will learn about how these efforts impact the rural ITS community.

Sponsor Recognition
Presented by Mark Owens, Meridian Environmental Technology, Inc. and ITS Rocky Mountain Chapter President

Student Scholarship Awards
Presented by Shelley Row, Director, ITS Joint Program Office, USDOT

2011 Best of Rural ITS Awards
Presented by Steve Albert, Director, Western Transportation Institute and Rural SIG Chair
Monday, August 29, 2011

9:45 am
ITS INFORMATION ASSEMBLY, Bays 3-5

Welcome to the ITS Information Assembly! In addition to the many exhibitors that will be on site sharing the latest breakthroughs in technology, a Poster Session will also be available. As an attendee, you can peruse the exhibits and then take advantage of the Poster Session to visit one-on-one with the authors/presenters. The ITS Information Assembly continues until lunch to allow ample time for individuals to interact and network.

Posters to be presented during Assembly:
- John Hansen, AM Signal, Inc.
  And the winner of the Oscar is....
  and
  HAR-HD: This ain’t your father’s HAR (Highway Advisory Radio)
- William Melendez, Wisconsin Traffic Operations and Safety Laboratory
  Improving Wisconsin Real-Time Information through the Traffic Operations Infrastructure Plan and the 511 System
- Scott Nodes, Arizona Department of Transportation
  Public Works Role in Emergency Management
- Ray Schreiber, Sensys Networks, Inc.
  A Wrong Way Ramp Detection System
- Rhonda Young, University of Wyoming
  Use of Travel Times on Rural Interstates for Road and Weather Conditions
- Mandar Khanal, Boise State University
  Verifying Non-Invasive Pavement Temperature Sensor Measurements
- Mike Volling, Sensys Networks, Inc.
  The World goes Wireless: Wireless Sensor Networks Transforming Transportation

9:45 am
Rural Two-Lane Highway Traffic Models: HCM 2010 and now CORSIM, North Cape Bay

Experts interested in two-lane highway traffic simulation will discuss recent developments and future directions that will enable engineers and researchers to evaluate two-lane highway operations in a variety of settings ranging from very rural to frequent signalized and unsignalized intersections. Scott Washburn (University of Florida) will present a two-lane highway analysis tool he developed for the CORSIM simulation environment. Michael Dixon (University of Idaho) will present an overview of the new HCM 2010 two-lane highway procedure. Discussion specifics will range from when to use the CORSIM two-lane highway simulation verses the HCM 2010 procedure to considering the effects of signalized intersections on rural two-lane highway operations.

11:30 am
LUNCH, Bays 2-3
This lunch sponsored by Trapeze Group

Luncheon Speakers:
- Joerg “Nu” Rosenbohm, ITS America
- Shelley Row, Director, ITS Joint Program Office, USDOT

1:00 pm
CONCURRENT SESSIONS/TOUR

Session A1: ITS Planning Moves Forward - Lessons from Mexico and the US Department of Interior
Kidd Island Bay
Moderator: KK Saxena, Kimley-Horn & Associates

Matthew Schiemer, Gannet Fleming, Inc.
Development of Mexico’s National ITS Strategic Plan

Michael Clark, US Department of Transportation
Intelligent Transportation Systems in National Parks & DOI Public Lands

This session will provide unique insight into ITS planning at both a national and agency level. In particular, attendees will follow Mexico as it unfolds and builds on its National ITS Architecture completed in 2005. Also presented will be a study of ITS in National Parks and other Department of Interior lands; including identification of needs, cost/benefit, staffing, etc. The results of this study has implications on how ITS is viewed within public lands units, in regions and states with dynamic public lands activity. It also provides pragmatic guidance for public lands units as to which technologies may offer the greatest returns based on specific unit characteristics. A roundtable discussion will follow the presentations to maximize interaction and question/answer time with presenters.
Session A2: Clarus’ Impact on RWIS, Casco Bay
Moderator: Tim Bean, Mississippi Department of Transportation
Ray Murphy, Federal Highway Administration, USDOT
Weather and the Connected Vehicle
Ahmed Abdel-Rahim, NIATT, University of Idaho
A Real-Time Weather Response System
Paul Pisano, Federal Highway Administration, USDOT (presented by Ray Murphy, FHWA/USDOT)
Clarus Regional Demonstrations

Clarus is an FHWA R&D initiative that provides near real-time atmospheric and pavement observations from participating states’ environmental sensor stations. This session will provide insight into recent enhancements, in particular Connected Vehicle integration, and demonstration projects. Individuals will learn more about Clarus and hear about real-world applications of this program.

TOUR: Spokane Regional Traffic Management Center Tour/Session
Please meet in front of the Registration Desk for loading into the bus for the tour. NOTE that the presentation “TMC Web Based Applications” will be given onsite at the Spokane Regional Transportation Management Center.

Presentation:
Operational needs of traffic management centers are often very unique, making software purchases or development difficult. The Washington State Department of Transportation (WSDOT) has developed several web based applications ‘in house’ for use by their TMCs. This presentation by Monica Harwood, Washington State Department of Transportation, will highlight several of these applications and will also provide an overview of what attendees can expect in the Spokane Regional Transportation Management Center.

Tour:
The Spokane Regional Transportation Management Center (SRTMC) is a collaboration of seven jurisdictions responsible for operating all of the ITS equipment within the Spokane Metropolitan and outlying areas. Come view the center and take part in discussion about the advantages and challenges of co-owned and managed ITS infrastructure.

SAFETY TRACK
Session S1: USDOT Addresses Safety - RESCUME and Rural Safety Innovation Program, Bay 1A/1B
Moderator: Bill Legg, Washington State Department of Transportation
Doug Galarus, Western Transportation Institute
Augmented Speed Enforcement: Safety Cones from a Technical Perspective
Ted Smith, Noblis
Response, Emergency Staging and Communications, Uniform Management and Evacuation (R.E.S.C.U.M.E.), An Overview and Status Update
Dean Deeter, Athey Creek Consultants
Evaluating the USDOT Rural Safety Initiatives Program (RSIP) – Evaluation Approach and Preliminary Lessons Learned

Rural roads carry approximately 34 percent of the vehicle-miles traveled in the United States, yet annually account for nearly 56 percent of the fatalities. To address the safety challenges associated with rural travel, the U.S. Department of Transportation (USDOT) is funding the Response, Emergency Staging and Communications, Uniform Management, and Evacuation (RESCUME) and the Rural Safety Innovation Program (RSIP).

RESCUME is a set of high-priority transformative applications identified by the USDOT’s Mobility Program for development in 2011. The focus of RESCUME is to research, refine and potentially develop enhancements to, and support utilization of advanced emergency communication and technology systems. The RSIP was initiated in 2008 with the goal of improving rural road safety by assisting rural communities in addressing highway safety through the development and testing of innovative ITS solutions. This session will provide an overview and status update of both programs.
Monday, August 29, 2011

1:00 pm
CONCURRENT SESSIONS/TOUR

TRANSIT TRACK
Session T1: Transit Technology Enabling Improved Coordination, Bay 6
Moderator: Gwo-Wei Tornog, Noblis
Heather Wheeler, Community Transportation
I-way: Idaho’s One-Stop Shop
Chris Larsen, The Software Ranch, LLC
Linx: A Case Study of Rural ITS Technology Development
Aletha Goodine, Federal Transit Authority
Successful Deployments of ITS for Coordinated Community Transportation Services in Rural Areas

This session will highlight how three different transit initiatives are being utilized to make public transportation and mobility more accessible to all with “lessons learned” for those implementing transit technologies in rural communities.

2:30 pm
BREAK, Bays 3-5
This break sponsored by Western Systems, Inc.

2:50 pm
CONCURRENT SESSIONS/TOUR

Session B1: Multi-Agency Coordination - Moving Forward in a Challenging Economy, Kidd Island Bay
Moderator: Marshall Elizer, Gresham, Smith & Partners
Ted Trepanier, Inrix, Inc.
Cost Effective Implementation of the New Real-Time System Management Information Program (RTSMIP, formerly known as Section 1201)
Deanne Haase, Kimley-Horn & Associates
I-80 Winter Operations Coalition Advances Multi-State Operations Strategies
Bill Legg, Washington State Department of Transportation
Ginny Crowson, Athey Creek Consultants
ENTERPRISE Snapshot: Developing Consistency in ITS Safety Solutions - Intersection Warning Systems

Leveraging work dollars and building partnerships can extend both the reach and life of projects. This session will look at the recent (November 2010) Final Rulemaking for establishment of a Real-Time System Management Information Program (RTSMIP). Specifically, it will discuss how states can leverage work being done in the private sector to cost effectively meet the goals of the RTSMIP. Also included in this session, the work of the I-80 coalition and it’s partnership between five western states as well as the ENTERPRISE Group.
Session B2: RWIS Integration and Applications, Casco Bay
Moderator: Mark Owens, Meridian Environmental Technology, Inc.

Doug Galarus, Western Transportation Institute, Montana State University
Integration of Aviation Weather Information Systems with Roadside Weather Information Systems for Rural Air Fields and Heliports

Michael Howarth, Intelligent Devices
Latest Technologies in Mobile Data Collection for Winter Road Maintenance

Ben Hershey, Meridian Environmental Technology
Maintenance Decision Support System (MDSS): Beyond Winter Maintenance

RWIS systems have been in place for years and have proven their value numerous times. However, technology is taking their usefulness to the next level. This session will discuss three projects: (1) integration of aviation weather information systems with RWIS for rural air fields and helicopters, (2) latest technologies in mobile data collection for winter road maintenance, and (3) moving beyond winter maintenance for maintenance decision support systems (MDSS).

TOUR: Spokane Regional Traffic Management Center Tour
Continues until 4:30 pm.

SAFETY TRACK
Session S2: ITS Safety Applications in a Rural Environment Bay 1A/1B
Moderator: Acey Roberts, Mississippi Department of Transportation

Thad Hoffman, ITERIS
Idaho Port-of-Entry Ramp Monitoring

Jon Jackels, Minnesota Department of Transportation
State of the Art of ITS to Address Non-Signalized Rural Intersection Safety in Minnesota

David Veneziano, Western Transportation Institute, Montana State University
Development of Radar Speed Sign Warrants

This session will cover a broad spectrum of safety applications including; development of radar speed sign warrants; port-of-entry ramp monitoring, and intersection safety. Projects cover several states including California, Idaho and Minnesota.

TRANSIT TRACK
Session T2: Connected Vehicle Program Using Transit Vehicles, Bay 6
Moderator: Mike Haas, Haas Systems

Bob Koeberlein, Idaho Transportation Department
Rural Connected Vehicles in Eastern Idaho

Gwo-Wei Torng, Noblis
Transit Connected Vehicles for Rural Communities

Matt Burt, Battelle
The Special Challenges of Rural Transit & Implications for Connected Vehicles

Connected Vehicle is a multimodal initiative that aims to enable safe, interoperable networked wireless communication among vehicles, the infrastructure and passenger’s personal communications devices. This session will provide an overview and applications of Connected Vehicle within the context of transit and its potential to benefit the safety of rural transit users.

4:30 pm
Adjourn

6:30 pm
Sunset Dinner Cruise aboard the Mish-an-Nock
Attendees and guests who registered for this activity will enjoy an evening aboard the Mish-an-Nock for a two-hour sunset cruise on Lake Coeur d’Alene. Built in 1968 and recently remodeled, the Mish-an-Nock is 107 feet long and 33 feet wide. In addition to the gorgeous lake views that can be enjoyed from inside the boat, attendees can also take in the views from the open air outside decks. A dinner buffet prepared by the chefs at The Coeur d’Alene resort will feed guests. This private cruise will depart from Independence Point, located just west of The Coeur d’Alene Resort, adjacent to the clock tower and City Park in Downtown Coeur d’Alene. Boarding will begin at 6:30 pm and we will set sail at 7:00 pm. The boat will return to dock at approximately 9:00 pm.
Tuesday, August 30, 2011

7:00 am
REGISTRATION, Conference Center Lobby
Attendees should pickup their registration packets (if they have not already done so) prior to attending breakfast.

7:30 am
BREAKFAST, Bay 3
A full breakfast buffet will be served each day.

7:30 am
VENDOR AREA OPENS, Bays 3 - 5
This is the last full day to visit with vendors!

8:30 am
CONCURRENT SESSIONS/WORKSHOP

Session C1: 511 - Involving the Individual, North Cape Bay
Moderator: Leslie Fowler, Kansas Department of Transportation
Dean Deeter, Athey Creek Consultants
Enhancing and Expanding Citizen Assisted Reporting
Peter Davies, Castle Rock Consultants
Personalized 511 Services
David Jones, HNTB
PUSH 511
As the breadth and depth of state and regional 511 has grown, so has the opportunity for individual participation in the system via personalized services and condition reporting. This session will look at how three 511 systems are involving the individual - whether it is to collect data or to adapt a system to provide more personalized services. Two of the projects involve Pooled Fund studies and funding mechanisms for these projects will also be touched upon.

Session C2: Ensuring Superior Traffic Incident Management
Kidd Island Bay
Moderator: Matt Schiemer, Gannett Fleming
Rita Brohman, Delcan Corporation
Practical Traffic Incident Management
Mike Haas, Haas Systems
Good to Great Incident Management
Panelist:
John Corbin, Wisconsin, Chair, National Incident Management Coalition
This combined lecture/roundtable session will include presentations and discussion by national Traffic Incident Management (TIM) experts. It will include practical principals that can be used to enhance and improve your TIM program and will provide real life examples from successful programs.

Session C3: Cooperative Transportation Systems (Connected Vehicle) Pooled Fund Study, Casco Bay
**This session is the first of three sessions that make up a Connected Vehicle mini-track. Look for Sessions D3 and E3 to continue the topic.***
Moderator: Melissa Lance, Virginia Department of Transportation
Speakers:
- Melissa Lance, Virginia Department of Transportation
- Bill Legg, Washington State Department of Transportation
- Rick McDonough, New York Department of Transportation
Commercial Vehicle ITS Director
The Session on Cooperative Transportation Systems Pooled Fund Study (PFS) will provide an overview of the PFS, which is a collaborative research effort among 10 transportation agencies where the primary goal is to advance “connected vehicle to infrastructure” technology and applications to improve safety and mobility on the nation’s roadways. This session will walk through the projects and research that have been conducted to date and provide information on how other organizations can participate in the second phase of the study.
SAFETY TRACK
Transportation Safety Advancement Group (TSAG) Case Studies Workshop - Idaho US 12 Diesel Fuel Spill Bay 1A/1B

Background
This Case Studies Workshop and webinar is offered by the Transportation Safety Advancement Group (TSAG) in association with the US DOT Research and Innovative Technology Administration (RITA) ITS Joint Program Office; the National Rural ITS (NRITS) Conference; and, ITS America's Safety Forum. Through its Case Studies Workshops Series, TSAG invites involved public safety professionals to provide their overview of actual events or major incidents for the purpose of identifying incident management strategies and associated technology applications and emergency responder successes, failures, and lessons-learned. The workshop will be presented to a live audience in conjunction with the NRITS 2011 Annual Meeting in Coeur d’Alene, Idaho, plus to webinar participants in association with ITS America’s Safety Forum. Webinar participants will be invited to submit written questions for discussion during scheduled workshop question and answer periods.

An audio of the workshop proceedings, synchronized with visual presentations, will be available through the TSAG Website (www.tsag-its.org) approximately 4 weeks after the workshop.

TSAG Case Study Workshop Series Concept and Objectives
The TSAG Case Studies Workshop Series proposes case studies of actual major events or incidents, with a primary focus on primary emergency responder groups including Emergency Medical Services, Fire & Rescue, Law Enforcement, and Transportation Operations. Workshop objectives revolve around the TSAG promoting technology for public safety strategic direction and focus. Through reviews of actual major incidents or events, Case Studies Workshops are designed to engage involved emergency response professionals for the purpose of:

• Clarifying actual circumstances of the event / incident
• Discussing established response protocols and procedures
• Reviewing public safety technology applications
• Identifying unique management and response circumstances and challenges
• Reviewing successes, failures, and lessons-learned

About This Case Study
This Case Studies Workshop will review a major diesel fuel spill on Idaho’s US 12 and the emergency response by local, state and federal responders, including first responders and environmental and hazmat agencies. The crash occurred at 8:52 am on US12@136 as a westbound fuel tanker truck failed to negotiate a turn. Idaho State Police estimated that 7,500 gallons of diesel fuel were spilled near the Lochsa River. The Lochsa was named a Scenic River by the U.S. Congress as part of its 1968 National Wild and Scenic Rivers Act. The Lochsa River and its tributaries have no dams, and its flow is unregulated. In late spring, mid-May to mid-June, the Lochsa River is rated as among the world’s best for its continuous whitewater. Shortly after the crash, multiple agencies were alerted. These included, in addition to the Idaho Transportation Department and Idaho County Sheriffs’ Office, the US EPA, DEQ, Fish and Game, Forest Service, a Regional Response Team, and the Nez Perce Tribe.

Workshop presenters will provide overviews of Idaho emergency planning and operations protocols, plus discussion of after incident assessments of response strategies, technology applications in pre-incident, incident, and post incident settings directed at addressing incident management successes, failures and lessons learned.

Workshop Coordinator: Bryan D. Smith, Emergency Program Manager, Idaho Transportation Department

Workshop Host: Dia Gainor, Chair, Transportation Safety Advancement Group, Executive Director, National Association of State EMS Officials

Presenters:
• Earl Liverman, US Environmental Protection Agency
• Kevin Brackney, Nez Perce Tribe
• Gayle Osborne, Idaho Department of Environmental Quality

TRANSIT TRACK
Session T3: Emerging Technology for Rural Transit Providers (Part A), Bay 6
Moderator: Pam O’Brien, DKS Associates

Fred Kitchener, McFarland Management
Technology Applications are Improving Operations for Idaho Transit Providers

Tom Coogan, RouteMatch Software
Statewide Public Transit Technologies at Work in Idaho

Keith Forstall, Trapeze Group
Integrating Paratransit Services into a Regular Service Schedule

This session will begin by describing the Idaho public transportation landscape which encourages technology as an enabler of their program goals. This session will demonstrate deployed systems from both Idaho and other states and describe the benefits of each. For those considering similar technology applications, the session will also address the challenges encountered and the approaches implemented to ensure success and will provide an overview and context to better understand the presentations that follow in Session T4.
Adventures in ITS 2011

2011 National Rural ITS Conference

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**Agenda**

**Tuesday, August 30, 2011**

10:00 am
**BREAK, Bays 3-5**
This break sponsored by Rhythm Engineering

10:20 am
**CONCURRENT SESSIONS/WORKSHOP**

**Session D1: Rural Travel Times Implementation**
**North Cape Bay**
Moderator: Jim Larsen, Ada County Highway District
Jon Jackels, Minnesota Department of Transportation
INRIX Data in Work Zones A Case Study on I-35 in Minnesota
Tim Janes, Advanced Traffic Products
Blue Toad for MAC Address reading for Travel Times
Lynne Randolph, Southwest Research Institute
Investigation into the Usage of Bluetooth Signals for Roadway Speed Calculations

In today’s ever changing technology-based world, new applications for traveler information are constantly emerging. This session will look at four different projects including: (1) using third party data to provide arterial real time traveler information to motorists; (2) uses for Bluetooth technologies; and (3) technology comparisons for collecting volume, speed and travel time data in both urban and rural environments.

**Session D2: CVO - Keeping Freight Moving, Kidd Island Bay**
Moderator: Carl Kuhnke, ITS Canada
Edward McCormack, University of Washington
Using Commercial GPS Data to Quantify Truck Performance on Rural Roads
Dan Middelton, Texas Transportation Institute
Using Designated Routes to Keep Oversize/Overweight Freight Moving in Texas
Roy Czinku, International Road Dynamics
Virtual Weigh Station Technology Best Practices
Tracey Manzo, Cheval Research
Lisa Nelson, Telvent
Bringing Vital CVO Information to San Diego and Imperial Counties' Truckers

The movement of freight is critical to maintaining a vibrant local, regional and national economy. This session will highlight four different projects that are facilitating commercial vehicle operations. From ensuring that traveler information systems provide key CVO information to utilizing GPS to quantify truck performance to weight issues (both utilization of designated routes for oversize/overweight freight and virtual weigh stations), this session is a must attend for those working in the CVO arena.

**Session D3: Connected Vehicles - Perspectives and Experience, Casco Bay**
Moderator: Jim Wright, AASHTO

Panelists:
- Barbara Wendling, Mercedes-Benz Research & Development North America, Inc.
- Rick McDonough NYDOT Commercial Vehicle ITS Director
- Tao Zhang, Telecordia
- Chris Hill, Mixon & Hill

The purpose of this session is to provide a variety of viewpoints and experiences in the connected vehicle program. Speakers will discuss work from the automobile industry, the telecommunications industry, commercial vehicle demonstrations and the AASHTO Deployment Plan.
SAFETY TRACK
Transportation Safety Advancement Group (TSAG) Case Studies Workshop - Idaho US 12 Diesel Fuel Spill continues Bay 1A/1B
See page 20 for a full description of this workshop.

TRANSIT TRACK
Session T4: Emerging Technology for Rural Transit (Part B) Bay 6
Moderator: Acey Roberts, Mississippi Department of Transportation

Aaron Antrim, Trillium Solutions, Inc
Using Google Maps for Transit Information in a Rural 511 System (San Bernardino and Riverside Counties)

Peter Davies and Kristin Virshbo, Castle Rock Consultants
Modes-Update: A Shared GTFS Editor for Rural Transit Providers

Tom Smith, Trapeze Group
Affordable Traveler Information Systems

Travis Samms, Trapeze Group
Emerging Technologies: Combine schedule and real-time information with passenger preferences to customize information services offered to passengers

This session will delve into the different technologies currently available to transit agencies. These include using Google Transit, Modes (a real-time transit tracking and incident reporting system developed by Castle Rock), DriverMate (handheld devices used to connect vehicles/dispatch center) and integration of smartphone technology. Each of these technologies has been designed or adapted for use in rural/remote areas.

12:00 pm
LUNCH, Bays 2-3

Luncheon Program: NG911 What's Next Project Report

Shelley Row, Director, ITS Joint Program Office, USDOT
Linda Dodge, Chief of Staff, Public Safety Programs Manager, ITS Joint Program Office
Laurie Flaherty, NG9-1-1 Program Lead, National Highway Traffic Safety Administration
Dia Gainor, Chair, Transportation Safety Advancement Group, Executive Director, National Association of State EMS Officials

The Next Generation 9-1-1 Initiative focused on the research required to produce a design for a next generation 9-1-1 system. The goal was to provide a system that is capable of providing a wider range of voice, data, and video transmission from different types of communication devices into the public safety answering points (PSAPs) and onto emergency responder networks. In recent months the Transportation Safety Advancement Group (TSAG) supported the Initiative through its NG9-1-1 What’s Next project. Through the project, TSAG enlisted recognized professionals representing four emergency responder groups, including law enforcement, emergency medical services, fire and rescue, and transportation operations to identify priority data transmissions to field emergency responders. This presentation reports the findings of the NG9-1-1 What’s Next project.
Tuesday, August 30, 2011

1:00 pm

CONCURRENT SESSIONS

Session E1: Vendor Session - Cutting Edge Technology for Your Needs, North Cape Bay
Moderator: Pam O’Brien, DKS Associates
Jon Tarleton, Vaisala
Knowing What You Need to Know, and Making Sure They Hear It
Ed Salkaus, Kar-Gor, Inc
Traficon Video Detection
Tim Janes, Advanced Traffic Products
Wavetronix SmartSensors Utilizing Digital Wave Radar for accurate Counts, Speeds, Sizes of Vehicles
Susan Marshall, Electrotechnics Corporation
Rectangular Rapid Flashing Beacons: Pedestrian Safety Improved
Stewart Wilkerson, LeddarTech
Leddar™: 3D Detection Technology for Enhanced Mobility

This session was set aside to provide vendors an opportunity to present equipment, service or technology specific information to NRITS attendees. Five companies will be participating and will discuss: Traficon Video Detection, Wavetronix SmartSensors, LeddarTM 3D Detection Technology, Electrotechnics Corporation Rapid Flashing Beacons (for pedestrians), and Vaisala’s weather information applications.

Session E2: Wildlife Detection - Which System is Best for You? Kidd Island Bay
Moderator: Brian Christensen, Horrocks Engineers
Rob Ament, Western Transportation Institute, Montana State University
The Roadkill Observation Collection System: Development of an Integrated Personal Digital Assistant (PDA) with a Global Positioning System (GPS) to Gather Standardized Information
Mark Gallagher, SRF Consulting Group, Inc.
Improvements in Wildlife Detection and Warning Systems
Jon Jackels, Minnesota Department of Transportation
Minnesota’s Experience with Deer Warning Systems
Marcel Huijser, Western Transportation Institute, Montana State University
The Reliability of Two New Animal Detection Systems and Recommended Requirements for System Reliability

It is estimated that collisions with large mammals cost society $6-12 billion annually in the US and $281 million in Canada. This session will begin with a project that is addressing the need for systematic, accurate data collection to improve identification and prioritization of sites for highway mitigation efforts. The presentations that follow will highlight different wildlife detection and warning systems currently deployed in Idaho, Minnesota and Montana.

Session E3: Connected Vehicle Panel Discussion, Casco Bay
Moderator: Marshall Elizer, Gresham, Smith and Partners
Panelists:
• Mike Barnet, Ontario Ministry of Transport, Canada
• Bob Koeberlein, Idaho Transportation Department
• Shelley Row, ITS JPO, USDOT
• Jim Wright, AASHTO

This third and final Connected Vehicle session will be a panel discussion that includes national experts and speakers from the previous two sessions. It will briefly highlight where we have been and then focus on where are we going at both a regional, national and international level. Audience participation is encouraged.
TSAG PUBLIC SAFETY TRACK
This track convenes the four emergency responder groups (ERG) described in the NG9-1-1 What’s Next luncheon session - two concurrently in this slot and an additional two at 3:00 pm. Each group will invite participant discussion of specific findings and recommendations.

Law Enforcement ERG, Bay 1A
Moderator: Sgt. Dan Dytchkowskyj, TSAG, National Sheriffs Association

Speakers:
• Jim Misener, TSAG, ITS America - Safety Forum
• Nancy Pollock, TSAG, Association of Public-Safety Communications Officials (APCO) International

Law enforcement professionals uniquely serve community service functions, and as primary emergency responders. NG9-1-1 enhancements to law enforcement services extend across both functions, from traffic enforcement information, to emergency scene information, to criminal activity information. The group notes the significance of communications via NG9-1-1 systems, such as victim’s voice connection directly to responding officers; or, photographic or video images; or in the case of AVL technologies, communicating location information from remote areas to central dispatch or to field command centers.

Transportation Operations ERG, Bay 1B
Moderator: Ted Delbridge, MD, TSAG, National Association of Emergency Medical Services Physicians

Speakers:
• Dia Gainor, TSAG, National Association of State EMS Officials
• Rick Comerford, TSAG, International Association of Emergency Management (IAEM)
• Jim Goerke, TSAG, National Emergency Number Association (NENA)

Transportation operations professionals are a unique NG9-1-1 ‘partner’. Through traffic surveillance, management and control functions, transportation operators are first consumers of NG9-1-1, receiving data and information relating to minor traffic impediments such as disabled vehicles or roadway debris. Then at the time of a detected major incident, transportation operators become NG9-1-1 ‘partners’ through their function as data ‘providers’ for responders and management of incident scenes. NG9-1-1 systems recognize transportation operators scene management ‘responders’.

TRANSIT TRACK
Session T5: Transit Panel - Where do we go from here?
Bay 6
Moderator: Fred Kitchener, McFarland Management

Panelists:
• Randy Kyrias, Division of Transportation Performance, Idaho Transportation Department
• Yehuda Gross, ITS JPO, USDOT
• Tom Coogan, RouteMatch Software
• David Hunt, Pocatello Regional Transit

Much of the NRITS transit track has presented current achievements of transit technology deployments in rural and small urban environments. This panel discussion will use those successes as a launching pad to focus on “where do we go from here?” The session will include experts from USDOT, States, and transit operators and will be an interactive discussion with the audience to brainstorm ideas of where we need to focus future efforts in this arena.

This concludes the Transit Track for today. It will begin again on Wednesday with the Human Services Transportation Workshop.

2:40 pm
NETWORKING BREAK, Bays 3-5

This break is intended to provide an opportunity for attendees to ask questions of vendors before the Vendor Show closes at 4:00 pm. NOTE: Some individual activities depart as early as 3:00 pm and some meetings sessions continue at 3:00 pm. Please refer to the following pages for more information.

3:00 pm
CONCURRENT SESSIONS/MEETINGS

ITS Rocky Mountain Business Meeting, Kidd Island Bay
The ITS Rocky Mountain Chapter will hold its Annual Business Meeting at this time. An agenda will be made available at the door. This meeting concludes at 4:00 pm.
Agenda

Tuesday, August 30, 2011

3:00 pm
CONCURRENT SESSIONS/MEETINGS continued

Rural SIG Meeting, Casco Bay
The ITS America Rural Special Interest Group (SIG) Meeting will hold a meeting at this time. An agenda is as follows:

1. Introductions and round-table discussion on what is “new and exciting” (All) – 15 min
2. On-going Federal activities related to rural community (Ted Smith, Noblis) – 15 min
3. Report and discussion of Rural ITS Champion award (Steve Albert, Rural SIG Chair) – 10 min
4. Discussion of Lifetime Achievement Award (Steve Albert, Rural SIG Chair) – 10 min
5. Discussion of developing a scanning tour proposal (Ted Smith, Noblis) – 10 min
6. Discussion of future conference themes/focus (Steve Albert, Rural SIG Chair) – 10 min
7. Report and discussion of future conference sites (Steve Albert, Rural SIG Chair) – 10 min
8. Discussion of possible meeting at ITS World Congress in Orlando, FL (Bill Legg, WSDOT) – 10 min

This meeting concludes at 4:30 pm.

TSAG PUBLIC SAFETY TRACK
This track completes the four emergency responder groups (ERG) described in the NG9-1-1 What’s Next luncheon session. Each group will invite participant discussion of specific findings and recommendations. These sessions conclude at 4:30 pm.

Fire & Rescue ERG, Bay 1A
Moderator: Mike Brown, TSAG, International Association of Fire Chiefs (IAFC)

Speakers:
- TJ Nedrow, TSAG, National Volunteer Fire Council (NVFC)
- Skip Yeakel, TSAG, American Trucking Association
- Jim Goerke, TSAG, National Emergency Number Association (NENA)

The Fire & Rescue group discusses the need for timely and actionable information on a broad range of emergency settings. Among these is data on vehicle cargos and hazards, building floor plans and power systems schematics, real time route guidance around congestion, and firefighter locations within the emergency scene. NG9-1-1 systems will enhance Fire & Rescue response and victim rescue, and provide badly needed responder safety tools.

Emergency Medical Services ERG, Bay 1B
Moderator: John Corbin, TSAG, American Association of State Highway and Transportation Officials (AASHTO)

Speakers:
- Tom West, TSAG, University Transportation Centers
- Bill Hinkle, TSAG, National Emergency Management Association (NEMA)

Emergency Medical Services ERG
The EMS group addresses NG9-1-1 functionalities and information priorities that would clearly promote NG9-1-1 support for EMS. Examples include providing real-time, seamless sharing of priority information to ambulance services and other EMS agencies to address key questions such as ‘what’s the situation’; ‘who else is going’; ‘who else can go’; etc. This information is transmitted through a stable platform to emergency departments and trauma centers. Data can be communicated via multiple mediums, including SMS (text), photos, or meaningful and predictive vehicle telematics information to PSAPs and on to field responders.

INDIVIDUAL ACTIVITIES
Note that activity departure times are staggered. If you wish to attend an activity, but did not sign up, please check with the Registration Desk regarding availability.

3:00 - 7:00 pm
Trail of the Coeur d’Alenes Bike Ride
Recognized as the finest “rails-to-trails” projects in the United States, the Trail of the Coeur d’Alenes has 73 miles of newly paved trail, once part of the Union Pacific Railroad. This is an easy bike tour on a paved trail taking you through nature and history. Participants will learn about the Coeur d’Alene Tribe, Jesuit missionaries, fur trappers, mining history, early pioneers and more as the tour passes through forests, marshes and along lakeshore and river. It’s not unusual to see wildlife such as moose, deer, Osprey, waterfowl and songbirds.

A van will pick guests up in front of the Coeur d’Alene Resort. The van will be there by 2:50 pm, and will plan to depart at 3:00 pm. It is approximately 35 minutes from the Coeur d’Alene Resort to the trail head for the bike ride. The Bull Run Trail Head on the Trail of the Coeur d’Alenes will be used. The bike ride will end at the Snake Pit Restaurant where the group will have dinner (paid for by attendees – prices range from $10-$20 per meal). After dinner, it will be another 35 minute drive back to Coeur d’Alene. We plan to have guests arrive back at the Resort around 8:00 pm.
3:00 - 7:00 pm
Fly Fishing Instruction
Have you always wanted to learn how to fly fish, but never have? Here is your opportunity! This activity will offer an intro to fly fishing for beginners.

A van will pick up attendees in front of the Coeur d’Alene Resort at 3:00 pm. Fishing will take place on the Coeur d’Alene River. All equipment and gear will be provided. There will be a box dinner that will be provided by the Resort for you to eat at your convenience while fishing. Instruction and fishing will last until 7:30 pm and you will return back to the resort by 8:00 pm.

3:00 - 9:00 pm
Wallace Silver Mine and Ghost Town Trolley Tour
Step back in time aboard Sierra Silver’s trolley for a truly unique history lesson! Characters from a bygone era will share their stories while you retrace the significant historical events of Wallace, Idaho and the ghost town of Burke. After the ghost town trolley tour, an experienced miner will guide you through the main drift of an actual underground silver mine. Using exhibits and demonstrations of operating mining equipment, you will learn the historical and modern-day techniques used to mine silver, gold, lead, zinc, and copper. The 125-year history of mining in the Coeur d’Alenes has created a unique and colorful mining culture. Your guide will share his personal experiences as a hard-rock miner in the Coeur d’Alene district. The pace of the tour is slow with a walking distance of about 1,000 ft. and 25 concrete steps.

Transportation will be provided from the resort to Wallace (an approximately 50 minute drive). A van will pick guests up in front of the Coeur d’Alene Resort at 3:00 pm. Following the tour, attendees will have the opportunity to eat (at their own expense - entrees are about $10.00 each) at a local eating establishment - the Red Light Garage. Attendees will return to the resort by 8:30 pm.

4:30 - 9:00 pm
Horseback Dinner Ride
Enjoy the cool evening air and tranquil mountain trails for about an hour trail ride as you are treated to panoramic views, watch the wildlife, take in the sunset, and enjoy the fresh mountain air. At a mountain meadow you will meet the chuck wagon with its mouth watering aroma of steaks frying, coffee perking, and warm homemade bread. Dinner also includes baked potatoes, cowboy baked beans, mixed green salad and is completed with dessert cooked in a Dutch oven.

A van will pick guests up in front of the Resort at 4:30 pm. It is approximately a 20 minutes from the Coeur d’Alene Resort to the Rider Ranch for the ride. The van will return guests back to the Coeur d’Alene Resort by 8:30 pm.

5:45 - 8:00 pm
Sunset Kayaking Trip
Enjoy the soft light and peaceful quiet on Lake Coeur d’Alene. Paddle along shores of pine-scented air, watch herons wade and Osprey soar. Share a toast along the way to the beauty of this corner of America while enjoying the amazing summer sunset. Sunset Kayaking sets the tone for a romantic evening and enjoying the amazing summer sunset over Lake Coeur d’Alene. A guide will pick guests up in the main lobby of the Resort at 5:45 pm. All equipment is provided for this activity as well as champagne and sparkling cider. Participants will return to the Resort by 8:15 pm.
Wednesday, August 31, 2011

7:00 am
REGISTRATION, Conference Center Lobby
Attendees should pickup their registration packets (if they have not already done so) prior to attending breakfast.

7:30 am
BREAKFAST, Bay 2
A full breakfast buffet will be served each day.

8:30 am
CONCURRENT SESSIONS/WORKSHOPS/MEETINGS

Session F1: Communication Innovations in Crash Response and Winter Maintenance, Kidd Island Bay
Moderator: Ian Turnbull, California Department of Transportation
Peter Davies, Castle Rock Consultants
CARS-Mayday: Improving Crash Response Times in Rural Areas
Melinda Tracey, IBI Group
Winter Road Condition Mobile Data Collection System
Jennene Ring and Debbi Achord, Washington State Department of Transportation
WSDOT, North Central Region Smart Snowplow Project

Challenging environments often lead to innovations. This session will include information on CARS-Mayday and how it is being utilized in the Idaho State Police Communications Center as well as innovations in smart adaptive antennas. The session will conclude with a discussion by Washington State Department of Transportation on their snow and ice fighting activities and how they have utilized technology to address many of their challenges.

Session F2: Innovative Solutions - How Research is Changing the Transportation Paradigm, Casco Bay
Moderator: Leah Kelsey, Six Mile Engineers
Mandar Khanal, Boise State University
Defining and Quantifying Rural Congestion
Michael Kyte, University of Idaho
Using Visualization Tool to Learn About Traffic Signal Timing
Scott Brusaw, Solar Roadways Incorporated
Solar Roadways

This session will provide an interesting snapshot of innovations across the transportation field. What do they have in common? They started out as ideas - research projects or prototypes - and have grown into deployment. Learn how a visualization tool has changed how students are taught about traffic control systems; what impact freight has on rural traffic congestions; and how the roadway can be used to generate power!

Traffic Incident Management Basics for Rural ITS Professionals Workshop, Bay 1B

Instructors:
• David Plazak, TRB/Strategic Highway Research Program 2
• Ralph Hessian, Strategic Highway Research Program 2

Traffic incidents are one of the main causes of non-recurring traffic congestion on the nations’ highways; incidents are of particular importance in creating unreliable and unsafe conditions on rural highways. This half-day (four hour long) workshop will provide rural ITS professionals with the basic concepts of traffic incident management (TIM) so that they can assist in improving incident management in their states and localities. Effective TIM is a “team sport”.

The half-day workshop, based materials developed for SHRP 2 Reliability project L12, will focus on:

• Notification, communications, and response by various disciplines
• Arrival of responders and safe and effective setup at the incident scene
• Command responsibilities at the incident site and unified command
• Traffic management at incident locations
• Safe and quick clearance of incidents

After completing the workshop, participants will -

• Have a better understanding of the roles of various disciplines involved in traffic incident management, including law enforcement, fire, emergency medical services, transportation, towing and recovery, and communications and dispatch.
• Understand the impacts of traffic incidents on travel reliability and safety.
• Have a clear understanding of the benefits of effective traffic incident management.
• Understand the National Uniform Goal (NUG) for traffic incident management.
• Understand common incident response and incident management terminology.
• Have a good working knowledge of traffic incident management concepts such as setting up at incident scenes, incident command, traffic management at incidents, and safe/quick clearance.

SAFETY TRACK
TSAG All Member Business Meeting, Bay 1A
This meeting begins at 9:00 am and is open to all attendees.

TRANSIT TRACK
Human Services Transportation Workshop, Bay 6

Welcome and Workshop Overview
• Alan Eirls, Director, Citylink Transit
• TBA, USDOT
• Aletha Goodine, FTA, USDOT

Yehuda Gross and Doug Birnie, USDOT, Washington, DC
USDOT Update: United We Ride (UWR) and Mobility Services for All Americans (MSAA) Initiatives

Doug Jamison, Central Florida Regional Transportation Authority, Orlando, Florida
Orlando, FL TMCC Phased Implementation – building up ITS capabilities one step at a time

This workshop, hosted by the United States Department of Transportation (USDOT) ITS Joint Program Office, invites all conference participants who are interested in coordinating community transportation utilizing ITS. The workshop aims to promote knowledge and information sharing on innovative community transportation practices and the usage of ITS technologies in advancing service coordination. Workshop speakers include representatives from selected Travel Management Coordination Center (TMCC) demonstration sites sponsored by the USDOT Mobility Services for All Americans (MSAA) and United We Ride (UWR) initiatives. These demonstration sites successfully deployed various ITS applications to improve the quality of public transportation in their respective communities through service coordination and technology integration. Adjourns at 4:00 pm.

10:00 am
BREAK, Bay 2

10:15 am
CONCURRENT SESSIONS/WORKSHOPS/MEETINGS

Session G1: ITS Financing - Innovative Approaches to Revenue Generation, Kidd Island Bay
Moderator: Acey Roberts, Mississippi Department of Transportation
Jorgen Pedersen, Telvent
Dispelling the Myths of Self-Funding Systems
Dean Deeter, Athey Creek Consultants
Cost/Benefit ITS Tool – Results of Testing to Date
Matt Hamill, Global 5 Communications
Revenue Generation through 511 for Rural States
Mike Haas, Haas Systems
The Economics of Free Traveler Information: Understanding the Value of What DOT’s Have to Sell, and Who is Buying

Many State DOTs face the challenge that there are more requests for ITS projects than funding. This session will highlight two tools that are available to help. One provides a cost/benefit tool for rural ITS deployments and the other is an example of revenue generation through 511. The session will conclude with a roundtable discussion on how some states are approaching project funding in these challenging economic times making this a must-attend session!

Session G2: Research and Solutions from the Next Generation, Casco Bay
Moderator: Ted Smith, Noblis
Edward Offei, Student, University of Wyoming
ITS for Reducing Truck Overturn Crashes Due to High Winds at Bordeaux, Wyoming
Justin Effinger, Student, University of Wisconsin-Milwaukee
Use of Bluetooth Technology in Traffic Data Collection and Management in a Rural Setting: Case Studies in Portage & Tomah
Ismail Zohdy, Student, Virginia Tech
A Proposed Driver Assistance System in Adverse Weather Conditions

This session will feature the winners of the NRITS Student Paper competition and will cover three topics: (1) utilizing ITS to reduce truck overturn crashes due to high wind; (2) using Bluetooth technology in traffic data collection and management in a rural setting; and (3) driver assistant systems for use in adverse weather conditions.
**Wednesday, August 31, 2011**

10:15 am  
**CONCURRENT SESSIONS/WORKSHOPS/MEETINGS continued**

Traffic Incident Management Basics for Rural ITS Professionals Workshop, Bay 1B  
This workshop continues (adjourns at 12:00 pm)

**SAFETY TRACK**  
**TSAG All Member Business Meeting, Bay 1A**  
This meeting continues (adjourns at 2:00 pm)

**TRANSIT TRACK**  
**Human Services Transportation Workshop, Bay 6**  
This meeting continues (adjourns at 4:00 pm)

Jerome Phillips, Camden County Workforce Investment Board, Camden County NJ  
Camden County, NJ TMCC Model Deployment - A community-wide endeavor to bring ITS to the faith-based operations

Nancy Snow, Transit Authority of River City, Louisville, Kentucky  
Louisville, Kentucky TMCC Phased Implementation - Finding the right ITS investment priorities that make sense to the community

12:00 pm  
**Lunch, Bay 2**

12:30 pm  
**Ice Cream Social, Outside Pool Deck**  
Thanks for coming to the Conference!

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  
**CONCURRENT MEETINGS/WORKSHOPS**

**SAFETY TRACK**  
**TSAG All Member Business Meeting, Bay 1A**  
This meeting continues (adjourns at 2:00 pm)

**TRANSIT TRACK**  
**Human Services Transportation Workshop, Bay 6**  
This meeting continues (adjourns at 4:00 pm)

*Show-N-Tell: ITS Technologies for Community Transportation*  
• Various Vendors

Yehuda Gross, USDOT, Washington, DC  
*Applying Connected Vehicle Concept for Community Transportation*

Aletha Goodine, USDOT, Washington, DC  
*Closing Remarks*

12:45 pm  
**NRITS GOLF TOURNAMENT**, Sponsored by RouteMatch Software  
**Note:** The Tournament kicks off at 1:30 pm, but the course would like players to arrive at 12:45 pm.**

This will be a 4 person best ball golf scramble on one of the most beautiful courses in the US. The 200 acre course is a Par 71 and is contoured so you are not able to see other golfers while still getting lake views from all 18 holes. The famous ‘Floating Green’ is 15,000 square feet and is an average of 147 yards based on standard men’s tee (changes every day with distance controlled by computer). Transportation is provided from the resort to the golf course in two custom designed, hand crafted, Honduran Mahogany Water Taxis.