



ITS PULSE

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Special Vendor
Edition

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Find us on the Web:

itsa.org
and
itsheartland.org

President's Message

By Tom Dancey, ITS Heartland President, 2007-08



Dancey

Welcome to the ninth annual ITS Heartland Meeting and Technology Showcase! On behalf of our fine city, we welcome you and hope you enjoy your time in Springfield and the surrounding Ozarks region. Thank you for your support in attending the annual meeting. Your ITS Heartland Board of Directors has been hard at work over the past year to plan for your arrival. It is our hope that you take full advantage of the knowledge-building and networking opportunities this event offers.

Thank you to the many individuals and organizations that make the meeting possible. I look forward to learning from the dynamic group of presenters who share their knowledge and experiences through the technical sessions, tour, and workshop; and from the wide range of technology partners who demonstrate the latest in available tools to equip our regional transportation and information providers. Perhaps most of all, I look forward to the camaraderie that makes these meetings so memorable.

It is with much appreciation that we acknowledge this year's sponsors for their generous financial support. A big thank you to the following organizations: Delcan, Brown Traffic Products, GDI Communications, HNTB Corporation, Iteris, Ledstar, URS Corporation,

American Signal Company, BWR, Jacobs Engineering Group, SRF Consulting Group, Short Elliot Hendrickson, and 3rd Dimension. For hosting the meeting's opening night icebreaker at the ballpark, thank you to the local Springfield area consultants and contractors including Olsson Associates, CJW Transportation Consultants, Ewing Signal Construction, HDR, Anderson Engineering, ESC Consulting Engineers, Harrington & Cortelyou, Hartman & Company, Palmerton & Parrish, and Scott Consulting Engineers.

We strive each year to put our vendors on center stage. I encourage each attendee to spend quality time in the exhibit hall visiting with the many technology providers that have their quality products and services on display. This special edition of the ITS Pulse presents a glimpse of what they have to offer.

As my term as ITS Heartland President comes to an end, I look back on the past year with sincere gratitude to the extraordinary group of people with whom I've had the pleasure to serve. Thank you to every one of the board members who have given so much of their time, talents, and energy to sustain and advance our chapter. Thank you to the membership for allowing me the opportunity to serve our great organization. It has truly been a privilege and a pleasure.

Iteris

Iteris continues to be an avid supporter of ITS Heartland and is proud to be a Gold sponsor at this year's Annual Meeting in Springfield. In 2007, Iteris added a familiar face to its Lincoln office as Steve Garbe joined us as a Senior ITS Project Manager.



Iteris offers a full-range of ITS services including planning, design, deployment, integration, testing, acceptance, operations, and maintenance. We apply advanced engineering, best industry practices, experience, and imagination to create superior Intelligent Transportation Systems.

Iteris currently serves the Heartland Region from offices in Lincoln, Nebraska; Kansas City, Kansas and Missouri; and Minneapolis, Minnesota. We wish to thank our existing clients for the opportunity to work on your projects this past year and are excited about future opportunities with both existing and new clients throughout the Heartland Region.

The following is a brief summary of several Iteris projects in the Heartland Region:

I-35W Design Build Project – Iteris is providing all ITS design and ITS construction support services for the St. Anthony Falls (I-35W) Design-Build project for the Minnesota Department of Transportation.



NDOR District Operations Center (DOC) System Manager – Iteris is serving as System Manager for ATMS software implementation in Omaha with responsibility for final functional requirements, procurement support, and oversight of software customization, installation, testing, and acceptance.



Kansas City Scout Operations Support

Contract– Iteris is leading the TMC Operator Training task and supporting development of updated Incident Management procedures.

Wichita TMC Design – Iteris is leading the system engineering task including development of the Systems Engineering Management Plan, Concept of Operations, Functional Requirements, and ITS Architecture Conformance Statement.

IaDOT On-Call ITS Services

– Iteris is providing on-call ITS services including development of statewide CCTV camera procurement specification, design of CCTV locations statewide, and Special Event Management Planning for various venues statewide.



Lincoln Harris Overpass

– Iteris is designing sensor systems to detect weather and pavement conditions on the Harris Overpass (O Street), a primary east/west arterial in Lincoln, NE that will be linked to DMS to provide travelers with real-time information on road conditions.



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Welcome...
ITS Heartland
2008 Annual Meeting
April 7-9, 2008
Springfield

ITS Pulse Contributors

Thank you to everyone who supplied articles and photos for this edition.

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Atlantic Scientific

The past 10 years have seen a remarkable increase in the presence of electronic equipment installed on the side of the highway. These sites offer many challenges which are impacted by numerous misunderstandings about lightning and surge protection. Often there is a lack of diligence in the design of the protection system and myths that there is nothing you can do about lightning related damage. Understanding that most damage is caused by indirect lightning activity will make one realize that 99 percent can be prevented.



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Surge Protection for Professionals



Atlantic Scientific is an industry leader with more than 28 years of experience and over

2,500 surge protection devices. We offer many free technical seminars to users, consultants, and integrators showing how installations in Florida, a world lightning capital with over 5,000 towers, can survive frequent lightning hits.

Advance Warning System for Low Water Crossing

Stanislaus County, California -- September 2007 brought the installation of another HSE Advance Warning System for roadway flooding and traffic safety.



This latest installation activates six flashing beacon sites and lowers barrier gates across three rural roads crossed by Orestimba Creek in the San Joaquin Valley of Central California.

In November 2005, a vehicle was swept away and a life was lost. The system is entirely solar powered and utilizes wireless communications for automatic or manual activation and status reporting.

The system activated for seven days during a major weather event in January 2008, activating flashing beacons, lowering barrier arms, and notifying County personnel via text and e-mail messages. The system is monitored and controlled by DEC Data Systems' DataWise software.

Contact Information:



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BOOTH #3*

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**AdaptiveTraffic Signal
Systems**

Professional Engineering Corporation

“A robot at every signalized intersection” is the mission of Professional Engineering Corporation. PE Corp has developed and deployed a robotics-based adaptive traffic signal control system. The system (InSync) uses principles of robotics and artificial intelligence to collect data, communicate, and optimize traffic signals in an arterial network.

Unlike other adaptive traffic signal systems, InSync does not have plan transitions and cycle lengths and hence, there is no undue wait on side streets. It is also extremely easy to deploy and configure. Time for configuring a typical arterial is about one week, versus 6-8 months by other systems. InSync is learning traffic patterns continually (Expert System) and hence there is virtually no need for system maintenance.

InSync is a fully integrated vehicle detection and

traffic-flow optimization system. There is no need to deploy other vehicle detection devices or advanced detectors. InSync is also the only operational adaptive system in the Midwest region. The system is compatible with all types of cabinets and controllers (Type 170, 2070, and NEMA) regardless of the controller firmware.

***For more information,
please visit our booth at
ITS Heartland.***

Quixote Transportation Technologies, Inc.

Quixote Transportation Technologies, Inc., offers Highway Advisory Radio Systems

Highway Advisory Radio (HAR) from Quixote Transportation Technologies, Inc., is a system that utilizes AM or FM radio frequencies to broadcast messages to motorists. Smart highway management means getting the message to drivers before they encounter delays and add to traffic problems. Since AM radio is a standard feature in every vehicle, using HAR is the only reliable way to get the message out to everyone.



With HAR you can notify motorists of traffic conditions, local points of interest, or emergency and evacuation information, creating a safer, smoother commute and more informed motorists. HAR can also assist in managing traffic during long-term construction projects, keep traffic flowing near public arenas, during special events, or it can simply be used for frequently congested traffic areas.



HNTB

"Quality is never an accident; it is always the result of high standards, sincere effort, intelligent direction and the wise choice from many alternatives."

For over 90 years, HNTB has provided creative transportation solutions to clients throughout the nation. Since the 1960's, HNTB has been at the forefront of ITS and traffic management planning, design and innovation. Through the development of cutting-edge technology, HNTB delivers appropriate solutions that meet client goals and set a solid foundation for future ITS growth.

Once again, we find ourselves at the forefront of cutting-edge technology and innovation through our involvement in the Vehicle Infrastructure Integration (VII) initiative. HNTB is already

expanding its pedigree in VII planning and design activities with such projects as:

- Michigan DOT VII Proof of Concept Test Bed (I-696/M-5)
- Michigan DOT VII Test Bed (I-96)
- Michigan DOT Statewide VII Support
- Michigan DOT Statewide ITS Program Manager
- Michigan DOT VII Model Deployment
- Florida DOT VII Support

Harnessing the power of technology for surface transportation is an HNTB specialty. As a leader in the planning and design of our nation's bridges, highways and toll roads, HNTB is adept at integrating technologies that equip surface

HNTB

transportation facilities to function at peak efficiency. HNTB's early adoption and long-term commitment to the many facets of ITS technology have positioned the firm as the ITS advisor of choice to numerous state departments of transportation, municipalities and toll agencies.

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GDI Communications

GDI Communications introduces its Fiber Optic Digital Modem series. The FDM Series Fiber Optic Digital Modem is an upgrade of GDI's FLD2 modem, adding a fiber hub that can handle a range of topologies including point to point, single ring, daisy chain, and self-healing dual counter rotating rings.

The FDM is the next generation of fiber optic modem, utilizing a Replaceable Operating System (ROS). As ITS requirements change, or new features become available, a new ROS Memory System can be created, offering a migration path to a system upgrade.

Each modem has an Intuitive Ring Status Display that graphically mimics the switching status of the modem, providing instant recognition of the switching state of the modem and ring system.

The FDM can operate over multimode or singlemode fibers. It is immune to optical overloads and therefore does not require the insertion of optical attenuators. The FDM2's ergonomic design has

no internal adjustments – and all connections, adjustable options and labeling are on the recessed front and rear panels, making these units user friendly and stackable.

In addition to the standalone product, plug-in versions for the 2070 and 170 controllers are available. Using a GDI Communications 10 or 16 position 19" rack assembly, the FDM170 modem can be utilized at a TMC or communications hub site as a Master.

The FDM2 series offers internal options that include a 2 or 4 wire FSK modem or a Spread Spectrum Radio allowing a seamless transition between legacy and emerging technologies.

The FDM-FiberHub is part of the Fiber Digital Modem series and provides active bi-directional, optical star communications to three optical ports. The FDM-FiberHubs can be ganged together either optically or electrically to provide further expansion.



Two Auxiliary Data Ports are provided with full handshaking and Anti-Streaming capabilities.

For more information, visit our web site, www.sgdi.com, or e-mail, traffic@sgdi.net.

Thank you to our Vendors for Your Support

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A-T Communications

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The Hoosier Company, Inc.

Traffic Control Corporation

TransCore

Wavetronix LLC

Brown Traffic Products, Inc.



MERGING INNOVATION, TECHNOLOGY & SERVICE

Brown Traffic Products, Inc. is pleased to be a vendor and sponsor at this year's ITS Heartland event.

Brown Traffic Products has been an industry leader since 1969. Our many years of success with "Merging Innovation, Technology and Service" is a direct result of having professional and experienced staff, as well as industry leading vendor partners. A few of our newest vendor partners include:

Daktronics, Inc. – Daktronics, Inc., is recognized worldwide as a leading designer and manufacturer of Variable Message Sign (VMS) trailers for the traffic industry, using light emitting diode (LED) technology. Stop by the Daktronics booth (booth #23) for more information.

Lumecon – Lumecon is a National Distributor for Relume Technologies, providing LED solutions for the municipal market. Their patented "Silver Circuitry" technology revolutionizes the LED Lighting Industry. Stop by the Brown Traffic booth (booth #16) to see a demo, and get information on how you can participate in the risk-free, 120-day test and evaluation offer.

Intelight – The Intelight Electronic Steerable Beam (ESB) Traffic Signal Heads meets or exceeds traditional traffic signal specifications. The

Intelight ESB signal saves hours of staff time and dramatically reduces exposure to traffic dangers. Stop by the Brown Traffic booth (booth #16) to see a demo.

For more information on any of our products or services, please visit our web site at www.browntraffic.com.

Thank you to our Baseball "Diamond" Sponsors

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CJW Transportation Consultants

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