



ITS PULSE

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Special Vendor
Edition

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Telvent Farradyne Inc.

Welcome to Omaha!

We hope you enjoy your visit and the ITS Heartland Annual Meeting. While here, you will have an opportunity to tour one of the newest transportation operations centers in the country, the Nebraska Department of Roads (NDOR) District Operations Center. This co-located facility with the Nebraska State Patrol will provide operations on a 24/7 basis throughout the state through cooperation between NDOR and NSP. Telvent Farradyne, along with prime consultant HWS, and partner Parsons Brinckerhoff, recently completed the design of the interior of this great facility including the operations theater, equipment room, and video throughout the building. We hope you enjoy your tour!

Telvent Farradyne Inc. crafts technical solutions to solve society's safety, security and mobility problems. We offer a powerful array of services and software products, extending from conceptual planning and consulting to design, system development and integration, and system operations and maintenance. We provide system solutions for electronic toll and pricing, freeway management, parking management, traffic enforcement, traffic signal, transit fare payment, traveler information, and



SCADA tunnel control system applications.

Our approach to projects is based on sound systems engineering methodology and application of quality principles based on our ISO 9001 compliant procedures. Our expertise has been built over almost 25-years as a US industry leader.

Telvent Farradyne cordially invites you to our hospitality suite in Room 121/122 on Tuesday night starting at 7 p.m. Please visit us in Booth 7.

All of our work is guided by our six core values:

- We strive for excellence.
- We always act ethically.
- We work for and in the best interests of our customers.
- We produce and provide the best systems, products and services for our customers.
- We embrace technology and create innovative solutions.
- We create an environment where the best people want to be.

Find us on the Web www.itsa.org and www.itsheartland.org

Skyline Arterial Dynamic Message Signs

Skyline Products™, a leading developer, manufacturer and provider of ITS-Grade® dynamic message sign (DMS) solutions for the transportation industry, has seen stronger interest in its Small Lift-face Variable Message Signs designed for arterial applications.

These high-quality DMS-with advanced features such as long-life, maintenance-free filters, True Message Display Verification,



sophisticated diagnostics to report component-level operations, and easy-to-control software-will meet stringent performance requirements even in harsh climates.

Skyline Products' arterial dynamic message signs are ideal for up-to-the-minute travel times, accident alerts, weather conditions, AMBER Alerts, detour instructions, construction updates, etc.

HNTB's Experience and Expertise Grows in the ITS Heartland Region



HNTB is excited to announce key additions to its team of ITS professionals nationally and in the ITS Heartland region. Jim Barbaresso is joining HNTB to lead our ITS practice nationwide. Jim provides HNTB national leadership in ITS with extensive experience in the ITS Heartland region. Jason JonMichael has recently relocated to HNTB's Kansas City office. Jason's expertise in systems engineering, communication network design, systems integration and VII will enhance the services HNTB can provide to our clients in the ITS Heartland Region.

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 transportation facilities to function

at peak efficiency. Early adoption and a long-term commitment to the many facets of ITS technology have positioned HNTB as the ITS advisor of choice to numerous state departments of transportation, municipalities and toll agencies.

As states and metropolitan areas move to wider deployment of ITS, agencies face a number of challenges:

- Privatization/Funding Opportunities
- Maximizing investments
- Ensuring interoperability of systems
- Increasing the efficiency of legacy systems
- Coordinating participation and input from stakeholders
- Maintaining a rapidly increasing number of ITS assets

• Technology changes/upgrades
As a pioneer in the planning, design and deployment of ITS since the 1960s, HNTB is committed to partnering with our clients from project inception through completion. We work to identify system requirements, match requirements with available technologies, test them in real-world situations, and develop comprehensive plans for operating, staffing and maintaining the system.

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See you there...
**ITS Heartland
2007 Annual Meeting
April 10-11, 2007
Omaha, Nebraska**

ITS Pulse Contributors

Thank you to the vendors and sponsors who supplied articles and photos for this edition.

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FDS Introduces a New Generation of LED Dynamic Signs

FDS is sending a clear message to motorists with the introduction of a new and revolutionary DMS technology. Drawing from over 20 years of experience in the manufacture of Dynamic Message Signs (DMS), FDS has listened to its clients and is providing them and the industry with an innovative, ground-breaking new DMS concept. FDS engineers have applied the most current available technology to improve the legibility of our signs while reducing maintenance and life cycle costs by 30%, compared to conventional LED DMS. FDS engineers have found a very efficient

alternative to the aging Walk-In housing design. Our new design replaces traditional ducted ventilation systems with a lighter, more economical, and simpler design. FDS' innovative Canopy Door concept offers a much friendlier working environment for maintenance and operations personnel compared to the oppressive Walk-In design.

FDS' Canopy Door design provides a DMS which is lighter in weight than conventional Walk-Ins with the additional benefit of being less costly. FDS offers a full range of



Fiberoptic or LED DMS, as well as providing maintenance services during the installation, testing and operation phases.

FDS will be present and available at 2007 ITS Heartland to demonstrate our new products. Please visit our exhibit and sign-up for our hands-on demonstration outside the exhibition center. It is a chance for you to see and examine this new DMS design.

Daktronics

With advancing LED technology, the capabilities of Daktronics variable message signs also increase. This allows VMS products to convey messages to motorists faster and clearer than ever before. Daktronics offers new higher resolution light emitting diode (LED) signs that include more pixels in the same display surface area. Since graphics are easier to read than text, the Daktronics high resolution VMS allows greater detail to produce very clear symbols. Along with high-resolution, the full-color technology helps reduce the time required for a motorist to recognize and understand a message. Daktronics full-color high-resolution VMS products are the best way to communicate with motorists.



P.I.C.S., Inc. (Portable Intelligence Collection Systems)

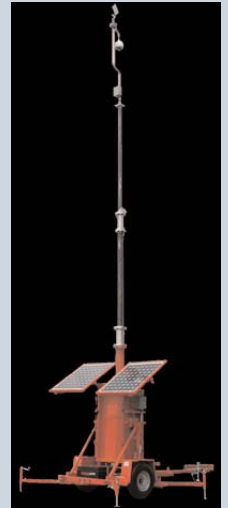
Completely mobile, scalable and wireless information and video surveillance platforms, which are totally customizable to suit the needs of hundreds of individual applications including intelligent traffic systems. With P.I.C.S. portable units, authorized personnel can see, control and record vital information from any wireless, broadband Internet connection.

P.I.C.S. units are "when and where you need them" information delivery systems that are virtually vandal proof, weather proof - easy to operate, require low maintenance and are cost

effective.

These self contained, high-resolution surveillance systems use high-speed, wireless broadband radios to transmit information providing rapid response to critical situations; maximizing manpower and increasing return on investment.

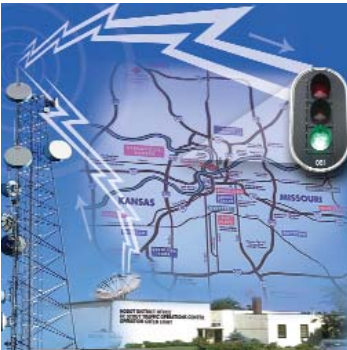
For more information go to www.p-ics.com or call (800) 398-9087.



P.I.C.S.

Portable • Intelligence • Collection • Systems

Olsson Associates



Since 1956, Olsson Associates (Olsson) has been providing our clients with complete and comprehensive design and consulting engineering services. Olsson offers consulting engineering services in the fields of civil, municipal, structural, water resources, environmental sciences, mechanical/electrical, transportation and traffic, land development, automation and technology, and power electrical engineering, as well as ITS services.

Using a client-focused systems engineering process, Olsson Associates offers complete planning, design, and implementation services for ITS projects.

Our staff combines expertise in planning and design with electrical, technology, and computer systems engineers, traffic engineers, stakeholder outreach experts, and talented technical support staff to execute ITS projects from conception through on-going operations.

Some recent projects have included:

- Bus Rapid Transit (BRT) Communication and Priority System Design – Kansas City Area Transportation Authority (KCATA)
- Advanced Traffic Management System (ATMS) and Traffic Operations Center (TOC) Design – Olathe, Kansas
- Central Business District (CBD) Signal System – Kansas City, Missouri
- System Inventory, ITS Project Architecture, and design of system

devices – Joplin, Missouri/ MoDOT District 7

- Design of Communication, Cameras, DMS Boards, and System Detection – Springfield, Missouri/ MoDOT District 8
- Wireless Communication Design for Operation Green Light (OGL) – KC Metro Area
- Nebraska Department of Roads (NDOR) Traffic Monitoring Cameras, Phase 1

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www.OzarksTraffic.info

Iteris, Inc.

Iteris, Inc. is pleased to be a Platinum sponsor of the ITS Heartland 2007 Annual Meeting in Omaha. Iteris specializes in intelligent transportation systems (ITS). Our staff combines the expertise of traffic engineers, systems engineers, transportation planners along with other highly-specialized technical staff to offer our clients innovative solutions to today's most critical transportation problems.

Please join us Tuesday evening in Suite 127/128 for food, beverages, and conversation.

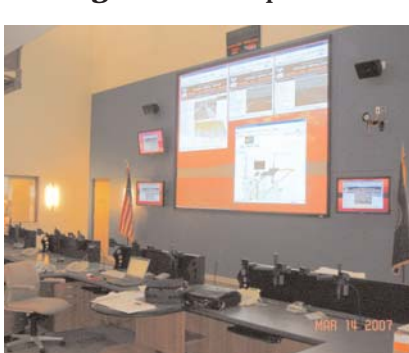
We apply advanced engineering, best industry practices, experience and imagination to create superior Intelligent Transportation Systems. Our staff design and build open solutions that solve problems today,

allow future growth and flexibility, extend the life of legacy systems and provide solutions for system integration. Iteris is a leader in the development of state-of-the-practice traveler information systems. We are also involved in new initiatives for Vehicle-Infrastructure Integration (VII) and Integrated Corridor Management (ICM), where our creativity and technical expertise are helping to frame the future of transportation.

Iteris currently serves the Heartland Region from offices in Lincoln, Nebraska; Minneapolis; Denver; and Detroit. A Kansas City office is planned for later this year. We would like to thank our existing clients for the opportunity to work on your projects this past year. We are very excited about future opportunities with both existing and new clients in the Heartland Region.

A brief summary of projects in the Heartland Region:

NDOR District Operations Center (DOC) System Manager



Iteris is part of the System Management team for the implementation of ATMS software for District 2 in Omaha. Iteris is responsible for development of final functional requirements and software selection criteria, procurement support, approval of testing and acceptance plans, and oversight of software customization, installation, testing, and acceptance.

NDOR I-80 Automated Work Zone Deployment - Iteris is the prime contractor for the design, deployment,

and maintenance of an automated work zone traffic management system along the I-80 corridor in Lincoln. The system, which includes roadway sensors and wireless communications, can provide real-time traveler information to portable DMSs.

IaDOT On-Call ITS Services - Iteris is providing on-call ITS services to the IaDOT including a broad range of ITS planning, design, deployment, integration, and research tasks. Current project assignments have included a non-intrusive sensor evaluation, preparation of an integration plan for City of Des Moines and IaDOT CCTV cameras and development of statewide CCTV camera procurement specifications.



Topeka, KS Regional ITS

Architecture - Iteris is developing the Regional ITS Architecture for the Topeka-Shawnee County, KS area. This project includes significant coordination with area stakeholders

including FHWA, KDOT, and emergency service providers. A region-wide ITS Communications Master Plan is being developed as part of this project to facilitate continued ITS deployment in the Topeka-Shawnee County region.

Hamilton Boulevard (Sioux City, IA)

Communications Design - Iteris assisted with design of a fiber optic communications system for the Hamilton Boulevard corridor in Sioux City, IA. Iteris is also responsible for evaluation of traffic management and communications technologies, development of a project-level ITS architecture, design of a wireless communications link to the temporary TMC location, and preparation of a communications master plan for Sioux City.

MoDOT Springfield-Branson Communications

Design - Iteris is a subconsultant on the design and development of a regional ATMS in Missouri DOT's District 8. Iteris is responsible for the design of a two-way communications link between the Springfield TMC and Branson TRIP. Iteris also will be assisting with a wireless communications design for up to 400 traffic signals throughout the district.

For more information on Iteris, please contact Mike Malone at msm3@iteris.com or (402) 476-5101, or visit our web site at www.iteris.com.

VANUS, Inc.

VANUS, Inc. specializes in everything ITS from planning and design through procurement and integration. We know Dynamic Message Signs (DMSs), Closed Circuit Television (CCTV) Cameras, detection devices, fiber optic cable, and wireless communications and how to bring them all together in a functional and reliable network. In the Heartland, we are performing on or have successfully completed the following projects:



- **KC Scout I-29/I-35/I-435 Freeway Management System Expansion** - Providing design for ITS field devices and communications along Interstates 29, 35, and 435 north of the Missouri River.
- **MoDOT Statewide Communications Plan** -Developing a wireless design to enhance the MoDOT's communications with its 10 districts.
- **Kansas City, Missouri ATMS Design** - Prepared the plans and specifications for a fiber optic cable network to interconnect 105 intersections in downtown Kansas City plus plans for the control room, specifications for system software and 2070 controller hardware and software.
- **City of Lenexa, Kansas Traffic Signal Communications System Expansion and CCTV Camera Design** - Conducted an inventory of the existing Lenexa fiber optic network, including fiber termination locations, actual fiber strands in use by various stakeholders and data losses on fiber strands. Developed a communications master plan and designed a fiber optic network expansion connecting all traffic signals and three city facilities along the expansion corridor.
- **City of Overland Park, Kansas Communications Master Plan** - Developed a Master Plan to update the existing closed-loop signal system. The communications medium transitioned from a coaxial network leased from the cable television company to a user-owned fiber optic network with video and DMSs.
- **Olathe, Kansas ATMS Master Plan/Design** - Developed a Master Plan and communications plans for this 80-intersection ATMS. The system uses IP over Ethernet communications with field hardened switches and routers.

VANUS - 5401 W. 58th Terrace - Suite 110 - Mission, Kansas 66205 - 913-262-3600

Ruggedized Communications for ITS Applications

A key requirement for many ITS applications is a high-reliability, high-availability, real-time communications backbone infrastructure that is capable of operating in "harsh" environments (anything outside a typical "office" environment). In addition, standards based Ethernet networking technologies are required to ensure seamless interoperability between devices and to reduce overall systems costs.

RuggedCom is the leading developer and supplier of field hardened networking and communications devices designed for ITS applications. RuggedCom's full range of product offerings include: field hardened Ethernet switches that includes modular configurations, Gigabit options, and long haul fiber support; routers with integrated router/firewall/VPN capabilities; serial device servers with integrated Ethernet switch for connection of legacy serial devices to an Ethernet network; and media converters to enable communications over a common medium.

Some new product recently announced introduced by RuggedCom that can provide tremendous value for various ITS applications include: the RuggedWireless™ family of field-hardened LAN based wireless networking products that can be used to reduce installation and cabling costs; and the RuggedVDSL™ family of field hardened VDSL Ethernet Switches that provides Ethernet networking over existing telephone grade cable up to 4km in length.

All RuggedCom products provide a level of ruggedness and reliability that exceeds ITS industry standards such as NEMA TS-2. The reliability of RuggedCom product is one of the highest in the industry and greatly exceeds those of commercial grade devices.

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Woodbridge, ON L4L 7Z4

Dave McGee, Midwest Regional Sales Manager
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Econolite Introduces Autoscope Terra, A New Generation of Video Detection Solutions

Econolite and partner Image Sensing Systems, Inc. are pleased to introduce Autoscope® Terra(TM), a new generation of advanced and easy-to-use Autoscope video detection solutions. A myriad of significant technology advances make this one of the most sophisticated traffic video detection products in the world. Collectively, these innovations are being marketed as Terra Technology.

Autoscope Terra simplifies installation, setup, monitoring and operation, while at the same time boosting processing power for transportation solutions. All of this is made possible by leveraging the Autoscope's proven detection algorithms with a leading edge dual-core DSP and logic processor. Each Autoscope Terra system includes Ethernet connectivity, streaming MPEG-4 video, a web-based software interface and a host of other valuable features.

The Autoscope family of products empowers transportation



professionals to reduce congestion, improve traffic flow, and promote safety for intersections, highways, bridges and tunnels worldwide. As a result, travel delays are reduced, delivery time of goods to market is shortened, and air quality is improved.

In business since 1933, Econolite is a leading transportation solution provider and manufacturer of advanced traffic management products and systems, including advanced traffic controllers (NEMA and ATC/2070), Aries®, icons®, and PYRAMIDS(TM) - traffic management systems, Autoscope® video vehicle detection systems, arterial system masters, vehicle and pedestrian signals, traffic control cabinets, Data Collection and Management Services (DCMS), and a full line of transportation maintenance services.

Black & Veatch



Black & Veatch continues to provide comprehensive ITS design services throughout the Heartland region. These services include: element locations, telecommunication design, addressing roadway concerns, layout and sizing of power cables, structural sign and pole support design including foundations, project specifications, opinion of probable cost, and construction assistance.

Black & Veatch was the lead designer of the original 75 miles of the Kansas City Scout project, and provides on-going support to the Missouri

Department of Transportation with the Scout system. Black & Veatch is currently designing a 17 mile extension along the Interstate 435 corridor.

Black & Veatch also provided ITS design services for 12 miles of ITS elements on Interstate Route 40 in the St. Louis area.

Black & Veatch is pleased to sponsor the eighth annual ITS Heartland Conference and support its members within the Heartland region.

Delcan Corp.

Past President McGee once stated, "It is the sum of the parts that makes ITS Heartland a force in the deployment of ITS systems." For 10 years, Delcan has been honored to be part of the Heartland's ITS projects and we have relished in the opportunity to provide traveler information, valuable incident management tools, and safer roadways to this important region. Although Delcan's work has been varied, our commitment to working in strong partnerships with our clients has never wavered. Delcan's diverse work has included:

Nebraska Department of Road's District Operations Center

Software Project: Networks®, a commercial off the shelf software tool, will form the basis for this regional, statewide and corridor ATMS system. The deployment includes the integration of all statewide field devices including cameras, dynamic message signs, vehicle detectors and remote weather information systems. Delcan is also integrating NDOR's highway condition reporting system and the state patrol's computer aided dispatch system.

Kansas City Scout: This bi-state traffic management system operates 24/7 and responds to 400 incidents per month. Delcan's ATMS software is the primary tool used to respond to incidents, with system generated response plans and DMS message sets tailored for the incident type and location. Delcan continues to work with Scout to add new features. In January, Scout began providing travel



times along major corridors near downtown, expansions are planned to increase the 90 miles of existing coverage.

Red Light Enforcement

Cameras: Delcan teamed with Traffipax, the largest provider of Photo Enforcement systems in the world, to provide turn-key traffic signal photo enforcement services to Kansas City and Gladstone. Delcan will provide a variety of traffic engineering services including site design. The project will improve traffic safety throughout the area by reducing red-light violations and resulting accidents.

Gateway Guide: This program is expanding rapidly. Multiple projects will expand cameras, sensors, fiber optics and message boards on several corridors in the St. Louis metro area. Delcan's ATMS software is being implemented to provide travel times, system generated response plans, and DMS message sets. Delcan also provided a new and improved gatewayguide.com web site.

Missouri Statewide Traffic Data and Traveler Information

Services: This project is the first statewide traffic probe information system. Probe data will be collected from various sources including anonymous cellular probes, GPS and taxi fleets, and delivery firm data. The probe data received will allow for real-time speed data from which travel times can be calculated to provide performance measurements and trip planning purposes.

Delcan is honored to be a part of these projects and the Heartland's ongoing successes in the ITS industry. For over 55 years, Delcan has provided systems and infrastructure solutions in three primary areas: Transportation, Water, and Information Technology.

Thank You to our Vendors for Your Support

P.I.C.S., Inc. (Portable Intelligence Collection Systems)

Telvent Farradyne Inc.

High Sierra Electronics, Inc.

SpeedInfo

MidAmerican Signal

RuggedCom, Inc.

Cohu Electronics Division

Traffic Control Corporation

Wavetronix LLC

Intergraph

Daktronics, Inc.

Quixote Transportation Technologies - Surface Systems, Inc.

ThomTech Design, Inc.

Skyline Dynamic Message Signs
EIS Inc.

Short-Elliott-Hendrickson, INC.

RouteMatch Software

Microwave Data Systems

Traffic Technologies

Professional Engineering Corporation

Electronic Technology, Inc.

Fiber Optic Display Systems, Inc.

Brown Traffic Products, Inc.

Speed Measurement Laboratories, Inc.

Teleste Video Networks

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