



ITS PULSE

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Special Vendor
Edition

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President's Message

by Jim McGee

It has been my pleasure to serve as the President of ITS Heartland for the past year. As we head to our 2006 Annual Meeting in Des Moines, things are looking great.

The 2006 Annual Meeting will be hosted by the Iowa DOT and will bring several hundred ITS practitioners from Iowa, Kansas, Missouri, Nebraska and Oklahoma to the Downtown Des Moines Marriott for a series of panels, workshops, presentations and the best ITS trade show between the two coasts. Featured speakers from FHWA, ITS America and AASHTO will discuss national issues, and ITS Heartland will elect a slate of new officers. We will unveil plans for the 2007 Annual Meeting in Omaha, and the new ITSH board of directors will begin planning for future annual meetings in Missouri (2008) and Kansas (2009). The 2009 meeting will be the tenth anniversary of ITSH.

As I leave my year as President of ITSH, I'd like to thank all of you for making our organization one of the largest and

healthiest state chapters in the country and for making the ITSH Annual Meeting the marquis event that it has become. ITS deployment in our five-state region is happening at a rapid rate, and that's no accident. ITSH has played a key role in that and will continue to do so well into the future.

From nothing to something in less than a decade is definitely something to brag about, and I'll continue to brag about ITS Heartland and the explosion of ITS deployment in our five-state region everywhere I go.

Thanks for allowing me to serve as your president for the past 12 months. The pleasure has really been mine.

Jim McGee
President, ITS Heartland
2005-06

FREE MARKETING OPPORTUNITY

If you are a member of ITS Heartland and have a Web site, please contact Dennis Kroeger (kroeger@iastate.edu) to create a link to your Web site from the ITS Heartland Web site. Just send him your URL.

Next ITS Heartland Annual Meeting
March 14-15, 2006
Des Moines, Iowa

Mark your calendar...
ITS Heartland 2007 Annual Meeting
April 10-11, 2007
Omaha, Nebraska

HNTB: A Longtime Leader in ITS

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:

- Maximizing the utility of 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

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

In the ITS Heartland region, HNTB provides local ITS resources supported by national expertise. Recent projects in the region include ITS design on: I-70 and I-44 in St. Louis; communications design for I-70, I-44, I-270, I-64, Route 370, Route 364 and Route 67 in St. Louis; I-435 in Kansas; I-35 in Kansas; and the I-435/I-470/U.S. 71 Interchange in Missouri. HNTB's



ITS planning contributions include: Wichita Signal System Upgrade, Kansas Turnpike Traveler Information System Enhancement Plan, U.S. 69 in Kansas and I-70 in Missouri. HNTB also planned and designed a temporary ITS deployment to support traffic management during the I-35/29 Missouri River crossing closure.

For more information contact: Chuck Miller, PE, (816) 527-2696, CMiller@HNTB.com in Kansas City or Luis Porrello, PE, (314)-241-2808, LPorrello@HNTB.com in St. Louis.

VANUS, Inc.

VANUS, Inc. (VANUS) is a professional engineering consulting firm specializing in intelligent transportation systems, traffic engineering and transportation and transit planning. From design through implementation, we create systems that advance mobility by combining the science of engineering and communications with intelligent design.

VANUS offers more than 20 years of experience in ITS architecture and

infrastructures to provide clients with innovative solutions conceived using highly customized approaches and proven technology.

Incorporating controllers, signal systems, dynamic message signs, closed circuit television cameras and incident detectors, we

formulate a network of devices for evaluating and communicating roadway conditions. Our designs and integrated systems provide real-time information to decrease

congestion, reduce collisions and improve emergency response times.

With offices in Mission, Kansas, and Tampa, Orlando and Miami,

Florida, VANUS emphasizes the quality of its services and practical solutions to transportation challenges.

To contact VANUS: (813) 831-8870 or www.vanusinc.com



For information about ITS Pulse or to recommend articles for future ITS Pulse editions, please contact your state representative.

ITS Pulse Contributors

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

Coordination: Valerie Lefler, University of Nebraska

Editing, Layout and Design:
Lisa Behrns, Olsson Associates



ThomTech Design, Inc.

Now is the time to collect snow and ice removal data from your public works vehicles such as snowplows, street sweepers and mowers.

Automatic Vehicle Location systems for your fleet will:

- Increase efficiency
- Protect against litigation
- Improve safety
- Save resources

ThomTech Design specializes in mobile data collection solutions. Our SnowOwl™ family of products



provides a wireless connection between mobile platforms and computer networks. ThomTech delivers automatic tagging of remotely gathered information to a web-enabled database; this includes event logging, such as time, location,

temperature, activity and geographic information. Our system generates reports, plays back routes and displays maps.

We also carry Web-Enabled



Remote Controlled Gate Arm for Transportation Enhancement. The WERC-GATE combines wireless technology and web-enabled design with reliable road closure hardware for enhancing traffic safety. This enables agencies to control important avenues of egress for sensitive evacuation routes during all types of emergencies. WERC-GATE is installed with five methods of control.

For more information, contact: ThomTech Design, 3830 Rustic Place, Saint Paul, MN 55126 (651) 482-9680 www.thomtechdesign.com

SRF Consulting Group, Inc.

SRF Consulting Group, Inc. provides planning, design, implementation, integration and evaluation services for traffic management, advanced transit and traveler information systems. We specialize in systems architecture, communications and network design; vehicle detection technology; road-weather information system sensor technology; and systems integration.

Our team of ITS professionals has real-world experience planning, designing and implementing a wide range of technologies including wireless, cellular, fiber optic and satellite communications.



CONSULTING GROUP, INC.

SRF has been instrumental in deploying and evaluating ITS systems for clients across the Midwest. We have designed an Advanced Transit Dispatch System and 10 Dynamic Message Sign sites for the Kansas Department of Transportation. Currently we are working with KDOT on approximately 10 AMBER Alert Dynamic Message Sign deployments across the state.

For more information, contact: Brian Scott at (763) 475-0010 or bscott@srfconsulting.com, or visit our web site at www.srfconsulting.com.

HDR Selected for MoDOT ITS Project

HDR Engineering, Inc. was recently selected by the Missouri Department of Transportation (MoDOT) for the development of plans, specifications and estimates to support the I-55 Intelligent Transportation System (ITS) in St. Louis. Other team members are HNTB Corporation; Engineering Design Source Inc.; Surdex Corporation; and Mathews and Associates, Inc.

The project limits encompass 29 miles of freeway segments on I-55 and I-64. The freeway segments include I-55 from north of I-44 to south of Route M and I-64 from the I-70/I-55 interchange to west of Sara Street. In addition, the fiber optic trunk lines will be

linked to arterial signal systems within close proximity to each interchange within the project limits. Activation of the ITS devices designed with this project will play an important role in improving freeway and incident management within the Gateway Guide system.

The HDR team will provide photogrammetric surveys, field surveys, ITS architecture and systems analysis, communications network design, structural design, construction plans, technical special provisions and post design services.

For more information contact: Derrick Lue, HDR Engineering, (813) 282- 2388

Olsson Associates



OLSSON ASSOCIATES
ENGINEERS • PLANNERS • SCIENTISTS • SURVEYORS

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



As part of this project, OA will finalize functional requirements and network configuration design, evaluate and test wireless communication hardware and monitor construction activities and approve final communication installation and implementation.

- Central Business District (CBD)—OA is providing fiber optic communications design and implementation oversight for CBD. OA will

also provide evaluation and testing of communication hardware and monitor construction activities and approve final communication installation and implementation. This project will create communication connectivity to over 100 signal controllers for the City of Kansas City.



- Kansas Transportation Operations Center—OA is part of the team studying the feasibility of a statewide transportation operation and management

center for the state of Kansas. This study has included meetings with over 150 stakeholders throughout the state and a scanning tour to Baton Rouge, Louisiana.

- Nebraska Department of Roads (NDOR), Traffic Monitoring Cameras, Phase 1—OA is leading the team that is designing implementation of traffic monitoring cameras for NDOR. The design covers camera technology analysis, sight reviews, communication network design and communication infrastructure design.

This project is the first phase of implementation of more than 100 cameras across the state of Nebraska.

For more information contact: Jeff Holsted at (913) 748-2554 or jholsted@oaconsulting.com.

Visit Olsson Associates on the web at www.oaconsulting.com.

OA is currently providing services on multiple ITS projects, including:

- Operation Green Light (OGL)—Phase 1 - OA is providing wireless communication design and implementation oversight for OGL. This phase will create communication connectivity among the OGL Center in Lee's Summit, Missouri, with approximately 600 signal controllers, three external traffic operation centers and 32 external workstations throughout the Kansas City area.

OMJC Signal, Inc.

OMJC Signal, Inc. manufactures portable ITS trailers. We manufacture portable masts that can be used for vehicle counts using radar and video technology. Their trailers are being successfully used



by state Dot's and notable by MO DOT.

OMJC Signal,

Inc. has been awarded national honors for their Wireless Traffic

Signal Control capabilities. This combined with their "Pop-Up" portable mast arm is the first of choice among many government agencies for emergency and planned traffic signal deployments. OMJC's "Pop-Up Quad" gained major attention in its deployments in Texas after Hurricane Rita.

See our deployment pictures and visit us on the web at: www.omjcsignal.com



Contact: Arlen Yost, President in Waterloo, Iowa
Phone (800) 776-5999 or arlen@omjcsignal.com

Iteris, Inc.



Iteris, Inc. is pleased to be a Platinum sponsor of the ITS Heartland 2006 Annual Meeting. Established in 1993, Iteris is a consulting firm specializing in traffic engineering, transportation planning, and ITS. Iteris has combined the expertise of traffic engineers, systems engineers and transportation planners to offer our customers superior solutions to today's transportation problems.



While our experience covers a broad range of ITS functions, our core competencies lie in the application of new technologies in urban traffic control to enhance mobility, reduce congestion, improve traffic safety and improve the quality of life. Our firm is nationally recognized as an authority in traffic operations, transportation planning, travel demand forecasting, traffic control systems, advanced transportation

management systems (ATMS), advanced traveler information systems (ATIS), public transit systems, bus rapid transit, commercial vehicle operations and rural ITS. We also are known for our experience in developing and maintaining the National ITS Architecture and applying the National ITS Architecture at the state and regional level.

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.

Please join us on Tuesday evening in Suite 3116 for food, beverages and conversation.

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, Minnesota, Denver, Colorado, and Detroit,

Michigan. We would like to thank our existing clients for the opportunity to serve you in recent years, and we are very excited about future opportunities with existing and new clients throughout the region. The following is a sampling of on-going or recently completed Iteris projects in the Heartland Region:

- City of Des Moines SE 14th Street/Fleur Drive CCTV Design
- Iowa DOT On-Call ITS Services
- City of Lincoln Traffic Count Program
- Iowa DOT I-74 Bridge Incident Management and Response System
- Wichita South Area Transportation Study
- NDOR District 2 DOC System Manager
- Southeast Nebraska Regional ITS Architecture
- Wichita-Sedgwick County Regional ITS Architecture
- NDOR Comprehensive Plan Assistance Program
- Development of TOC Concepts for South Dakota

In addition to our Transportation Systems division, Iteris also includes a Roadway Sensors and an Automotive Sensors division. The primary product offering of the Roadway Sensors division is Vantage Video Detection Systems for traffic control at intersections. Vantage also offers a data collection software solution for highway management systems, video surveillance systems and video transmission and isolation products. AutoVue, developed by our Automotive Sensors division, is a lane departure warning (LDW) system and important safety breakthrough for the automotive industry. The LDW system has increasingly widespread use among commercial vehicle fleets, as well as automobile original equipment manufacturers (OEMs), including Infinity automobiles.

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

Find us on the World Wide Web

www.itsa.org and www.itsheartland.org

Technology Plays Vital Role in Transportation Coordination

RouteMatch Software, a provider of advanced transportation management software and solutions, has helped the state of Iowa's Rural



Transit ITS Consortium implement the type of technologies needed to continually improve coordination. The Consortium, which includes 12 regional and three small urban transit systems that provide demand response transportation service in 77 of Iowa's 99 counties, is looking to achieve the following goals:

- standardize software, reporting and processes
- reduce system maintenance and on-going total costs of ownership
- leverage economies of scale and state purchasing power
- enhance local, regional and state coordination efforts.

Understanding that each provider has its unique challenges and goals, RouteMatch developed a solution to allow for the



coordination and standardization of many processes across the state while speaking to the individuality of each region. Each provider, however, shares the common goal of implementing state-of-the-art transit ITS technologies to increase efficiency, automate

processes and enhance capabilities.

For more information contact:

Beth Noland (Booth #32 – RouteMatch Software) at (404) 876-5160 or beth.noland@routematch.com.

Visit RouteMatch on the web at www.routematch.com.

RuggedCom, Inc: Deploying Ethernet in ITS

Use of Ethernet in ITS applications offers many advantages, including cost effective real-time control and seamless interoperability between devices. It's important to select field-hardened network devices like RuggedCom's family of field-hardened, fully managed Ethernet switches and serial servers.

Rated for reliable operation in temperatures ranging from -40C to +85C, and featuring RuggedCom Zero-Packet-Loss technology for immunity to electromagnetic interference, the RuggedSwitch family easily exceeds the NEMA TS2 environmental requirements for traffic control equipment mounted in curbside cabinets. The reliability of RuggedCom product families exceed those of commercial devices by having no rotating mechanical parts, utilizing high-temperature solid state components and incorporating the necessary transient and surge suppression circuitry required for harsh traffic environments.

For more information, contact Dave McGee, Regional Sales Manager - Midwest, RuggedCom, Inc. at (847) 426-5606 or davidmcgee@ruggedcom.com. Or visit: www.ruggedcom.com



PB Farradyne

Please visit PB Farradyne in Booth #7 this year for a demonstration of MIST® Version 4, our powerful and multi-functional transportation management software. MIST® is deployable as a COTS software with little customization required and utilizes NTCIP standards. MIST® is very operator friendly and requires minimal training to get started. MIST® Version 4 is a proven ATMS and traffic signal control software package based on several years of development and deployment across the country.



We look forward to visiting with you.

For more information contact:

Matt Volz with PB Farradyne at (314) 206-4207 or volz@pbworld.com.



Traffic Control Corporation

The best products, exceptional service and a focus on solutions rather than equipment separate Traffic Control Corporation in the Midwest. We are a full service ITS and traffic system provider and a Midwest leader in helping agencies improve traffic flow, enhance safety and be more efficient in all aspects of traffic operations.

Intelligent transportation systems should make jobs easier and more effective rather than more complex. Don't get stuck when you find a problem for a product; let us help you turn your problems into solutions. Ask us how we can help you provide more value for your customer, the traveler, while maximizing your effectiveness.

Please visit us at our booth at ITS Heartland to talk to Ken, Doug and Grant, or visit us at www.trafficcontrolcorp.com.



Short Elliott Hendrickson Inc.

Short Elliott Hendrickson Inc. (SEH) is a multidisciplinary firm of engineers, architects, planners and scientists known for its strong, comprehensive technical capabilities and superior client service. SEH has been a trusted resource for more than 75 years to local governments; state and regional agencies; and federal, industrial and private clients. We have more than 750 qualified professionals working in over 30 offices in 10 states. Our team environment is dynamic and inspires continuous skill and personal development. As a privately held, employee-owned firm, we take our business seriously.

The ITS team at SEH has managed projects ranging from traveler information and traffic management to emergency management and public safety. The team has

provided project and program management, design, planning and evaluation services. SEH technology engineers and professionals have decades of experience in scoping, planning, developing, designing, managing, delivering, evaluating and implementing ITS projects. Our ability to deliver ITS programs is grounded in a wide array of engineering expertise - traffic, civil, electrical, structural and software.

For more information contact: Ginny Crowson, Director of ITS Services, at (612) 758-6725 or gcrowson@sehinc.com.

Or visit SEH on the web: www.sehinc.com



Mixon/Hill, Inc.

Mixon/Hill, Inc. is a full-service engineering and consulting firm focusing on the development of solutions in the fields of transportation system management and operations and ITS. Founded in 2003 by Lee T. Mixon, P.E. and Dr. Christopher J. Hill, the firm builds on the experience of these two individuals, combined with the capabilities of an exceptionally well-qualified staff. The Mixon/Hill key personnel have been chosen for the wide range of skills they bring from a very broad set of backgrounds - together this diversity of experience brings fresh solutions to the needs of the surface transportation system.

Mixon/Hill is committed to finding the best solution to our clients' needs. We do this by:

Partnering with the client — We build a relationship that allows us to fully explore and understand the customer's explicit and implicit needs in an environment of trust and mutual respect;

Exploring the options in an objective manner

— We believe in thinking before we act and will push the envelope on a problem by exploring creative and innovative solutions;

Considering the life-cycle from day one — Understanding the investment that the client is making in our work and striving to make that investment a wise one, we will always consider the future implications of our design approach and will endeavor to minimize the risks and impacts of a changing environment;

Maintaining disciplined processes and procedures — In order to deliver the products and services as promised, we have integrated disciplined systems engineering, configuration management, project management, quality assurance, quality control, and continuous improvement processes and procedures into our organization.

With its corporate headquarters in Overland Park, Kansas, Mixon/Hill has an established record of service in the heartland. A sampling of completed and current projects includes:

- Low-Cost Surveillance for Rural Evacuation Routes (for FHWA, and with testing in cooperation with NDOR)
- Kansas City Scout Intermodal Integration (for MoDOT)
- Transportation Communications Needs Assessment and Master Plan (for NDOR)
- Omaha Roadway Sensor Pilot Project (for NDOR)
- Integrated Statewide Management and Operations System (for MoDOT)
- 511® Traveler Information System (for MoDOT)
- StarTran's Automated Vehicle Location System (for City of Lincoln, Nebraska)
- *Clarus* Weather System Design Project (for FHWA)
- Weather Response System (for FHWA and MoDOT)
- Concept Development and Program Support (for the High Plains Coalition, headed by NDOR)

Mixon/Hill is pleased to continue its involvement with ITS Heartland as a Platinum sponsor of this year's annual meeting. Chris Hill will present on Mixon/Hill's *Clarus* Weather System Design Project, a Federal Highway Administration initiative, at this meeting and looks forward to a discussion with those interested.

For more information about Mixon/Hill and its consulting services, please contact:
Lee Mixon at (913) 239-8400 or
lee.mixon@mixonhill.com.



ITS Heartland 2005-06 Board of Directors Quick Contact List

President

Jim McGee

Nebraska Department of Roads
500 Nebraska Highway 2
Lincoln, NE 68509
Phone: (402) 479-3878
Cell: (402) 450-8189
Fax: (402) 479-3771
jimmcgee@dor.state.ne.us

Vice President - President Elect

Willy Sorenson

Iowa Department of Transportation
800 Lincoln Way
Ames, IA 50010
Phone: (515) 239-1212
Fax: (515) 239-1994
willy.sorenson@dot.state.ia.us

Secretary-Treasurer

Tom Dancy

City of Springfield
P.O. Box 8368
Springfield, MO 65801
Phone: (417) 837-5799
Fax: (417) 837-5791
tom_dancy@ci.springfield.mo.us

Past President

Leslie Spencer Fowler

Kansas Department of Transportation
915 S.W. Harrison
Topeka, KS 66215
Phone: (785) 296-8031
Fax: (785) 296-0119
leslie@ksdot.org

Private Sector Director #2

Bruce Baldwin

PB Farradyne
600 NE Colbern Rd
PO Box 648002
Lee's Summit, MO 64086
Cell: (913) 485-2682
baldwinb@pbworld.com

Academia Sector Director #1

Stan Young

Kansas State University
Advanced Technology Research
Engineer 2300 Van Buren St
Topeka, KS 66611
Phone: (785) 296-3008
Fax: (785) 296-2526
young@ksdot.org

Academia Sector Director #2

Shauna Hallmark

Iowa State University
Department of Civil, Construction and
Environmental Engineering
402 Town Engineering
Iowa State University
Ames, IA 50011
Phone: (515) 294-5249
Fax: (515) 294-8216
shallmar@iastate.edu

Kansas State Director

Steve Rockers

Kansas Department of Transportation
915 S.W. Harrison
Topeka, KS 66215
Phone: (785) 296-1004
Fax: (785) 296-6496
SRockers@ksdot.org

Nebraska State Director

Steve Garbe

Nebraska Department of
Transportation
1500 Nebraska Highway 2
P.O. Box 94759
Lincoln, NE 68509-4759
Phone: (402) 479-3862
Fax: (402) 479-3771
stevengarbe@dor.state.ne.us

Iowa State Director & Ex-Officio

Web Site Administrator

Dennis Kroeger
CTRE- Iowa State University
2901 S. Loop Drive #3100

Ames, IA 50010

Phone: (515) 294-8103

Fax: (515) 294-0467

kroeger@iastate.edu

Missouri State Director

Ray Webb

Kansas City Scout
600 NE Colbern Road
Lee's Summit, MO 64086
Phone: (816) 622-0520
Fax: (816) 622-0440
raymond.webb@modot.mo.gov

Oklahoma State Director

Alan Stevenson

Oklahoma Department of
Transportation
200 N. E 21st St.
Oklahoma City, OK 73105
Phone: 405-521-6460
Fax: 405-605-6170
astevenson@fd9ns01.oklandot.state.ok

Ex-Officio FHWA Representative

Jim Brachtel

FHWA Iowa Divison
105 6th Street
Ames, IA 50010-6337
Phone: (515) 233-7300
Fax: (515) 233-7499
Jim.brachtel@fhwa.dot.gov

Ex-Officio Chapter

Administrator

Valerie Lefler

Mid-America Transportation Center
University of Nebraska-Lincoln
W338 Nebraska Hall
Lincoln, NE 68588-0530
Phone: (402) 472-1974
Fax: (402) 472-0859
vlefler2@unl.edu

ITS
Web sites

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www.nebraskal80construction.com

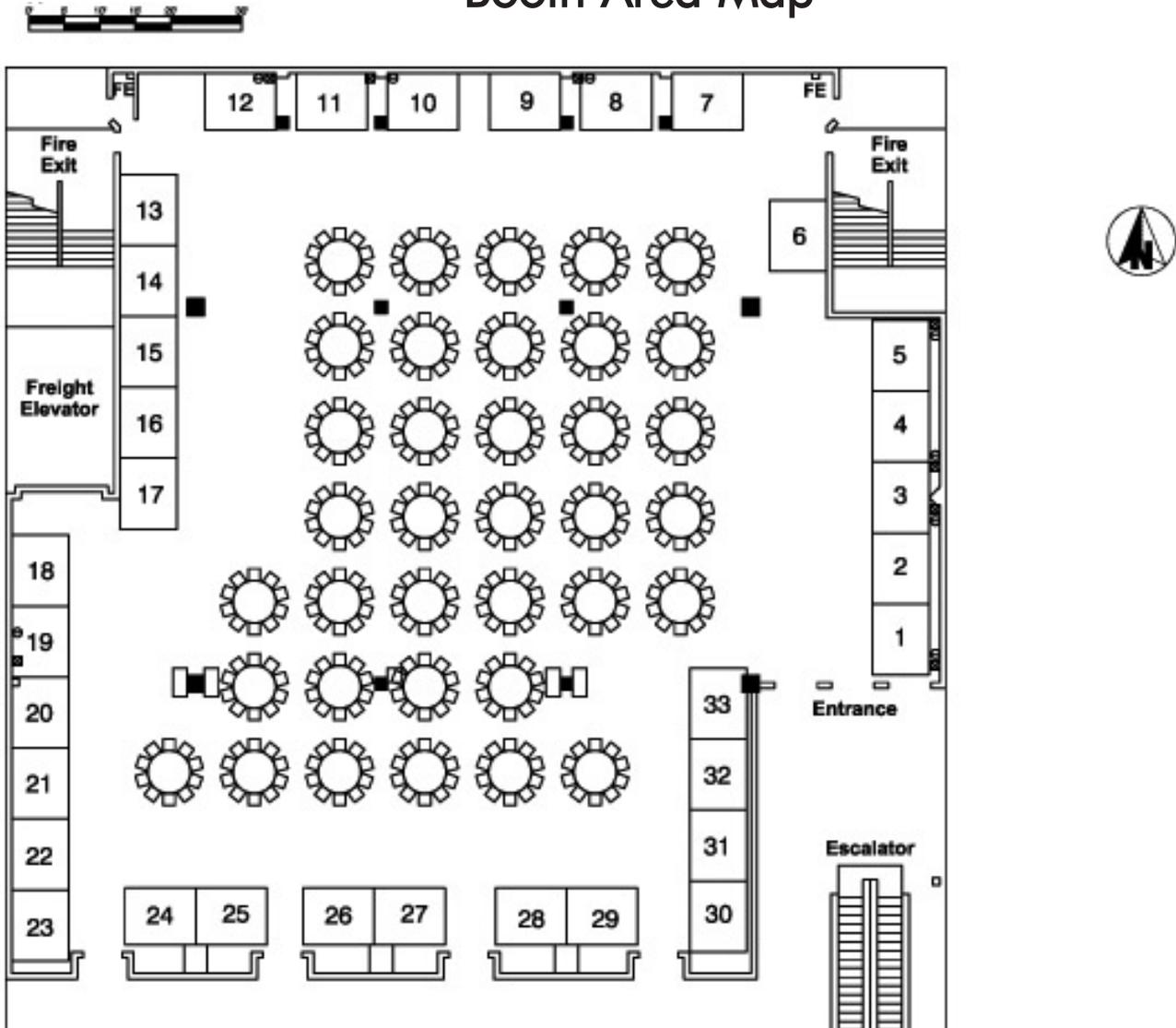
www.safetravelusa.com

www.511ia.org

www.kanroad.org

www.OzarksTraffic.info

Booth Area Map



Partial List of Vendors & Booth Number

ADDCO Inc	29	OMJC Signal, Inc.	20
All Traffic Solutions	19	Open Roads Consulting	17
American Signal Company	13	PB Farradyne	7
Atlantic Scientific Corp	26	RouteMatch Software	32
Barco Visual Solutions	10	RuggedCom, Inc.	8
Brown Traffic Products, Inc.	3	Short Elliott Hendrickson	2
Cohu Electronics	33	Skyline Products Dynamic Message Signs	4
Daktronics	11	ThomTech Design, Inc.	24
EIS Inc.	1	Traffic Control Corporation	9
JamLogic	5	URS Corporation, Inc.	16
Mid American Signal	6	Wavetronix, LLC	12

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