



ITSVA 17th Annual Conference & Exposition

May 4-5, 2011

Omni Richmond Hotel
Richmond, Virginia



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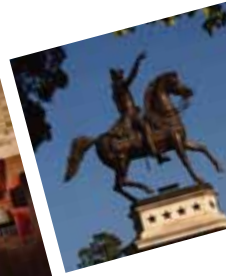
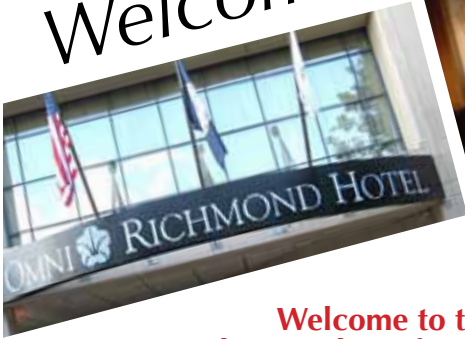
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Welcome!



Welcome to the ITSVA 17th Annual Conference & Exhibition - Connecting With Innovation -

We are excited to be returning to the Omni Richmond Hotel. While you are here, I hope that you will take advantage of downtown Richmond's restaurants and shops.

On Wednesday, we will have a variety of exciting sessions including "Perspectives on ITS Innovation," "Active Traffic Management," "Integrated Freight Management," and "Transportation Safety." Our Special Guest Speaker at Lunch will be Delegate Joe May, Chairman of the Virginia House of Delegates Committee on Transportation. The day will conclude with the ITSVA Annual Business Meeting where ITSVA election results will be announced and a Cocktail Reception where you can mingle with your colleagues and visit with exhibitors.

On Thursday morning, we will feature sessions on "Planning the Way Forward," "Supporting Operations Through Data," "VDOT's New Customer Service Center," and an open forum discussion on Transit Technology. The conference will conclude with an overview of upcoming ITS work in the Commonwealth including the Hampton Roads TPO's efforts & initiatives and ITS work at VDOT and in the VDOT regions.

Finally, we value your feedback for future conferences so please do not hesitate to let us know of any suggestions you may have.

Ken Jennings
ITSVA President

Conference Agenda

WEDNESDAY, MAY 4TH

9 AM – 10:30 AM

POTOMAC E, F & G

Perspectives on ITS Innovation

Moderator: Ken Jennings, DMV

Tom Kern from ITS America will lead off our opening panel discussion by detailing the direction of national ITS initiatives. Next, DMV Commissioner Rick Holcomb will discuss how the Commonwealth of Virginia is moving forward with ITS-related technology so that more and more DMV functions such as licensing and freight movement approvals can be handled online, providing customers with faster service, reducing costs and improving security. DRPT Director Thelma Drake will conclude the panel by explaining some innovations that will increase the efficiency of freight movement across the state and also contribute to development of mass transit options.

10:30 AM – 10:45 AM

EXHIBIT HALL

Break

10:45 AM – 12 Noon

POTOMAC E, F & G

Active Traffic Management

Moderator: Moe Zarean, Ph.D, P.E., Iteris

Active Traffic Management around the World - Lessons for Virginia

Glenn Havinoviski, P.E., Iteris

I-66 ATM

Chris Francis, Ph.D., VDOT Active

Transportation and Demand Management – Looking at the Big Picture

Robert Sheehan, FHWA

12 Noon – 1:30 PM

EXHIBIT HALL

Lunch

Special Guest Speaker, Delegate Joe T. May

Sponsored by



1:30 PM – 3 PM

POTOMAC E, F & G

Recent Developments in Integrated Freight Management

Moderator: Ken Jennings, DMV

Multimodal Planning & Corridors of Statewide Significance

Michael L. Todd, Multimodal Planning Specialist, Office of the Virginia Secretary of Transportation

The Complete Guide to Port Construction

Gregory J. Edwards, Virginia Port Authority

US Route 460 Corridor Improvements – PPTA Project

Margi Ray, VDOT, Office of Transportation Public Private Partnerships

3 PM – 3:30 PM

EXHIBIT HALL

Break

Sponsored by



3:30 PM – 5:00 PM

POTOMAC E, F & G

Transportation Safety

Moderator: Keith Jasper, Delcan

Distracted Driving

Dr. Sheila (Charlie) Garness Klauer, VTTI

**ITS Program Overview:
Towards Wireless Connectivity
in Surface Transportation**

*James Pol, USDOT ITS Joint
Program Office*

5 PM – 5:15 PM

POTOMAC G

**ITS Virginia Annual
Business Meeting**

*Official business including the
election of new officers.*

6:00 – 7:00 PM

EXHIBIT HALL

Reception

*Join us for Cocktails, mingle with
your colleagues and visit with the
exhibitors!*

Sponsored by



Dinner on Your Own

THURSDAY, MAY 5TH

7 AM – 8 AM

EXHIBIT HALL

**Continental Breakfast
& Exhibit Hall Opens**

8 AM – 9:15 AM

POTOMAC E, F & G

**CONCURRENT SESSION I A
Planning the Way Forward**

Moderator: Cathy McGhee, VDOT

continued

Highlighting Operations in Virginia's Long Range Transportation Plans

*Brad Shelton, VDOT, Office of
Transportation and Mobility
Planning*

Planning for Transit Improvements in Virginia

*Mike Harris, Virginia Department of
Rail and Public Transportation*

Options for Considering Operational Improvements in the Planning Process

*John Miller, Virginia Center for
Transportation Innovation and
Research*

8 AM – 9:15 AM

SHENANDOAH H & J

CONCURRENT SESSION I B Supporting Operations Through Data

Moderator: Ken Earnest, VDOT

USDOT Perspective on Data Collection, Aggregation and Distribution

*Walter During, Federal Highway
Administration*

Statewide Traffic Data for Operational Use

*Mena Lockwood, VDOT and Tom
Schinkel, VDOT*

Uses of Bluetooth Traffic Data

*Stan Young, University of Maryland,
Center for Advanced Transportation
Technology*

9:15 – 9:30 AM

EXHIBIT HALL

Break

9:30 AM – 11 AM

POTOMAC E, F & G

CONCURRENT SESSION II A VDOT's New Customer Service Center

*Moderator: Robb Alexander, P.E.,
VDOT*

*Ken King, VDOT, Southwestern
Region Operations Director*

Murali Rao, VDOT, IT Division

*Heidi Underwood, VDOT,
Salem District*



9:30 AM – 11 AM

SHENANDOAH H & J

CONCURRENT SESSION II B
Open Forum Discussion
on Transit Technology

Moderator: Mike Harris, DRPT

Instead, attendees will discuss several topics that relate to their experiences with ITS implementations, and share what they have learned and the challenges they face. We hope you walk away with a 'big picture' understanding of the overall transit ITS environment in Virginia. In addition, we know you will find value in discussing ITS issues with the ITS community in the Commonwealth of Virginia, as a means of improving your own understanding of the technologies and issues.

ITS Work at VDOT and in the VDOT Regions

Connie Sorrell – Chief of System Operations, VDOT

Tom Phillips – Operations and Security Division Administrator, VDOT

Dwayne Cook – Eastern Region Operations Director

Dean Gustafson – Northwestern Region Operations Director

Ken King – Southwestern Region Operations Director

Jim Smith – Central Region Operations Director

Hari Sripathi – Northern Region Operations Director

11 AM – 12:30 PM

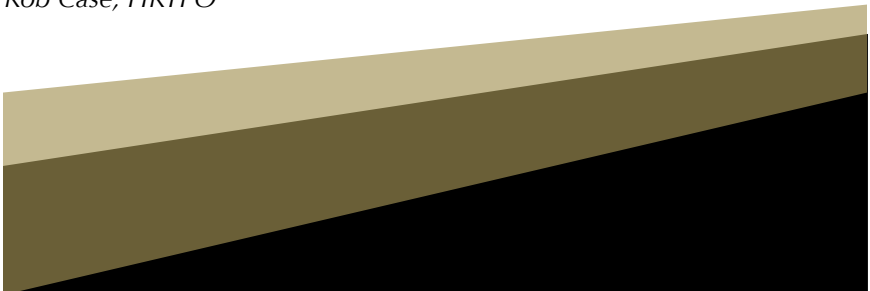
POTOMAC E, F & G

Upcoming ITS Work
in the Commonwealth

Moderator: Greg Pieper

HRTPO Efforts & Initiatives

Rob Case, HRTPO



Speakers

■ **Robert B. Case** is a Principal Transportation Engineer with the Hampton Roads Transportation Planning Organization (HRTPO), where he leads a team of engineers who staff the Hampton Roads Transportation Operations subcommittee and perform corridor studies, congestion analyses, and freight studies. He is a licensed Professional Engineer in Virginia, a registered Professional Traffic Operations Engineer, and an ASCE Fellow. He received a B.S. in Civil Engineering from Old Dominion University and an M.S. in Civil Engineering from Georgia Tech.

■ **Dwayne Cook**

■ **Thelma Drake** is the Director of Rail and Public Transportation for the Commonwealth of Virginia. She is a former member of the U.S. House of Representatives (2005-2008) and Virginia's House of Delegates (1996-2004). Her Congressional committee assignments included House Armed Services; Transportation and Infrastructure; Resources; and Education and Workforce. During her four years in Congress she was a strong advocate for military personnel and their families and she was a constant voice in offering meaningful solutions to America's complex energy challenges. In the Virginia House of Delegates she

served on Transportation; General Laws; Corporations, Insurance and Banking; and Finance Committees. She also chaired the Virginia Housing Study Commission and served on the Chesapeake Bay Commission. In addition to her national and statewide congressional tenure, Drake has over 30 years of experience and success in the real estate profession.

■ **Walter During** is a Transportation Specialist in the Office of Transportation Management at the Federal Highway Administration. Prior to joining the Administration in 2009, he was the Design Engineer at VDOT in the Staunton District and subsequently, the Traffic Engineer for the Winchester area. Earlier, he worked for a local government and also in the consultancy services in the areas of traffic management and transportation planning. During holds an M.S. in Civil Engineering and is a registered P.E.

■ **Gregory J. Edwards** originally joined the Virginia Port Authority in July 1992, and then went to work for Norfolk Southern Railroad in the corporate headquarters as their Intermodal Account Manager for the Mid-Atlantic Region. He rejoined the Port Authority in 2000 and served as the Managing Director of Marketing & Intermodal

until December 2008. In 2009, he assumed the position of Director of External Affairs where he currently oversees media and community relations and supports the Senior Deputy Executive Director in the area of governmental relations and outreach. He serves on the board of "Future of Hampton Roads" and is a graduate of the State Chamber's LEAD Virginia program, class of 2009. He is currently enrolled in the LEAD Hampton Roads class of 2011 and is a graduate of Old Dominion University in Norfolk (B.A. in English, Journalism Emphasis, May 1992).

■ **Chris Francis**, Ph.D. is the ITS Development Manager for VDOT's Operations and Security Division (OSD). Chris is responsible for advancing VDOT's Operations Program through the Statewide Systems Operations Program, ITS Architectures, Secretary/Commissioner's New Technology Initiatives (ATM, ICM, DMA, and Connected Vehicle Initiatives) and the Six Year Operations Improvement Program, OSD's vehicle to deliver ITS, Operations, and Special Facilities projects. He has over 25 years of professional experience in field of Traffic and Transportation serving VDOT from 2006 and has worked in Transportation Planning, Traffic Engineering, Traffic Operations, and

Highway Maintenance in India, New Zealand, and the USA. He holds a BS in Civil Engineering, MS in Transportation Engineering, and a PhD in Land Use Transportation Planning.

■ **Dean Gustafson**, P.E., PTOE

■ **Michael Harris** is a Project Manager/Coordinator for the Virginia Department of Rail and Public Transportation in Northern Virginia. He has 25 years experience in the ITS operations, transit, traffic engineering and transportation planning. He holds a Bachelors Degree in Civil Engineering from Penn State University and a Masters Degree in Urban Systems Engineering from George Mason University. He is a board member of ITS Virginia.

■ **Glenn Havinoviski**, P.E. is an international expert in Intelligent Transportation Systems (ITS), with a particular focus on active traffic management, road pricing, and freeway management, along with bus rapid transit and related traffic signal priority operations activities. His 28 years of experience (26 in consulting, 2 in the public sector) include serving as both a practice builder and a practice leader, providing project management

continued

and technical leadership for ITS and traffic management projects in Virginia and 16 other states, along with projects in Dubai, Abu Dhabi, Taiwan, Hungary, Mexico and Saudi Arabia. His specialties include planning, design and implementation of traffic management and traveler information systems; development of arterial, freeway and multi-modal ITS applications including high-occupancy tolling facilities; national, corridor, statewide and regional ITS architecture and planning activities; public transport-related traffic signal systems priority activities; and technical training related to ITS planning and systems engineering (National Highway Institute courses). Mr. Havinovski is currently a registered professional engineer in Virginia, Maryland, DC, North Carolina, Delaware, and New York State. He is a member of the Institute of Transportation Engineers and a past president of ITS Virginia.

■ **Richard D. Holcomb** is the Commissioner of the Virginia Department of Motor Vehicles, a state agency with a budget of approximately \$200 million and a statewide workforce of more than 1,800 employees. Holcomb oversees the collection of approximately \$2.2 billion dollars in revenue annually, which funds a

significant portion of the state's new roads, and highway construction and maintenance. In addition, he serves as the Governor's Highway Safety Representative, on the Washington Metropolitan Area Transit Commission, and was appointed by Governor Robert F. McDonnell to serve on Virginia's Information Technology Advisory Council. He is chairman of the Virginia Motor Vehicle Dealer Board, and a member of the Virginia Board of Towing and Recovery Operators. This is Holcomb's second stint as the leader of DMV. He previously served as Commissioner under Governor George F. Allen and Governor James S. Gilmore.

■ **Tom Kern** is the Executive Vice President of ITS America where he provides oversight and support for all technical programs, business development activities, legislative initiatives, meeting planning, member sales and service, and communications. Prior to joining ITS America, Tom was a senior associate at the Annie E. Casey Foundation, overseeing knowledge management and organizational learning. He previously served as deputy executive vice president of the American Consulting Engineers Council, the executive director of its Research Foundation, program manager for American Management

Systems, Inc., and as a public servant in the U.S. Environmental Protection Agency. In his spare time, Tom is an adjunct instructor in knowledge management at Johns Hopkins University. He holds a BA in Government and Economics from Georgetown University, earned his MPA from the London School of Economics, and attended Oxford University where he did graduate work in the Department of Politics.

■ **Ken King** is the VDOT Southwest Regional Operations Director, which serves the Bristol, Salem and Lynchburg Districts including the operation of the mountain tunnels along Interstate 77. In addition to the duties within these Districts, Ken also directs the operation of VDOT's statewide Customer Service Center. Prior to joining VDOT, he managed the City of Roanoke's Transportation Division and also worked for the North Carolina Department of Transportation and the City of Greensboro in the areas of Traffic Engineering, Land Development, and Transportation Planning, including MPO operations and administration. Ken received his civil engineering undergraduate degree from Old Dominion University and is a licensed professional engineer in Virginia and North Carolina.

■ **Dr. Sheila (Charlie) Garness Klauer** has been working in transportation human factors since 1997, initially at the Battelle Human Factors Transportation Center (Seattle, WA) and then at VTTI. Her primary research interests include driver distraction and fatigue issues. Currently, she is the project manager for the Naturalistic Teenage Driving Study; a study investigating the driving behaviors of newly licensed teen drivers during their first 18 months of driving. She will also be involved in the upcoming Driver Coach study. The focus of the Driver Coach study will be to evaluate the benefits of providing feedback when teens engage in risky driving behaviors (e.g. hard braking, speeding, alcohol use, and looking away from the forward roadway for extended periods of time.) Dr. Klauer has authored or co-authored over 30 journal or technical reports, is a member of the Human Factors and Ergonomics Society and a member of the TRB Young Driver Safety Subcommittee. She has also testified before state legislative transportation subcommittees as an expert on driver distraction and appeared on several national media news programs.

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■ **Mena Lockwood**, is an Assistant State Traffic Engineer responsible for Traffic Data, Analysis and Engineering Studies. In the 15 years she has spent at VDOT, she has worked at the Northern Virginia District, the Fairfax Residency, the Virginia Transportation Research Council, the Central Office Planning Division, and the Operations and Security Division. She also spent several years working for KCM Consulting in Portland OR. Lockwood has a BSCE from Virginia Tech and a MSCE from the University of Virginia and is a registered Professional Engineer in Virginia.

■ **John Miller** has been a research scientist with what is now the Virginia Center for Transportation Innovation and Research (VCTIR), since 1994, focusing on safety and planning. At present, he also serves as adjunct faculty with the University of Virginia Department of Civil and Environmental Engineering. Prior to joining VCTIR, John taught with the U.S. Peace Corps at the Collège d'Enseignement de Mandji, Gabon. He has a B.S. in Electrical Engineering and a Ph.D. in Civil Engineering from the University of Virginia, and he is a licensed professional engineer in Virginia.

■ **Tom Phillips**

■ **James Pol** is the Team Leader for Program Management and Evaluation in the USDOT ITS Joint Program Office. He was involved in the development of data and information management programs such as traveler information/511, archived data management, transportation management center operations, and road weather management (including the Clarus Initiative). The Government Accountability Office cited James as a national expert in traveler information programs in a 2010 report on the topic. Pol now oversees the independent evaluation of all ITS research conducted by the U.S. Department of Transportation to ensure the greatest validity in costs and benefits information on ITS for stakeholders worldwide. He has a bachelor's in Civil Engineering from Rensselaer Polytechnic Institute, a master's in Computer Systems Management from the University of Maryland, and he is a registered professional engineer in Delaware. James is also a certified Project Management Professional from the Project Management Institute.

■ **Murali Rao** is currently the Information Technology Director for VDOT where he is responsible for all IT functions, including IT Administration and Governance, Systems Engineering, Software

Development and Application Maintenance, and Enterprise Data Management. He also manages IT infrastructure and operations support provided by the Virginia Information Technologies Agency. Since 2005, Rao has also served as the agency Information Security Officer, responsible for security policy, planning, implementation and compliance monitoring. He directs a statewide program with 180 employees and consultants, and manages an annual IT budget of \$70 million. He has been with VDOT for 17 years, and has 24 years of IT management experience. He holds a BS in Physics and an MS in Computer Engineering.

■ **Margie Ray** is a Program Manager in the newly created Office of Transportation Public-Private Partnerships (or PPTA Office) for the Commonwealth of Virginia. She has more than 13 years experience in the private sector before joining the Virginia Department of Transportation in 2001. In her current role, she facilitates the development and procurement of contracts for Public Private Transportation Act (Virginia's Public Private Partnership legislation) and develops policies, procedures and guidance documents, and coordinates innovative delivery activities among federal and local government transportation agencies.

Ray received her undergraduate degree in Geology from the College of William and Mary and her master's degree in Environmental Sciences from the University of Virginia.

■ **Tom Schinkel** has been with the Virginia Department of Transportation since 1990 and has been the program manager for the state's traffic data collection program since 1997. Prior to working for VDOT, Schinkel served for several years as a Logistics Officer in the United States Army. He has a BS in Economics from South Dakota State University and an MS in Administration from Central Michigan University.

■ **Robert Sheehan, P.E.**, PTOE is a Transportation Specialist with the Federal Highway Administration (FHWA), Office of Operations - Transportation Management. He joined FHWA in August 2008 and supports the U.S. Department of Transportation (USDOT) Integrated Corridor Management (ICM) Initiative, Active Transportation and Demand Management program, and Tolling/Pricing technologies. Prior to joining the FHWA, he spent 8 years at the Virginia Department of Transportation (VDOT), Northern Region as the Field Operations

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Manager for the Smart Traffic Signal System and Freeway Operations Engineer for the Smart Traffic Center. He received his Professional Engineer license in 2004 and his Professional Traffic Operations Engineer certification in 2008. Bob has a Master's Degree in Civil Engineering from Virginia Tech and a Bachelor's Degree in Civil Engineering from West Virginia University.

■ **Brad Shelton** is the Statewide Highway Plan Project Manager for VDOT's Transportation and Mobility Planning Division. Over the last four years, Brad has been responsible for leading an interdisciplinary team in the development of the highway element of the 2035 Virginia Surface Transportation Plan. He has also performed work in the areas of transportation policy, functional classification, access management and served as a member of the Multimodal Advisory Committee responsible for developing the state's long-range multimodal policy plan, VTrans2035. Prior to joining VDOT, Brad worked as a principal planner for Goochland County, VA and as a transportation planner for Montgomery County, PA and the Richmond Area MPO. He holds an undergraduate degree in Urban Studies and a Master's of Urban and Regional Planning, both from

Virginia Commonwealth University and is a member of the American Institute of Certified Planners.

■ **Jim Smith**

■ **Connie Sorrell** is Chief of System Operations at the Virginia Department of Transportation, responsible for the \$1.2 billion dollar maintenance and operations programs. The programs cover over 57,000 miles of highways throughout Virginia. In addition to directing all roadway maintenance and asset management programs and funding, she also has responsibilities for safety, traffic engineering, incident management, ITS, traveler information, security and emergency management programs. The performance-based programs and services also include the operations of many special facilities, including tunnels, ferries and the 41 safety rest stops in Virginia. Sorrell, who came to VDOT in 1982, has also served as Chief of Policy and Organizational Development, as well as District Administrator for the Richmond and Hampton Roads Districts. Sorrell is a member the ITS America Board of Directors and serves as a member of the TRB Research and Technology Coordinating Committee that advises FHWA and Congress on the FHWA research program and the Strategic Highway Research

Program Committee on Reliability of travel.

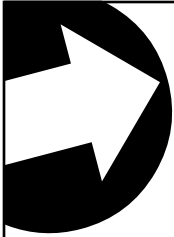
■ **Hari Sripathi**

■ **Michael L. Todd** is currently serving the Commonwealth as a Multimodal Planning Specialist with the Office of Intermodal Planning and Investment under the Transportation Secretariat. Most of his transportation planning career has been spent in Richmond working in either the private or public sector, including the Richmond office of Michael Baker Jr., Inc. as a transportation planner. While working with Baker, he participated in multiple local area planning efforts such as the Chesterfield Comprehensive Plan update and the Broad Street Rapid Transit Study, as well as many other long range planning efforts and multimodal corridor studies throughout the state, including the Southeast High Speed Rail Tier II EIS from Richmond to Raleigh, NC.

■ **Heidi Underwood** has served as the public affairs manager for VDOT's Salem District since 2007. In this position, she is responsible for developing and supervising the internal and external communications program for the Salem District. Underwood is also an active participant on a number of statewide public affairs committees

within the agency, and helped lead the outreach and advertising campaign related to the launch of the new VDOT Customer Service Center. She holds a master's degree in liberal studies from Hollins University and a bachelor's degree from Mount Union College in Mass Media and Communications.

■ **Stan Young, Ph.D.**, has been a member of the Research Faculty at the University of Maryland Center for Advanced Transportation Technology since 2006, specializing in traffic detection, monitoring and performance measures. He is also president of Traffax Inc., a university startup created to commercialize Bluetooth Traffic Monitoring technology developed at the University of Maryland. Prior to joining UMD, Dr. Young spent 12 years with the Kansas Department of Transportation (KDOT), which included positions in transportation planning, pavement management, IT management and advanced technology research. He earned his PhD in Engineering from Kansas State University, and is the current president of the Advanced Transit Association.



Omni Richmond Hotel Conference Floor Plan



EXPOSITION HOURS FOR THIS YEAR'S CONFERENCE ARE:

- **Wednesday, May 4th**
10:30 a.m. - 7 p.m.
- **Thursday, May 5th**
7 a.m. - 10 a.m.
- **In addition, the Continental breakfast Thursday, all breaks, lunch and the reception on Wednesday are held in the Exhibit Hall.**

Exhibitors

AECOM

AECOM

Booth #13

AECOM is a global provider of professional technical and management support services to a broad range of markets, including transportation, facilities, environmental, energy, water and government. With approximately 45,000 employees around the world, AECOM is a leader in all of the key markets that it serves. AECOM provides a blend of global reach, local knowledge, innovation, and technical excellence in delivering solutions that create, enhance and sustain the world's built, natural, and social environments. A Fortune 500 company, AECOM serves clients in approximately 125 countries.



Citilog

Booth #9

Citilog is a world leading provider of video analytic solutions for the traffic and transportation markets. Citilog's Highway suite of software-based products (MediaTunnel, MediaRoad, VisioPad, MediaTD) provide instant real time incident detection for tunnels, bridges, and roadways to enable proactive responses that aid in maximizing

efficiency and minimizing risk and losses. Citilog's urban traffic management solutions (Xcam-p, XCam-ng, XCam-td) provide innovative solutions to improve traffic flow through intersections and significantly reduce traffic congestion in cities as well as related emission of green house gas effect and other pollutants.

COHU

Cohu, Inc. / Electronics Division

ISO 9001 Certified

CoHu, Inc.

Booth #12

CoHu Inc., Electronics Division is recognized worldwide as a leading U.S. designer and manufacturer of high-performance closed-circuit television cameras and systems for ITS/Traffic Management applications include general highway surveillance, electronic toll collection verification, traffic responsive timing, wide area detection, and inspection checkpoints. For additional information contact Gerard Amato at 410/381-5000. gamato@cohu.com

continued



Control Technologies of Central Florida (Mid-Atlantic)

Booth #18

Control Technologies has been active in the traffic control arena for over 30 years. They have manufactured over 25,000 traffic control enclosures throughout the U.S. and distribute (Traficon) video pedestrian detection, (Spot Devices) beacon safety systems, (Campbell) ADA compliant push buttons, (TrafficCast) travel time systems, (FLIR) thermal camera technology, (Sensata) battery backup systems & (McCain) traffic signal controllers.
www.cttraffic.com

DAKTRONICS
 Scoreboards. Displays. Video. Sound.

Daktronics

Booth #5

A world-wide reputation for quality and reliability, an extensive line of LED DMS products and 23 years of transportation industry experience give Daktronics its strong lead in the ITS display market. Daktronics has helped hundreds of agencies show useful instructions, toll rates, travel times and road status information for millions of motorists every day. These displays are backed by an expansive network of service technicians, onsite commissioning, spare parts inventory, tiered service

plans, toll-free phone support and on-site training. Daktronics salespeople and engineers work closely with ITS professionals to develop innovative, effective and reliable ITS solutions.



Digital Traffic Systems

Booth #1

Digital Traffic Systems is an infrastructure services company providing specialized installation and maintenance of traffic data and ITS systems utilizing cameras, video encoder and distribution equipment, in-road and non-intrusive traffic sensors, sensor data collection equipment, display systems, traveler information systems and weather monitoring equipment. This timely information is used in diverse transport applications. www.dtsits.com



Econolite

Booth #11

Econolite is a leading provider of traffic management solutions, specializing in Advanced Transportation Management Systems (ATMS) software, and the manufacturing of traffic controllers, cabinets and signals. Econolite is committed to employing advanced technologies that ease congestion,

reduce travel times, enhance transit operations, provide safer mobility, and improve the overall driving experience.

ELITE

A Better Solution. Every Day.

Elite Contracting

Booth #4

Elite Contracting Group is a full-service technology contractor specializing in security, transportation and technology solutions including construction, installation and maintenance for critical infrastructure. Our years of experience and wide-ranging expertise set us apart as your best resource for solving complex problems safely and on time.

FLIR

FLIR Commercial Systems

Booth #7

FLIR's Thermal Traffic Detection and Monitoring Cameras make clear, high contrast images from heat not light, so they're impervious to the entire common imaging challenges that plague traffic monitoring and control systems that use visible light imaging technologies. This makes thermal cameras immune to direct sunlight (even at sunrise and sunset!), nighttime headlight glare, reflections off wet surfaces, smoke, dust, and light fog. In short, virtually any imaging challenge you can imagine can be overcome

with Thermal Traffic Detection and Monitoring Cameras. Having pioneered most of the known uses for thermal imaging technology for nearly 50 years, FLIR is the largest commercial manufacturer of thermal imagers and imaging solutions in the world.

Image Sensing Systems

Booth #15



IMAGO

Booth #14

IMAGO is a worldwide leader Dynamic Message Sign (DMS) manufacturer with its North America headquarters in St. Paul, MN. IMAGO has more experience in LED displays for traffic applications than any other company and has been deploying Dynamic Message Signs (DMS) for more than 25 years exceeding more than 10,000 signs in over 20 countries. Formerly known as ADDCO, IMAGO North America continues to design, manufacture, assemble, test, sell and service the products it is well known for. IMAGO's transportation product portfolio ranges from the modular environmentally sealed BRICK® to walk-in, and full color signs.

continued



Iteris

Booth #2

Iteris is a leader in the traffic management market delivering total solutions for public and private sector clients in key markets worldwide. We develop and apply advanced technologies to reduce traffic congestion and improve the safety of our surface transportation system. Iteris combines expertise in hardware and software engineering, image processing, and traffic management to develop systems that reduce travel time, reduce congestion, enhance transit operations, provide safer mobility, and improve the overall quality of life. By applying advanced engineering, best industry practices, experience and imagination, Iteris develops end-to-end solutions that solve traffic problems today and allow for future growth and flexibility.



Open Roads Consulting

Booth #19

Open Roads Consulting is a leading provider of innovative Intelligent Transportation Systems and Critical Asset Protection Solutions to Federal, State, and Local Government clients. Open Roads is proud to celebrate over a decade of continued partnership

in Transportation Technology with the Virginia Department of Transportation. Open Roads has offices in Chesapeake, VA, Northern Virginia and Texas, and has mission-critical systems deployed in over 30 operations centers across the United States and in Guam.

www.openroadsconsulting.com



RGA, LLC

Booth #10

RGA, LLC was founded in 1977 and is a growing and diversified company serving the intelligent transportation systems, transportation engineering, and transportation control equipment markets on a regional basis in Virginia, North Carolina, Maryland, West Virginia, and Washington, D.C. As a cabinet fabricator and representative for many of the most well respected manufacturers of transportation control, video, solar, and communications equipment, RGA provides equipment and solutions from the individual traffic signal and intersection controls to fully integrated advanced transportation management systems.



RuggedCom

Booth #17

RuggedCom, Inc. is a leading provider of rugged communications networking solutions designed for mission-critical applications in harsh environments. RuggedCom's technology solutions include Ethernet switches including VDSL, network routers, wireless devices (WiMAX, Wi-Fi, cellular), serial servers, media converters, software and professional services. RuggedCom's products are designed for use in harsh environments such as those found in intelligent transportation systems (ITS), Traffic Signal systems, electrical power substations and "Smart Grids", industrial process control and military applications.



SES America

Booth #8

SES America is a leader in the ITS industry and is recognized as a pioneer for the design, manufacturing, installation, and maintenance of Dynamic Message Signs, Lane Control Signs, Blank-Out Signs, and DMS Retrofit Kits. SES America continues to exceed customer expectations by adhering to three core principles:

Provide First Class Customer Service, Provide Quality Products, and Provide Continuous Innovation. SES America's products feature state-of-the art technology and are engineered to meet the highest industry standards. SES America's products are also known for their durability, longevity, reliability, and ease of maintenance. SES America focuses exclusively on the ITS industry and are continually finding innovative solutions to help solve the critical problems faced by state, county, and city departments of transportation across the United States.



TES, Inc.

Booth #6

Transportation Equipment & Services Inc., (TES), is a local distributor of products designed to make transportation systems safer, cost effective and reliable. With over 20 years of Intelligent Transportation Systems experience, TES is dedicated to providing their customers with the finest quality products and the highest level of customer service. We strive to be the leader in offering innovative solutions to transportation and highway industry needs.

continued

TRANSCORE

TransCore

Booth #16

TransCore is dedicated to driving inefficiencies out of surface transportation through innovation, utilizing our expertise in systems integration, design consulting, operations, maintenance, manufacturing, enabling RFID and satellite communications technology, and our extensive Web-based logistics and transportation management systems. TransCore is the largest global manufacturer of transportation-based RFID technology with more than 46 million tags and 67,000 readers deployed worldwide in various applications such as electronic toll collection, traffic management, rail, truck, container, barge and intermodal tracking and monitoring, homeland security border control, airport ground transportation, parking, and secure vehicle access control.

TRANSDYN

Transdyn

Booth #3

Transdyn is a leading US based provider of Intelligent Transportation (ITS), Advanced Traffic Management (ATMS), information management, and security/surveillance systems. Agencies using our solutions experience tangible benefits including enhanced operational efficiencies, increased public safety, improved congestion, and more effectively disseminated information throughout the agency, to first responders or the general public, thereby lowering overall life cycle costs.



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