

Monday, February 12:

Session 1A: Smart Transportation

Moderator: Amanda Good

Amanda Good has 14 years of experience, including almost 10 years with Kimley-Horn, focusing on systems engineering, state/regional ITS planning, and operations support. She assists clients on defining their needs then identifying technology and operational solutions to meet those needs. Amanda serves as a technical resource, facilitator, and support within several subject areas, including active traffic management, integrated corridor management, advanced transportation management system software, connect and autonomous vehicles, and Transportation Systems Management and Operations projects. As a result, she has provided a variety of deliverables, including conceptual and high-level design documents for identified corridors, concept of operations/systems engineering documentation, strategies for operational issues, and software requirement development.

Pete Costello

Pete Costello is an Associate Vice President at Iteris based in Orlando, Florida. He is an internationally recognized advanced traveler information services expert and has many publications on ATIS and traffic data articles in ITS International, Thinking Highways and other trade magazines. With almost 20 years of experience across the ITS industry developing programs, managing technical projects and growing world-class businesses, Pete brings knowledge of deploying ITS, traffic data and traveler information systems.

Kyle Clark-Sutton

Kyle Clark-Sutton is a research economist in RTI's Center for Environmental, Technology, and Energy Economics. His current project work at RTI includes evaluating the impact of electric vehicle adoption and charging infrastructure on the electricity grid, modeling technological change in marginal abatement cost curves for non-CO₂ greenhouse gases, assessing the economic impact of precision timing and GPS on the U.S. economy, and evaluating the energy and environmental impacts of energy efficiency and renewable energy investments at a fleet of data centers around the United States.

Before joining RTI, Mr. Clark-Sutton worked as a graduate research and teaching assistant at Indiana University's School of Public and Environmental Affairs (SPEA), where he conducted research in the areas of energy economics, energy efficiency analysis, innovation adoption, and electric vehicle policy. At SPEA, Mr. Clark-Sutton participated in the electric vehicle (EV) research group, which conducts economic analysis of the EV market, research on barriers to EV adoption, and EV policy. He is the lead author of an assessment of state and municipal electric vehicle policy and lead author of a report assessing the barriers to increased adoption of combined heat and power technology in the state of Indiana. Mr. Clark-Sutton has a BA in Political Science from UNC-Chapel Hill, MSES and MPA from the School of Public and Environmental Affairs at Indiana University, Bloomington.

Dr. Arcot Rajasekar

Arcot Rajasekar is a Professor and Director of Research at the School of Library and Information Sciences at the University of North Carolina at Chapel Hill and a Chief Scientist at the Renaissance Computing Institute (RENCI) at the University of North Carolina at Chapel Hill. He has been involved in research and development of data grid middleware systems for over two decades and is a lead originator behind the concepts in the Storage Resource Broker (SRB) and the integrated Rule Oriented Data Systems (iRODS), two premier data grid middleware developed by the Data Intensive Cyber Environments Group. A leading proponent of policy-oriented large-scale data management, Rajasekar has several research projects funded by the National Science Foundation,



the National Archives, National Institute of Health and other federal agencies. Rajasekar has a PhD in Computer Science from the University of Maryland at College Park and has more than 200 publications in the areas of data grids, digital library, persistent archives, artificial intelligence and smart cities. His latest projects include the Datanet Federation Consortium, the Data Bridge and the Smart and Connected Communities Initiative.

Matthew Gibb

Matthew Gibb is the founder and CEO of Blue Rhubarb a strategic consulting firm specializing in collaborative ITS Deployment. He also serves as interim CEO of The NEXT Education an elite team of strategists and educators implementing the country's first SAE based certification program in Connected ITS for governments, transportation agencies and educators.

Mr. Gibb recently left his position as Deputy Oakland County Executive Which he held from 2011. He oversaw all aspects of Economic Development and Community Affairs for the County including planning, business attraction and expansion, community development, home assistance programming, workforce, and a variety of related issues and services. Significant to his role is the direct leadership of several County Executive initiatives including. Medical Main Street, Emerging Sectors, One Stop Ready, Connected Car Task Force, and other programs integral to the economic success of the County. Mr. Gibb holds Board positions at entities such as Automation Alley, Detroit China Business Association, and the Connected Vehicle Trade Association.

Mr. Gibb is a regular speaker on government's role in connected mobility and its infrastructure, including technical presentations in China, Spain and throughout the United States. His co-Leadership of the County's CAV Task Force has created a "Business Plan for Deployment". He obtained a Bachelor of Arts from Alma College in 1990 and Juris Doctorate from University of Kentucky in 1993



Session 1B: Safety

Moderator: Frank Gross

Dr. Scott Himes, PhD, P.E.

Dr. Himes is Highway Safety Engineer with VHB in Raleigh, North Carolina. He earned his Ph.D., M.S., and B.S. in Civil Engineering from the Pennsylvania State University and is a registered Professional Engineer in North Carolina. Dr. Himes is an expert in implementing the Highway Safety Manual methodologies for conducting safety effectiveness evaluations and serves as a critical reviewer of crash modification factors for the Crash Modification Factor Clearinghouse. In this role, he assesses study quality and assigns star-quality ratings and has assessed the quality of CMFs for many ITS-related countermeasures. Recently, he has authored FHWA reports and Transportation Research Record papers on a Multistate Safety Effectiveness Evaluation of Intersection Conflict Warning Systems as well as the Safety Effectiveness of Red-Light Indicator Lights in Florida. Dr. Himes can be reached at 919.334.5608 or shimes@vhb.com

Tim Martin

Tim Martin is the Regional Systems Manager for the Virginia Department of Transportation's Southwest Region. Tim oversees and coordinate regional planning, installation, operation and maintenance of critical systems and communications infrastructure for the Region and provides oversight for traffic signal communications and central system management; tunnel systems devices and SCADA Controls, CSC Systems where applicable. He has a BS in Civil Engineering Technology from Old Dominion University. He has served in various roles in construction and operations with VDOT for 25 years. The I-77 Variable Speed Limit project is one of several that he has worked on to make the fog prone stretch of I-77 that joins North Carolina safer.

Mike McPherson PE, PTOE

Mike McPherson is the Regional Traffic Signal and Freeway Operations Engineer for the Virginia Department of Transportation's Southwest Region. Among his responsibilities is the overseeing of the Traffic Engineering aspects of the I-77 Variable Speed Limit Project. He received a B.S. degree in Engineering Physics from West Virginia Wesleyan College and a B.S. in Civil Engineering from North Carolina State University. He spent 16 years as a consultant working in Traffic Engineering and Roadway Design. He has been with the Virginia Department of Transportation since 2006, the last 9 years with Southwest Regional Operations. He received his Professional Engineer license in Virginia and is a Professional Traffic Operations Engineer.

Carrie Simpson, P.E.

Carrie graduated with a B.S. from Valparaiso University and a M.S.E. in Civil Engineering from North Carolina State University. She is a registered Professional Engineer in NC and has worked within the NCDOT Traffic Safety Unit for over 14 years. She was recently promoted to NCDOT Safety Evaluation Engineer. While working for the Department, Carrie has authored multiple studies published in the Transportation Research Record and the Journal of Transportation Safety and Security on topics such as flashing yellow arrow, dynamic all-red extension at traffic signals, vehicle entering when flashing signs, all-way stops, school zone flashers, and "Your Speed" changeable message signs in school zones. Carrie can be reached at 919-814-4959 or clsimpson@ncdot.gov

Andy Lelewski, P.E.

Andy Lelewski is the North Carolina Turnpike Authority Director of Toll Operations. He is responsible for the roadside technology, back office toll collection system, and customer services for the North Carolina Turnpike Authority's toll facilities.



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Since the opening of Triangle Expressway in 2011, Andy has been responsible for the development of the toll collection system; and is now managing the implementation of NCTA's toll collection program for the Monroe Expressway and I-77 Express Lanes, both on schedule to open in 2018. He is also leading the effort on the Authority's wrong way driver detection program, which is currently operating as a pilot program on the Triangle Expressway, and will be expanded to the entire Monroe Expressway in the coming months.

Andy is a graduate of the University of Pittsburgh School of Engineering and is a registered professional engineer in North Carolina.



Session 2A: University Research

Moderator: Dr. Michael Clamann, Ph.D.

Michael Clamann is a senior research scientist at Duke's Humans and Autonomy Lab (HAL). He is also an Associate Director at the Collaborative Sciences Center for Road Safety (CSCRS) and is the lead editor of Robotics and AI for the Duke Initiative for Science & Society Policy Tracking Program. He received a Ph.D. and M.I.E in Industrial and Systems Engineering and a M.S in Experimental Psychology at North Carolina State University.

Dr. Lori Benneer, Ph.D.

Lori Benneer is the Juli Plant Grainger Associate Professor Energy Economics and Policy at the Nicholas School of the Environment at Duke University and the Associate Director for Educational Programs at the Duke University Energy Initiative. She received her Ph.D. in Public Policy from Harvard University (2004) and also earned an MA in Economics from Yale University (1996) and an AB in Economics and Environmental Studies from Occidental College (1995). Her research focuses on evaluating the effectiveness of flexible environmental policies including information disclosure regulations, management-based regulations, liability regimes, and demand-side management programs. She has applied these evaluations across a range of environmental domains including energy, toxics, and drinking water. She is currently working on developing best practices for adaptive regulation of emerging technologies in the energy domain, with a focus on autonomous vehicles.

Dr. Younho Seong, Ph.D.

Dr. Younho Seong is a professor at the Department of Industrial & Systems Engineering at NC A&T University. Dr. Seong is performing research on human machine interaction, decision making, and neuroergonomics.

Dr. Wei Fan, Ph.D.

Dr. Wei (David) Fan currently serves as an associate professor in the Department of Civil and Environmental Engineering (CEE) at The University of North Carolina at Charlotte (UNCC). He is the Director of the USDOT University Transportation Center for Advanced Multimodal Mobility Solutions and Education housed directly under the CEE Department at UNCC. Dr. Fan holds a Ph.D. (May 2004) in Civil Engineering – Transportation from the University of Texas at Austin (Hook 'em Horns!). He was a Senior Analytical Optimization Software Developer for the R&D Department at SAS Institute Inc. located in Cary, North Carolina from June 2004 – August 2006.

Dr. Fan's primary research interests include operations research, Big data analytics for transportation; Connected and autonomous vehicles; Multimodal transportation and shared mobility; Traffic system operation and control; and Transportation system analysis and network modeling. Dr. Fan serves as an associate editor of IEEE Transactions – Intelligent Transportation Systems, an associate editor of ASCE Journal of Transportation Engineering, Part A: Systems, and an associate editor of International Journal of Transportation Science and Technology while also serving as a member of three other transportation journal editorial boards. Dr. Fan also serves as a member on the NSF, NCHRP and TCRP review panels, and three TRB committees. He was selected by the students as the Best Civil Engineering Professor of the Year 2007 and was a proud ASCE Excellence in Civil Engineering Education (ExCEED) Teaching Fellow in 2007.

Dr. Fan has been and is involved in many sponsored projects (over 10 million dollars in funding), having been principal or co-principal investigator on many research studies for the USDOT, FHWA, NCHRP, SHRP2 Education Connection, TxDOT and NCDOT. He had published more than 100 journal articles, proceeding papers and technical reports. He is a registered professional engineer in Texas.



Session 2B: ITS Yesterday, Today, and Tomorrow

Moderator: Anita Vandervalk-Ostrander, P.E., PMP

Ms. Anita Vandervalk-Ostrander is a registered Professional Engineer in several states and is also a registered Project Management Professional (PMP). She is a principal and Director of Florida Operations for Cambridge Systematics, Inc. Ms. Vandervalk has 25 years of experience in transportation engineering and planning with extensive knowledge of national, statewide, and metropolitan transportation data, operations, ITS and planning programs.

She was recently Chair of the TRB Statewide Data and Information Systems Committee and is also Past President of ITS Florida. She currently serves as Vice President of the Florida Capital Chapter of WTS. Ms. Vandervalk has a Bachelor of Science in Civil Engineering from Queen's University in Ontario

Bob McQueen

Bob McQueen is CEO of Bob McQueen and Associates based in Orlando, Florida. He is a creative problem solver with superb verbal and written communication skills, combined with proven technical, business planning, business development and marketing experience.

Mr. McQueen is highly experienced in advanced transportation technology-related business building, opportunity analysis and relationship building.

He specializes in assisting public agencies to understand the effects of ITS harnessing the full potential of recent advances in data science, including data lake creation and the application of discovery techniques to data. Current assignments focus on Smart Cities and transportation data analytics to explain the effects of ITS and the effectiveness of transportation investments.

Bob has been involved in the US intelligent transportation systems program since the late 1980s and has conducted consulting assignments in the US, Europe, Middle East and Asia-Pacific. He is a former Chair of ITS Florida and current Chair of the Emerging Technologies Forum for ITS America. Bob can be contacted by telephone on 407-491-2842, or at bob@bobmcqueenandassociates.com

Meredith McDiarmid, P.E.

Meredith holds a BSCE from North Carolina State University, is a registered PE in North Carolina and a Certified Public Manager. She has been with NCDOT for 24 years, most of which have been in the traffic operations field. Her Traffic Operations experience began in work zone traffic control in 1995 and continued into Traffic Systems Operations. For the past 9 years, she has been the State Traffic Systems Operations Engineer where she manages the Statewide ITS Operations, Incident Management, and Signal Systems Timing programs.

Dr. Randy Butler, D.B.A. PMP

Randy recently joined CDM Smith as a Technical Strategy Leader supporting the deployment of transportation related Emerging Technologies. Dr. Butler's career spans over 46 years in both the public and private sectors managing transportation operations, customer service relations, business processes reengineering, information systems, and project management. Previous positions include Program Manager Connected Vehicle Program US Department of Transportation Federal Highway Administration, Vice President Computer Management Consultants, and Assistant Vice President at Union Pacific Railroad.

Randy's professional focus is leading the planning and development of projects that use technology to provide benefits to both the public and private sectors. Randy is currently the project manager of the Columbus Smart Cities Truck Platooning Project. He is also working as an advisor for the Port of Los Angeles on the implementation of the Freight Advanced Traveler



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Information Systems (FRATIS). One of the most interesting jobs Randy has worked over his career has been a project manager for the construction of a 95-square kilometer logistics park in South Al Batinah, Oman located approximately 130 km from Muscat, Oman.

Randy's educational background includes a BS in Engineering Technology, MBA, MA Transportation Policy and Operations, MS Information Systems, and Doctor of Business Administration. Randy is a member of the Affiliate Faculty at Shepherd University and an Adjunct Professor at Southern New Hampshire University. Randy and his wife Ann reside in the beautiful Shenandoah Valley about 75 miles outside of Washington, DC.



Session 3A: Data

Moderator: Nikola Ivanov

Nikola Ivanov serves as the Deputy Director at the Center for Advanced Transportation Technology Laboratory (CATT Lab) where he manages operations and technical development, and oversees every aspect of software implementation from conception to deployment.

Nikola is an active member of the National Academies of Science Transportation Research Board where he chairs a subcommittee dealing with Data for Transportation Operations. At the University, of Maryland CATT Lab, Nikola is the primary data architect for the Regional Integrated Transportation Information System utilized by hundreds of transportations, safety, security, emergency management, and intelligence agencies across the United States.

Nikola received his Bachelor of Science degree in Computer Engineering, Master's degree in Systems Engineering, and Post-Baccalaureate Certificate in Engineering Management from the University of Maryland.

Anita Vandervalk-Ostrander P.E., PMP

Ms. Anita Vandervalk-Ostrander is a registered Professional Engineer in several states and is also a registered Project Management Professional (PMP). She is a principal and Director of Florida Operations for Cambridge Systematics, Inc. Ms. Vandervalk has 25 years of experience in transportation engineering and planning with extensive knowledge of national, statewide, and metropolitan transportation data, operations, ITS and planning programs.

She was recently Chair of the TRB Statewide Data and Information Systems Committee and is also Past President of ITS Florida. She currently serves as Vice President of the Florida Capital Chapter of WTS. Ms. Vandervalk has a Bachelor of Science in Civil Engineering from Queen's University in Ontario

Dan Kasun

Dan Kasun is Sr. Manager for Amazon Web Services Worldwide Public Sector Partners. His organization is responsible for building and supporting the AWS partner channel and ISV ecosystem for government, education, and non-profit customers in the United States. This includes the establishment of programs for, and direct engagement with, system integrators, solution providers, independent software vendors and value added resellers. The depth and breadth of this partner ecosystem is critical to enabling government and education customers to leverage AWS cloud solutions successfully.

Mr. Kasun is a technology industry veteran with over twenty years of experience working with organizations of all sizes, from small companies to large enterprises, in a variety of industries (Financial Services, Healthcare, Government, and Education) - and joined Amazon Web Services in September of 2014. Prior to joining Amazon, he was with Microsoft Corporation for over 18 years, and he holds a Bachelor of Science degree in Computer Engineering from Lehigh University.

Don Dickinson

Don Dickinson is a graduate of NC State University (BSEE) and has more than three decades of sales, marketing and product application experience in industrial automation and control systems, involving a wide range of products and technologies in various industry segments. He is the Senior Business Development Manager for Water Management, Phoenix Contact USA. Don is a past chair of the NC AWWA-WEA (American Water Works Association – Water Environmental Association) Automation Committee and the current chair of the Automation Committee's Security subcommittee. He served on the AWWA Project Advisory Committee for development of Process



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Control System Security Guidance for the Water Sector. Don is a member of the International Society of Automation (ISA) and the Water Environmental Federation (WEF) Intelligent Water Technology Committee. Don is currently serving as the General Symposium Chair for the ISA Water/Wastewater & Automatic Controls (WWAC) Symposium that will be held in Washington DC this August.



Session 3B: ITS Technology

Moderator: Tony Tagliaferi

Tony Tagliaferri is the Metrolina Regional ITS Engineer for NCDOT, and manages the Metrolina Regional Traffic Management Center in Charlotte. He has been at NCDOT for one year and has 12 years of varied traffic and ITS engineering experience in both the public and private sectors. Tony has his Bachelors in Civil Engineering from Duke and his Masters from NC State, and is a registered Professional Engineer in North Carolina.

Charles Abel, P.E., PTOE

Charles received his Bachelors and Master's Degrees from Georgia Tech. He is a registered Professional Engineer in North Carolina and is also PTOE certified. Charles has worked for the Charlotte Department of Transportation for 28 years. He has worked in traffic safety, signal design, signal implementation, transportation project design, transportation planning and for the last 16 years has worked in traffic signal systems. Charles is currently the Transportation Systems Manager for the Charlotte Department of Transportation.

Jon Ringler

Mr. Ringler is a Vice President with Aegis ITS with experience spanning over 30 years serving state and local market customers. He has developed solutions for agencies across the North America while serving in numerous roles including engineering, planning, development, construction, operations, integration and deployment. Additionally, he has successfully translated his technical skills into leadership positions having spent the majority of the latter half of his career in all aspects of business operations, management, and business development.

After spending a tour of duty with the United States Air Force, Mr. Ringler joined the Transportation Industry as an Assistant Traffic Engineer in Anaheim, California where he designed one of the first urbanized traffic signal control systems employing surveillance systems and dynamic message signs in a non-freeway environment. Since that time, he has held several executive management roles in the private sector.

He is a leader in the delivery of innovative transportation solutions and understands the importance our transportation system has on our nation's economic vitality and security. He is passionate that the successful legacy of transportation development over the last 50 years is effectively brought forward for future generations.

Steve Kite, P.E.

Steve Kite is currently the State Work Zone Traffic Control Engineer for NCDOT. He's been with the Department for 25 years and has served in various design and supervisory roles within the Work Zone Traffic Control Section. He manages the Eastern Regional project group which oversees the development of the Traffic Management Plans in support of the TIP construction projects. He's been the State Work Zone Traffic Control Engineer since October of 2012 which also manages the statewide training and certification programs and services for the Work Zone Traffic Control Section. Steve has a BSCE degree from NC State University, is a registered Professional Engineer and a Certified Public Manager.

Jeffrey Adler, P.E.

Jeff has over 25 years of experience in Intelligent Transportation Systems specializing in emerging technology applications to support transportation systems management and operations. He joined Kapsch TrafficCom North America in February 2017 where he leads the ITS and Solution Consulting practice. His team provides technical solutions and consulting services to state and federal agencies



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across North America focusing on connected vehicles, integrated corridor management, decision support systems, and truck parking.

Jeff is a Registered Professional Engineer in six states and is actively involved in several TRB committees. He received his Doctoral Degree from the University of California Irvine and his Bachelors from Carnegie Mellon University. Jeff and his family reside in Silver Spring, Maryland.



Tuesday February 13:

Session 1A: Signal System Arterial Operations and Corridor Management

Moderator: Eddie Curtis, P.E.

See below

Dan Farley

Dan Farley is the Chief of the Traffic Operations Deployment and Maintenance Section. He has worked for PennDOT for 13 years, working 3 years in a regional office (District 4) and 10 years in Central Office. Dan has held various positions within the Department, but in 2009 he became the Traffic Signal Manager in Central Office and has expanded the program. Dan has been involved with development of Traffic Operations performance metrics since 2011 and helps to support the Departments overall efforts to get appropriate actionable metrics.

Dan's Education information:

- *2003 graduate of University of Pittsburgh with a bachelor's of science degree in Civil Engineering with a specialization in Transportation Engineering.*
- *2011 Graduate of the FHWA/I-95 Corridor Coalition Operations Academy for Senior Managers*
- *Previously had IMSA Traffic Signal Level 1 and 2 Certification*
- *"Outcome Assessment using Connected Vehicle Data to Justify Signal Investments to Decision Makers" - Jijo Mathew^{1*}, Drake Krohn¹, Howell Li¹, Chris Day¹, Ashwin Patel², Dan Farley² and Darcy Bullock¹ 1. Purdue University, USA, 2. Pennsylvania Department of Transportation, USA*

Contact information: Daniel P. Farley | Chief, Traffic Operations Deployment and Maintenance Section; Pennsylvania Department of Transportation/ Bureau of Maintenance and Operations | Transportation Operations Division / 400 North Street | Harrisburg, PA 17120-0064; Phone: 717.783.0333; Email: dfarley@pa.gov

Bastian Schroeder, P.E., PhD

Dr. Bastian Schroeder is a principal engineer with KAI and oversees the company's Charlotte and Wilmington offices. He specializes in traffic analysis and modeling, data analytics and visualization, and multimodal traffic operations on surface streets. He routinely applies multiresolution modeling solutions to complex transportation problems, and serves as a company-wide resource for QA/QC and senior advice for operations projects. He is a member of the TRB Committee on Highway Capacity and Quality of Service, the TRB committee on roundabouts, the TRB Simulation Systems Manual Task Force, and he chairs the Simulation and Capacity Model Users Group (SimCap) for NCSITE.

Eddie Curtis

Eddie Curtis, P.E. is a Traffic Management and Operations Specialist with the FHWA Office of Operations and Resource Center Operations Technical Service Team. He manages the Arterial Management Program which is responsible for advancing objectives and performance based approaches to traffic signal management and operations. He has 20 years of experience in traffic signal operations and held positions with the City of Los Angeles and PB Farradyne before joining FHWA in 2006. He holds a BSCE from California State University Los Angeles and MSCE from the Georgia Institute of Technology. He is a registered professional engineer in California and is a



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member of the TRB Traffic Signal Systems. He is currently leading FHWA's Automated Traffic Signal Performance Measures Initiative.



Session 1B: Incident Management & Operations

Moderator: Meredith McDiarmid, P.E.

Meredith holds a BSCE from North Carolina State University, is a registered PE in North Carolina and a Certified Public Manager. She has been with NCDOT for 24 years, most of which have been in the traffic operations field. Her Traffic Operations experience began in work zone traffic control in 1995 and continued into Traffic Systems Operations. For the past 9 years, she has been the State Traffic Systems Operations Engineer where she manages the Statewide ITS Operations, Incident Management, and Signal Systems Timing programs.

Andrew Heath, P.E.

Andrew Heath has worked for the Georgia Department of Transportation for over 9 years. He began working at DOT in 2008 in the Office of Planning where he oversaw statewide and regional planning efforts specifically focusing in the Metro Atlanta region. In 2013, he was selected as the Executive Assistant to the Chief Engineer where he served as the immediate representative of the Chief Engineer and other executive staff. In 2015, he was selected as the State Traffic Engineer. In that role, Andrew functions as the administrator for the office of traffic operations which oversees multiple department functions including traffic management, safety, operations, signals, and incident management. He graduated from Auburn University with a Bachelor's and Master's degree in Civil Engineering and is a licensed professional engineer in the state of Georgia.

Rob Perry, P.E.

Mr. Perry has a B.S. in Civil Engineering from the Citadel and is a professionally licensed engineer in the state of South Carolina. He started his professional career with the South Carolina Department of Transportation (SCDOT) in 1999 with their lowcountry bridge inspection team that is responsible for in-service inspections of roughly 1,000 bridges across six counties. Since that time, Mr. Perry has served as a field engineer during the construction of the Ravenel Cable-Stay Bridge that spans the Cooper River in Charleston. In 2006, he transitioned to SCDOT's preconstruction division and served as a program manager for the upstate region. Mr. Perry has also served as the Director of Transportation for Richland County Government which entailed starting the County's \$1.07 billion local option sales tax transportation program. In June of 2017, he returned to SCDOT to fill the role of State Traffic Management Engineer.

Kelly Wells, P.E.

Kelly Wells is the NCDOT Mobility Program Manager. She has been in that position for the last 6 years and is responsible for Traveler Information, including drivenc.gov (formerly TIMS) and 511, and Mobility Metrics including probe data and MAP-21 System Performance Measures. She has thoroughly enjoyed her 18 years at NCDOT, mostly in TSM&O, and 8 years with FHWA before that. She is a registered Professional Engineer in NC. Kelly graduated from the George Washington University. kwells@ncdot.gov / 919-825-2615



Session 2A: Signal System Technology – Planning for the Future

Moderator: Zachery Clark

Zachary Clark is a Signal System Timing Engineer with the NCDOT Central Office. He has ten years of professional experience as a traffic engineer and has been involved in a variety of signal systems and ITS projects in the U.S., Canada, and Australia. Mr. Clark holds Bachelor's degrees in Physics from Indiana University and Civil Engineering from Purdue University. He graduated in 2007 from North Carolina State University with a Master's degree in Civil Engineering. ztclark@ncdot.gov

Mohd Aslami

Mohd Aslami is the NCDOT State ITS & Signals Management Engineer. Mohd started his career with NC DOT in 1993 and has served in different capacities in Signing & Delineation and ITS & Signals Units. Mohd and his team deliver projects that build up and built out state's ITS and Signals system infrastructure, and provide field support to all 14 highway divisions. Mohd has a B.S. degree in Electrical Engineering from Worcester Polytechnic Institute. He is a registered Professional Engineer and a Certified Public Manager.

Erin Skimson

Erin Skimson is the Director of ITS Product Marketing at Miovision. She is a passionate technology advocate having launched the first digital endoscopic surgical system in Canada before turning to the transportation field. Traffic signals are the ultimate smart city tool, and Erin has worked with cities, states and provinces across North America to implement smarter, data-driven traffic signal solutions and performance measures. Erin holds an MBA from McMaster University in Hamilton, Ontario, Canada. eskimson@miovision.com; [226-979-6039](tel:226-979-6039) (mobile)

Howell Li, PhD

Howell Li is the Senior Software Engineer at Purdue University's Joint Transportation Research Program. He holds a master's degree from Purdue University's College of Engineering and a bachelor's degree from New York University in Computer Science. Li's work and research is in the area of traffic signal performance measures and connected vehicle technology, and has published articles in Transportation Research Record (TRR), IEEE's Conference on Intelligent Transportation Systems, and co-authored on reports from the Traffic Signal Systems Operations and Management Pooled Fund Study, TPF-5(258). In 2017, Li also led a project with Pennsylvania DOT on the implementation of probe data performance measures on signalized arterials.howell-li@purdue.edu; (646-812-8196 mobile)

Daniel Sagan

Daniel Sagan has over 9 years of industry specific experience, currently specializing in regional sales and support with Control Technologies. His current projects include working with NCDOT on the state's first hosted ramp metering system. In Raleigh, I-540 is running local traffic-responsive ramp metering and showing positive results. They expect to launch full traffic response in the corridor in the next few months. In South Carolina, Daniel has partnered with Beaufort County in the install of central and local software, as well as ATC controllers and plan to go traffic-adaptive this spring.

He is a board member of VASITE, member of ITSVA, ITE, ITS-Carolinas, NCSITE and is certified through the Project Management Institute. In his free time, Daniel enjoys cheering on his alma mater, Clemson University, with his wife and their one and two-year-old sons in their home in Virginia Beach, Virginia.



Session 2B: ITS: Service to the Public

Moderator: Tiger Harris

Mr. Harris serves as an Associate Vice President of Iteris' Transportation Systems division and has been with the firm since 2014. He has over 20 years of extensive, hands-on program management experience deploying technology solutions to support statewide transportation operations, and more specifically ITS. He has a strong reputation in the industry as a leader in Incident Management, ATMS, and Traveler Information systems. In addition to being a founding member of ITS Carolinas, and the current Vice President, he has worked with many other State Chapters in similar roles. He also serves as a key member of the newly created ITS America Board Task Force on State Chapters.

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Mary Farrell

Mary Farrell is president of Information Logistics, a technology company located in New Jersey. She has been involved in technology for more years than she is willing to admit. From her first job doing research work at Bell Laboratories to her current company, Mary has worked with systems design and software development for a variety of industries. Her company's innovative ideas and the technologies that her team has developed have won many local and international awards. She is here today with her son John who's education and background is in public safety. John is currently completing his PhD, and brings the safety perspective to each project that the company develops.

mfarrell@ilogcorp.com

Brendan Kaplan

Brendan brings an interdisciplinary background focusing on technology, operations, and government relations to Advantage Engineering. At Advantage, Brendan currently consults for the Port Authority's Agency Operations Center, where he works integrating Google, Apple, and Waze data with existing Port Authority systems to increase visibility into Port Authority operational conditions, deliver just-in-time insights to drivers, collect longitudinal/ spatial information for traffic engineers, and support the PANYNJ \$32 billion capital plan. Brendan crafted his own line of study at Rutgers University, where he studied similarity between brain development and city development using complex adaptive systems.

Terri Johnson, P.E.

Terri Johnson, Manager of Government Solutions, leads the public-sector projects for HERE Technologies. She has been with HERE for over 15 years and has over 30 years of experience in the transportation industry. She has successfully implemented HERE traffic services with FHWA, DOTs, cities and MPOs to provide agencies with data for planning, operations, and performance management. Terri is a Professional Engineer and received a Bachelor of Science in Civil and Environmental Engineering from the University of Wisconsin. Most importantly she is the mother of twin 18-year-old girls! terri.johnson@here.com

