**2022 Southeastern ITS Summit**

**PDH Summary**

**Monday, November 7, 2022**

8:30 – 10:00 am **OPENING SESSION**:

 Russell McMurry, Commissioner, Georgia DOT; Laura Chace, CEO, ITS America; & ITS Chapter Presidents

 (1.5 PDH)

11:00am – 12:00 pm **KEYNOTE SPEAKERS: Scott Marler****, Director of NOCoE; Monali Shah, Google** (1.0 PDH)

1:30 p.m. – 3:00 pm **TECHNICAL SESSION 1: “1st and 10”** (1.5 PDH)

**Track 1: Efficiency**

* *Charlotte ITS Master Plan – Planning for Rapidly Changing Technology*

Ashley Boenisch, City of Charlotte, NC & Cole Dagerhardt, P.E., Exult Engineering

* *TSMO Planning: Creating a Plan for Impact*Natalie Smusz-Mengelkoch, P.E., Kimley-Horn & Maria Roell, Atlanta Regional Commission
* *Concept of Operations for the Georgia Department of Transportation (GDOT) Future Transportation Management Center (TMC)*

Dolores Uttero, Georgia DOT & Roberto Perez, Atkins

* *TSM&O Academy*Dr. Bob Edelstein, P.E., AECOM

**Track 2: Flexibility**

* *The New Look of GDOT’s Qualified Products List*Alexander Estrada, P.E., Georgia DOT & Arnaud Huguet, P.E., AECOM
* *The Age of Social Media and the Engagement of the TMC*

 Ron Battle, Georgia DOT & Anslee Schroeder, AECOM

* *FDOT Implements New Availability-Based Contract to Improve Maintenance*

Florida DOT D6 TSMO Office FDOT – Don Avery, P.E., AECOM

* *North Carolina Partnerships*

 Jennifer Portanova, P.E., CPM & Wayne Taylor, North Carolina DOT

**Track 3: Innovation**

* *Virginia’s Regional Multi-Modal Mobility Program (RM3P)*

Amy T. McElwain, VDOT

* *Video-as-a-sensor Technology Drives Safer Roadways*

Joel White, Bosch Security and Safety Systems

* *Maximizing Traffic Camera Value with Advances in Computer Vision Technology*

Dan Rossiter, SwRI

* *Using Artificial Intelligence in Adaptive Signal Control for Oversaturation*

Kris Milster, NoTraffic

**Track 4: Integration**

* *If You Build It They Will Come –TDOT I-24 MOTION*

 Lee Smith, P.E., Tennessee DOT, Dr. Meredith Cebelak, P.E.,
Gresham Smith

* *Next Generation Integrated Corridor Management*

 Clay Weston, Southwest Research Institute

* *Transportation's Holy Grail: Integrating Transit and Shared Modes through Public Policy*

 Dr. Katherine Kortum, Transportation Research Board

**Track 5: Safety**

* *Pedestrian/Cyclist Detection Technologies for Western Australia*

Dr. Samaneh Khazraeian, Stantec

* *Using machine learning to understand the correlates of spatio-temporal impacts of traffic incidents: A case study of Alabama Freeways*

Dr. Qifan Nie, Zihe Zhang, Dr. Jun Liu, & Dr. Alex Hainen, Univ of Alabama

* *I-75 Rural ITS Deployment in Tennessee: Overcoming Constraints*

Greg Dyer, PE, TDOT & Matt Davis, PE, PTOE, Stantec

**Track 6: Wildcard**

* *Crowdsourced Data and Modern Data Management for Smart Mobility*

Greg Jones, James Coyler, & Ralph Volpe, FHWA

* *Identifying and Quantifying the Causes of Congestion for States and Counties Throughout the Southeast*

Nikola Ivanov, CATT Lab

1:30 p.m. – 3:30 pm **TECHNICAL TOUR #1: Peachtree Corners Curiosity Lab** (2.0 PDH)

3:30 p.m. – 5:00 pm **TECHNICAL SESSION 2: “2nd Down”** (1.5 PDH)

**Track 1: Efficiency**

* *Performance and Operational Metrics for Ramp Meters in Georgia*

 Kaitlyn Stewart, EI Georgia DOT

* *A Day in the Life of ITS Maintenance*

Ben Lempke, PE., & Emily Dwyer, P.E., Georgia DOT

* *Trajectory Based Signal Performance Measures – What are they? And how can they help agencies improve performance and reduce emissions?* Shaun Quayle, P.E.INRIX
* *Utilizing ITS Technology to Decrease Greenhouse Gas Emissions*

 Joshua Manriquez, EI, Stantec

**Track 2: Flexibility**

* *Understanding Origin Destination Travel Patterns Using High Fidelity Probe Data*

 Rick Ayers, CATTLab

* *Post-Game Analysis – The City of Franklin’s First Adaptive Signal Deployment*

 Dr. Meredith Cebelak, P.E., Gresham Smith & Adam Moser, P.E., City of Franklin

* *Western Wake Traffic Signal System Integration Study*

 Cole Dagerhardt, P.E., Exult Engineering, Brandon Watson, NC Capital MPO, David Spencer, P.E., Cary, NC & Matt Carlisle, P.E., NCDOT

**Track 3: Innovation**

* *Comparing Connected Vehicle Data Accuracy to Optical Traffic Sensors: What’s the Real Truth on the Ground?*

 Chris Kadoch & Glynn Dennis, Rekor Systems

* *Smart Mobility Low Hanging Fruit-Autonomous Vehicles (AV) Shuttle Service Deployment*

 Xuewen Le, PE, PTOE, Jacobs

* *VDOT Operations Technology Security and Asset Management Initiative*

*(OTSAAM)*

 Kevin M. Barron & Kyle Tackett, Iteris, Inc.

* *Traveler Information for Trucks*

Kelly E. Wells, P.E. & Courtney Weeter, P.E., NCDOT

**Track 4: Integration**

* *Working Together to Build a Stronger Network*

 Steve Wardle + State Agencies NC, GA, TN, & FL

**Track 5: Safety**

* *Collision Risk Minimization for Connected Vehicles in the Presence of a Wheelchair at an Intersection*

 Dr. Pronab Kumar Biswas, Dr. Sakib Mahmud Khan, & Dr. Mashur Chowdhury, P.E., Clemson University

* *Intelligently Integrating Connected and Autonomous Vehicles*

 Dr. Samaneh Khazraeian & Dan Baxter, Stantec

* *Real-Time Train Detection System: Jacksonville Pilot Test Results*

 Clayton Levins, Smart North Florida & Dr. Garreth Rempel, TRAINFO

* *Fort Valley’s Lidar Train Pre-Emption Technology*Roderick Ware, P.E., Lumin8 Transportation Technologies & David Miranda, P.E., GDOT

**Track 6: Wildcard**

* *Intelligent Transportation Systems Facility Management (ITSFM) System*

 Kenny Shriver, FDOT & David Bremer, IMSA III, Atkins

* *Fiber Optic Mapping and Management*Alaa Shams, P.E., CMS, LADOTD & Julian Bordelon, EI, Gresham Smith
* *Four Natural Disasters and a Bombing: A Look at Network Reliability*

 Greg Poston, P.E., MBA, Gresham Smith

* *SunGuide®: The Incubator for Innovations in Smart Safety*Christine Shafik, P.E., PMP, FDOT & Carla W. Holmes, P.E., PTOE, Gresham Smith

**Tuesday, November 8, 2022**

8:30 a.m. – 10:00 am **TECHNICAL SESSION 3: “3rd and Short!”** (1.5 PDH)

**Track 1: Efficiency**

* *Data Management and Reporting at the Georgia DOT TMC*

 Dolores Uttero, GDOT & Catherine Johnson, AECOM

* *Beyond Travel Time Validation: A Strategic Plan for Evaluating Emerging Industry Transportation Data*

 Dr. Stanley Young, Eastern Transportation Coalition & Zachary Vander Laan, University of Maryland

* *Seamless Data Acquisition and Management: How an Interstate Data Marketplace Matured Georgia’s Big Data Program*Denise Markow, P.E. and/or Dr. Stan Young, TETC, Matt Glasser, P.E. and/or Kofi Wakhisi, Esq., AICP, GDOT & Sam Harris, P.E., ARC

**Track 2: Flexibility**

* *Adaptive Ramp Meters Technology and Challenges*Joey Lefante, P.E., Stantec & Alaa Shams, P.E., LADOTD
* *Analysis of Headway and Speed Based on Driver Characteristics and Work Zone Configurations Using Naturalistic Driving Study Data*
Dr. Chennan Xue, Arcadis U.S., Inc., & Dr. Dan Xu, Peters and Yaffee, Inc.
* *Benchmaking ATSPMs for 40,000 Traffic Signals in the Southeast using Probe Vehicle Data*Rick Schuman, INRIX
* *Expanding the Reach of Connected Vehicle Data Using the Connected Vehicle Data Framework*Jesus Martinez, P.E., PMP, SwRI

**Track 3: Innovation**

* *NC Broadband*Jennifer Portanova, P.E., CPM, NCDOT & Cole Dagerhardt (Moderator), Exult Engineering

**Track 4: Integration**

* *A Graph-Theoretical Approach to Anticipating the Impacts of Urban Air Mobility (UAM) on Local Accessibility in 367 Small Urbanized Areas in the United States*

Chenxuan Yang, Maxwell Menner, Dr. Jun Liu, Dr. Xinwu Qian, &
Dr. Stephen Jones, University of Alabama

* *The System Manager Experience – FDOT District Two CV Project Deployments*

Ronald Meyer & David Bremer, ATKINS North America, Inc.

* *It's Electrifying! Power Up Your EV Planning with Big Data*Julie Hirni, StreetLight Data
* *Lost on your Journey to Autonomy? Check the Map*DJ Hammingh, Stantec GenerationAV®

**Track 5: Safety**

* *Towards Vision Zero – Notifying Drivers of Queues and Emergency Situations to Reduce Secondary Crashes*Terri Johnson, P.E., INRIX
* *Reducing Emergency Response Times through Cloud-based Emergency Vehicle Preemption*Timothy Menard, LYT
* *Assimilating to the Borg while Maintaining Identity: Pros and Kahns*Mike Venable & Chad Franklin, North Carolina DOT
* *Evolution of Traffic Incident Management (TIM) Teams in the Community and Best Practices*

Florida DOT D6 TSMO Office – Alex Mirones, FDOT

**Track 6: Wildcard**

* *How Forward-Thinking Cities are Funding and Deploying Connected Vehicle Technology to Improve*
Jeff O’Brien, Applied Information
* *Gwinnett County Smart Corridor Deployment Program*
Tom Sever, Gwinnett County DOT & Billy Stalcup, 360NS
* *Jacksonville Transit Authority – Ultimate Urban Circulator*
Bernard Schmidt, Jacksonville Transit Authority & Acey Roberts, P.E., WGI
* *Preparing Your Community for the Autonomous Age*Lisa Nisenson, WGI & Jennifer Foote, Beep

10:30 a.m. – 12:00 pm **TECHNICAL SESSION 4: “4th and Goal!”** (1.5 PDH)

**Track 1: Efficiency**

* *Using Big Data Analytics to Secure Infrastructure Grants*Julie Hirni, StreetLight Data
* *Leveraging Alternative Funding for Innovative ITS Pilots*Dom Ciaramitaro & Amanda Good, North Carolina DOT
* *Transportation Grant Funding – What Should You Pursue?*Matthew Volz, P.E., HDR
* *TIM Pilot Projects in Georgia*Mary Thumaty, P.E., PTOE, SEI & Roberto Perez, Atkins

**Track 2: Flexibility**

* *Evolution of Emergency Preparedness for Regional Transportation Management Centers*Don Avery, PE
* *Wrong Way Driver at the Edge and Beyond - FDOT District 1*Hadi Daryadel, 360ns & Luis Hernandez, Florida DOT
* *Battery Electric Vehicle (BEV) Fleet Conversion – Is Your Agency Ready?*Mark Barmasse, P.E., LEP & Akhil Chauhan, P.E., PMP, Arcadis
* *Re-Building A Gigabit Wireless Its Infrastructure After a Hurricane*Wayne Kairdolf, Wireproof Communications, Mike Brown, Neel-Schaffer & James Sullivan, P.E., Mississippi DOT

**Track 3: Innovation**

* *Complete Trip-ITS4US Deployment Program: Safe Trips in a Connected Transportation Network (ST-CTN)*Kofi Wakhisi, Esq., AICP & Maria Roell, Atlanta Regional Commission (ARC)
* *Real-Time Multi-Modal Common Operational Picture Dashboard – An Executive’s View of a State’s Transportation System*
Rick Ayers, CATT Lab
* *Research and Experimentation on the I-24 MOTION Testbed*Michael Rebick, PE, WSP USA and Dr. Stephanie Ivey, University of Memphis
* *How The Town of Cary, Nc, Deployed A City-Wide Connected Vehicle System*David Spencer, P.E., Town of Cary, NC

**Track 4: Integration**

* *Enabling Regional Safety and Mobility Through V2X Data Exchange*Mike Brown, Southwest Research Institute
* *Traveler Information Benefits of the New 511GA*Dolores Uttero, Georgia DOT & Anslee Schroeder, AECOM
* *Transforming Transportation Agencies with Automated Workflows and Mobile-First User Experience*Prasoon Sinha, Arcadis US, Inc.
* *Using the TMC as an Information Clearinghouse: Georgia DOT District 3’s Approach to Operations*Sharon Young, Georgia DOT & Gina Ison, AECOM

**Track 5: Safety**

* *Traffic Safety Insights Using Connected Vehicle Driving Event Data*Dr. Masoud Hamedi & Tiffany Symes, Iteris, Inc.
* *Sharing Local Work Zone Data – Collaborating Nationally and Regionally to Save Lives*Kelly E. Wells, P.E., North Carolina DOT & Simon Topp, one.network
* *SunTrax: The Future of Transportation Technology Testing*Ernest Sackey, P.E., Jacobs & Paul Satchfield, P.E., Florida's Turnpike Enterprise
* *Advanced Strategies for Emergency Vehicle Preemption using Connected Vehicle Infrastructure*Dr. Angshuman Guin, Somdut Roy, & Michael Hunter, Georgia Tech

**Track 6: Wildcard**

* *Lessons Learned from Deploying Technology While Providing Culturally Sensitive MOD Transportation Services*
Frank Lee & Hannah Wilson, Center for Pan Asian Community Services Shared Use Mobility Center
* *Sustainable Integrated Mobility Management*
Jeffrey Adley, PhD, P.E., Kapsch TrafficCom USA
* *Active Monitoring of Traffic Signals: How Smarter Signals Make Intersections Safer, Greener and More Equitable*Scott Bradley & Ben Reynolds, Sentinel Transportation System

10:00 a.m. – 12:00 pm **TECHNICAL TOUR #2: iATL Lab** (2.0 PDH)

1:30 p.m. – 3:00 pm **TECHNICAL TOUR #3: North Ave Corridor/BeltLine** (1.5 PDH)

**Wednesday, November 9, 2022**

 8:30 a.m. – 9:45 am **LOGISTICS ROUNDTABLE** (1.25 PDH)

 Griff Lynch, Georgia Ports Authority; David Weaver, FedEX;

 D’Andrae Larry, Norfolk Southern; Rebecca Brewster, American Transportation Research Institute

 Aravind Kailas, Volvo Group NA; Jannine Miller, GDOT Planning; Caroline Mays, TxDOT

10:15 a.m. – 11:30 am **CEO ROUNDTABLE** (1.25 PDH)

 George Conner, ALDOT; Omar Meitin, FDOT; Russell McMurry, GDOT

 Shawn Wilson, LADOTD; Jim Willis, MDOT; Eric Boyette, NCDOT; Daniel Halsted, SCDOT;

 Paul Degges, TDOT; Scott Marler, NOCoE

 PDH Total