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Re-tweet our tweets and create your own posts about the show using **#ITSCar17** to be entered in a raffle for a prize.

The winner will be announced September 12, 2017 during the 10:45 AM break at the show.

Raffle entries begin at 7:30 AM on September 11, 2017.

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ITS CAROLINAS

September 11-12, 2017

Charlotte, NC

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Monday, September 11—Charlotte Convention Center, Rooms 218 & 219 and Richardson Ballroom

Time	Session
7:30-8:30 AM	**Registration, Networking & Coffee** (Exhibitor Hall)—Sponsored by Atkins Global & Kapsch TrafficCom
8:30-9:30 AM	**Opening Session** (Rooms 218 & 219) Moderated by Meredith McDiarmid *(NCDOT)* Welcome | ITS Carolinas Overview | **Keynote:** Jim Trogdon *(NCDOT Secretary)*
9:30-10 AM	**Break** (Exhibitor Hall)—Sponsored by Atkins Global & Kapsch TrafficCom

(Left vertical sidebar spanning 10-11:30 AM through 2:30-3 PM: CDOT TMC Tours, Drone Demos & Daktronics Demos)

Time	Session 1A / 2A / 3A	Session 1B / 2B / 3B
10-11:30 AM	**Session 1A**—(Room 218): **Smart Transportation** Moderated by Amanda Good *(Kimley-Horn)* *What is smart transportation? What are the projects, technologies, and tools to move cities in a smarter direction? How do CAV, electric vehicles, policy, or behavior changes alter the way we think a city should look? We will take a quick look at several tools, methods and projects in a round robin format.* **The Autonomous Revolution and Local Government: Identifying Risks & Opportunities:** Kyle Clark-Sutton *(RTI)* **NC Smart and Connected Communities Initiative:** Dr. Arcot Rajesekar *(UNC-CH)* **The Economics Behind Deploying Connected Vehicles Technology along Oakland Countys Signals:** Matthew Gibb *(Oakland County)*	**Session 1B**—(Room 219): **Safety** Moderated by Frank Gross *(VHB)* *Enhancing Transportation System Safety through Innovative Technological Solutions - Presentations focusing on Improved Surveillance, Warning and Weather Systems.* **Intersection Conflict Warning System:** Scott Himes *(VHB)* **I-77 Fog Alert System, Carroll County, VA:** Tim Martin *(VDOT)* and Mike McPherson *(VDOT)* **Dynamic Red Phase:** Carrie Simpson *(NCDOT)*
11:30 AM-1 PM	**Lunch** (Exhibitor Hall)— Sponsored by J.O. Herbert Co., Inc., 360 Network Solutions, MULTILINK, Iteris, Inc. & American Signal Company	
1-2:30 PM	**2A** (Room 218): **University Research Panel** Moderated by Michael Clamann *(Duke University)* *Automated Vehicles will have a broad impact on not only transportation, but also our daily lives. Panelists from Duke University discuss several aspects of AV including studies ranging from technology developments to ethical and moral decisions. Speakers present some of their research and involvement in initiatives related to human-robot interaction; artificial intelligence and recent developments related to autonomous vehicles; moral decision making in self-driving cars; policy issues—specifically adaptive regulation options for highly dynamic industries and strategies available to promote innovation while keeping the public safe.* **Computer Science:** Vincent Conitzer *(Duke University)* **Ethics:** Walter Sinnott-Armstrong *(Duke University)* **Policy:** Lori Bennear *(Duke University)*	**2B** (Room 219): **ITS Yesterday, Today, Tomorrow** Moderated by Anita Vandervalk-Ostrander *(Cambridge Systematics)* *This session will take us on a time travel trip through the past, present & future of technology in transportation. We will discuss Intelligent Transportation Systems of the past; where we are today with North Carolina as an example; and examine how Connected and Automated Vehicles and Smart Cities will impact traveler information and system operations in the future.* **Yesterday-History of ITS, Technology, and Smart Transportation:** Bob McQueen *(The 0Cash Company)* **Today-Overview of ITS in North Carolina:** Meredith McDiarmid *(NCDOT)* **Tomorrow-What Does the Future of ITS Look Like? Impact of CAV and Smart Cities:** Dr. Randy Butler *(CDM Smith)*
2:30-3 PM	**Break** (Exhibitor Hall)—Sponsored by Atkins Global & Kapsch TrafficCom	
3-4:30 PM	**3A** (Room 218): **Data: Policy, Management & Secruity** Moderated by Nikola Ivanov *(UM CattLab)* *Are you using the latest trends and security measures in your ITS applications? This session covers data policy, management, and security. With speakers from Amazon, Cambridge Systematics, and Phoenix Contacts, this session will give the latest trends on the best way to deal with data in ITS.* **Data Policy: US DOT Roadway Transportation Data Business Plan Guidance for State and Local DOTs:** Anita Vandervalk-Ostrander *(Cambridge Systematics)* **Data Management: Utilizing the Cloud for Intelligent Transportation Systems:** Dan Kasun *(Amazon)* **Data Security: Cyber Security for ITS:** John Finta *(Phoenix Contacts)*	**3B** (Room 219): **ITS Technology** Moderated by Tony Taglifieri *(NCDOT)* *Most people know ITS and Technology are joined at the hip. This session will attempt to dig deeper into advances in technology as we move further into the 21st Century. We will investigate some of the latest trends today and where things are going in the next few years.* **The Next Great Thing in Transit Signal Priority:** Charles Abel *(City of Charlotte)* and Jon Ringler *(Aegis ITS)* **The I-85 WZ Traffic Management System:** Steve Kite *(NCDOT)* **DSRC vs 5G: The Latest Developments in V2X Technologies:** Jeffrey Addler *(Kapsch)*
4:30-5:30 PM	**Vendor Activity/Cornhole Tournament** (Exhibitor Hall)	
6-9 PM	**Reception/Cornhole Tournament** (Exhibitor Hall)—Sponsored by Q-Free, Kimley-Horn & Utilicom Supply Associates	

DRONES & DAKTRONICS DEMOS AND TMC TOURS

Tour the Charlotte DOT (CDOT) Traffic Management Center (TMC), where CDOT monitors traffic signals, intersections, and roads and proactively deploys traffic management strategies to reduce congestion and coordinate state and local authorities during special events, emergencies, or daily traffic. Co-located with the Charlotte Mecklenburg Police Department (CMPD) Real Time Crime Center, CDOT maintains 406 traffic management cameras and 765 traffic signals. Meet at the registration desk in the convention center 15 minutes before start time to walk 6 blocks to the tour location. **Tours at 10 AM, 1 PM and 2 PM Monday, limited to 7 people per tour.**

Join us for a UAV/Drone Demonstration sponsored by AECOM! See the latest in UAV technology and learn how it relates to transportation and our future. We'll provide a UAV on site for show and tell. **Demos at 1 PM, 2 PM & 3 PM Monday**

Daktronics is pleased to present their revamped Vanguard Road Show featuring the latest in high resolution full-color (HRFC) Dynamic Message Signs. Their team of ITS professionals will be available to discuss the intricate details of the DMS. Please join us for this unique experience to get up close and personal with one of the most exciting advances in DMS technology for the Carolinas. **10 AM to 2 PM Monday**

Tuesday, September 12—Charlotte Convention Center, Rooms 218 & 219 and Richardson Ballroom

Time	Session A	Session B
7-8 AM	**Networking & Coffee** (Exhibitor Hall)—Sponsored by Cambridge Systematics, INRIX, STV & Skyline Technology Solutions	
8-9:15 AM	**Session 1A**—(Room 218): **Signal System Arterial Operations and Corridor Management** Moderated by Eddie Curtis *(FHWA)* *This session is focused on tools and technology used to improve arterial operations and corridor management by using advanced technologies.* **Arterial Traffic Tool Using Probe Data:** Dan Farley *(PennDOT)* **High-Resolution and Probe Data Study with NCDOT:** Bastion Schroder *(Kittleson)* **ATSPM and CAV:** Raj Ponnaluri *(FDOT)*	**Session 1B**—(Room 219): **Incident Management & Operations—Exception to the Rules** Moderated by Jennifer Portanova *(NCDOT)* *Traffic Operation and Incident Management functions certainly present daily challenges that we all face. However, how do we handle exceptions to the rules? How do Traffic Operations and/or Incident Management change during crises like hurricanes, bridge collapses or major work zones? Do we think differently? Do we react differently? What rules are broken? Which rules still stand?* **I-85 Bridge Collapse and Management of Traffic:** Andrew Heath *(GDOT)* **Eclipse Traffic Management:** Tony Fallow *(SCDOT)* **Managing Traffic during Hurricane Matthew and Subsequent Flooding:** Kelly Wells *(NCDOT)*
9:15-9:30 AM	**Break** (Exhibitor Hall)—Sponsored by Cambridge Systematics, INRIX, STV & Skyline Technology Solutions	
9:30-10:45 AM	**Session 2A**—(Room 218): **Signal System Technology—Planning for the Future** Moderated by Zachary Clark *(NCDOT)* *This session will be a panel of experts available for questions on the infrastructure and technologies needed/available to support the future of high resolution data and connected vehicles for signal systems.* Bernie Stouchko *(NCDOT)* Scott Dolson *(Miovision)* Darcy Bullock *(Purdue University)* Mike Clance *(Intelight)*	**Session 2B**—(Room 219): **ITS: Service to the Public** Moderated by Tiger Harris *(Iteris)* *The goal of this session is to remind us why we ultimately do ITS and TSMO; to serve the citizens. You know, those people traveling up and down I-77 or I-95 as we type our emails and sort our spreadsheets! Our panelists will share the cool things they are doing or see coming to our industry that will help us serve the public better. Our panel discussion will include asking what the biggest gaps and opportunities are, to both the public and private sectors, in serving the traveling public going forward.* **511 PAConnect and Hands-Free-Eyes-Free Mobile App:** Mary Farrell *(Information Logistics)* **Creating the Next Level TMCs:** Dan Corey *(AECOM)* **The Next Generation of Transportation:** Terri Johnson *(NCDOT)*
10:45-11:15 AM	**Break** (Exhibitor Hall)—Sponsored by Cambridge Systematics, INRIX, STV & Skyline Technology Solutions	
11:15 AM-12 PM	**Closing Session** —(Room 218): Moderated by Dave Simmons *(Atkins)* Focus on gathering member input on the action items the chapter should take forward for the upcoming year based on the strategic plan that was presented in the Opening Session	

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