

Last updated September 10, 2019

## 2019 TAC-ITS CANADA JOINT CONFERENCE TECHNICAL PROGRAM SUMMARY

S=Sessions | P=Panel Discussions | W=Workshops

### SMART CITIES & BIG DATA (SC)

#### Monday, September 23

- SC.1 What is Transportation's Role in Smart Cities? (P)  
*Sponsored by Atlantic Industries Limited*

#### Tuesday, September 24

- SC.2A Smart City Challenge: Practical Applications (S)  
SC.2B Smart City Challenge: Practical Applications (S)  
SC.3 ITS for Life (P)

#### Wednesday, September 25

- SC.4 Artificial Intelligence and Machine Learning for Smart Mobility (S)  
SC.5 How Do We Prepare Urban Transportation for a World of Big Data? (P)

### CONNECTED & AUTOMATED VEHICLES (CAV)

#### Monday, September 23

- CAV.1A Preparing for CAVs, Part 1: Technical Challenges and Developments (S) *Sponsored by Econolite Canada Inc.*  
CAV.2 CAV Security (SCMS) Consultation Workshop for Infrastructure Owner/Operators (W)

#### Tuesday, September 24

- CAV.1B Preparing for CAVs, Part 1: Technical Challenges and Developments (S)  
CAV.1C Preparing for CAVs, Part 1: Technical Challenges and Developments (S)  
CAV.4 Connected Vehicle: The Future of the Mobility (P)  
CAV.5A Preparing for CAVs, Part 2: Readiness Planning and Pilot Projects (S)

#### Wednesday, September 25

- CAV.5B Preparing for CAVs, Part 2: Readiness Planning and Pilot Projects (S)

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### PUBLIC TRANSPORTATION & NEW MOBILITY (PT)

#### Monday, September 23

PT.1 Integrated Mobility: The MaaS Revolution (S)

#### Tuesday, September 24

PT.2 Public Transportation ITS (S)

#### Wednesday, September 25

PT.4 Sustainable Urban Transportation Award Finalists (S)

PT.5 Emerging Issues in Urban Transportation: Examining the Public Interest in New Mobility (S)

### PLANNING, ENVIRONMENT & CLIMATE CHANGE (PE)

#### Monday, September 23

PE.1A Best Practices in Urban Transportation Planning (S)

#### Tuesday, September 24

PE.1B Best Practices in Urban Transportation Planning (S)

PE.2 Sink or Swim: A Panel Discussion on Decision to Emergency Management (P)

PE.3 Environmental Achievement Award Finalists (S)

PE.7 What's the Buzz? Noise—Transportation Policy & Practice in Canada (P)

#### Wednesday, September 25

PE.5 Beyond the Storm—Responding to Extreme Weather and Climate Events (S) *Sponsored by Atlantic Industries Limited*

PE.6 Transportation Demand Modelling (S)

PE.8 Integrating Health and Transportation (S)

PE.9 The Role of ITS in Climate Change Adaptation (P)

### ROAD SAFETY (RS)

#### Monday, September 23

RS.1A General Issues in Road Safety (S) *Sponsored by Basin Contracting Ltd.*

RS.2A ITS in Support of Vision Zero (S)

#### Tuesday, September 24

RS.2B ITS in Support of Vision Zero (S)

RS.3A Improving Safety for Vulnerable Road Users (S)

RS.3B Improving Safety for Vulnerable Road Users (S)

RS.4 Innovative ITS Applications in Road Safety (P)

RS.5 Young Professionals Panel—ITS & Transportation Strategies for a Safer Future (P)

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### ROAD SAFETY (RS) continued

#### Wednesday, September 25

- RS.1B General Issues in Road Safety (S) *Sponsored by Alva Construction*  
RS.6 Improving Safety through Speed Management (S)

- RS.7 The Evolving Challenges and Opportunities in Speed Management (P)  
RS.8 Road Safety Engineering Award Finalists (S)

### RURAL ITS (RI)

#### Monday, September 23

- RI.1 Enhancing Rural Transportation Safety through Technology (S)

#### Tuesday, September 24

- RI.2 ITS in Small Municipalities (P)

### OPERATIONS (OP)

#### Monday, September 23

- OP.11 Ports, Freight, Logistics – A Winning Combination (P)

- OP.6 Next-Gen ICM (Integrated Corridor Management) (W)  
OP.10 Advance Parking Reservation & Guidance Systems for Public Authorities & Major Commercial/Event Venues (P)

#### Tuesday, September 24

- OP.1 Cybersecurity for Intelligent Transportation Systems (P) *Sponsored by AON*  
OP.2 #InnovativeTrafficControl (S)  
OP.3A Intelligent Transportation System (ITS) Cybersecurity Tabletop Workshop (W)  
OP.4 Traffic Control on a Budget: Success Stories (S)  
OP.5 Transportation Data Sharing Workshop: Balancing Public and Private Needs (W)

#### Wednesday, September 25

- OP.3B Intelligent Transportation System (ITS) Cybersecurity Hands-on Technical Workshop (W)  
OP.7 Innovative Solutions to Enhance Goods Movement (S)  
OP.8 Smart Traffic Signals (S)  
OP.9 Quality Assurance for Traffic Management during Construction Projects (S) *Sponsored by Brycon Construction Limited*

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### ROAD DESIGN (RD)

#### Monday, September 23

RD.1 Design Considerations for Transforming Existing Infrastructure to Complete Streets (S)

#### Tuesday, September 24

RD.2 Roundabout Planning, Design and Operations (S)  
RD.3A Designing Interchanges and Major Facilities in Constrained Conditions (S)

RD.3B Designing Interchanges and Major Facilities in Constrained Conditions (S)

#### Wednesday, September 25

RD.4 Bicycle Design Considerations within Complete Streets (S)

### CONSTRUCTION, MAINTENANCE & ASSET MANAGEMENT (CM)

#### Monday, September 23

CM.1 Spatial Dimensions of Asset Management (S) *Sponsored by Bentley Systems Inc.*  
CM.2 ITS in Road Maintenance & Construction: Impacts Today and in the Future (S)

#### Tuesday, September 24

CM.5 Asset Management in the Face of Climate Change (S)

#### Wednesday, September 25

CM.6 Mitigating Utility Risk on Transportation Projects (S)

### MATERIALS, PAVEMENTS & STRUCTURES (MPS)

#### Monday, September 23

MPS.1 Asphalt Mix Designs—State of the Practice (P) *Sponsored by Northern Contracting Limited*  
MPS.3 Service Life and Sustainability of Bridges (P) *Sponsored by Halifax Harbour Bridges*

#### Tuesday, September 24

MPS.2 Innovations in Geotechnical and Materials Engineering (S) *Sponsored by Atlantic Industries Limited*  
MPS.4A Structures (S) *Sponsored by Harbourside Engineering Consultants*  
MPS.6A Innovations in Pavement Management, Engineering and Technologies (S) *Sponsored by Halifax Harbour Bridges*

#### Wednesday, September 25

MPS.4B Structures (S) *Sponsored by V. J. Rice Concrete Ltd.*  
MPS.4C Structures (S)  
MPS.6B Innovations in Pavement Management, Engineering and Technologies (S)  
MPS.7A Testing and Modeling of Road and Embankment Materials (S)  
MPS.7B Testing and Modeling of Road and Embankment Materials (S)

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### RESEARCH & WORKFORCE DEVELOPMENT (RW)

#### Monday, September 23

- RW.1 Educational Achievement Award Finalists (S)
- RW.2 Communicating Effectively: A Soft Skills Development (W)
- RW.3 A Global Laboratory to Experiment Emerging Technologies for Transportation (P)

#### Tuesday, September 24

- RW.4 What Academic Research for Future Transportation Deployment Optimization? (P)
- RW.5 Impact of Technology in the Workplace, the Good and the Bad (P)
- RW.6 Women in Engineering: Yesterday's Challenges & Tomorrow's Opportunities (P)
- RW.7 Young Professionals—Workforce Expectations (P)

#### Wednesday, September 25

- RW.8 The Ever-Evolving ITS Professional (P)