

ITS CANADA 2021 NOVEMBER CONFERENCE

Monday, November 29, 2021

Keynote Address: *Work Hard, Play Hard: The Art of Working Hard While Staying Healthy*
Lieke L. ten Brummelhuis PhD, Simon Fraser University
11 am - 11:30 am EDT

There is an upward trend among professionals in North America to work long hours in the past decennium. In this presentation, the main question addressed is whether there are healthy ways to work hard. Thereto, Lieke first explains how stress develops on a regular workday, and how stress levels can be brought back to their baseline to prevent health and productivity issues. Then she discuss what happens if stress becomes ongoing, either due to pressures from work, or due to an inner drive to work hard (workaholism). Finally, Lieke discusses strategies that help employees to work in healthy ways and wrap up with practical tips for employers and employees.

Monday November 29, Innovation Session #1 - 11.30 AM - 12:45 PM EDT

Author	Company	Title	Topic
Kassi Venceslas / Prof. Ilham Benyahia	UQO	<i>ITS communications technologies challenges for emergency calls performance</i>	emergency/first responder
Jonathan Darton	IBI	<i>Evolution of Alberta's 511 program - transition from winter priorities to year round operations</i>	emergency/first responder
Brent Cary	Genetec	<i>Urban ITS</i>	emergency/first responder
Eshan Bagheri	Parsons	<i>Automated rule-based signing strategy application (SSA) for management of complex events on hightway networks</i>	emergency/first responder

Monday November 29, Innovation Session #2 - 11.30 AM - 12:45 PM EDT

Author	Company	Title	Topic
Joseph Zhou	Rapid Flow Technologies	<i>The impacts of a new generation objective based adaptive control system in the City of St. Albert</i>	Mobility Technologies
Sameer Patil	City of Calgary	<i>Transition to the next gen TMC - The City of Calgary experience</i>	Mobility Technologies
Sajad Shiravi	Miovision	<i>On-Demand Traffic Signal Retiming, From Theory to Practice</i>	Mobility Technologies
Kirk Schuller	York Region	<i>Mobile Transportation technology applications at York Region</i>	Mobility Technologies
Steve Ennis	ATS Traffic	<i>Advances in Mobile technology and Asset Management in the Traffic Industry Track</i>	Mobility Technologies

Exhibitor Spotlights - 1:00 pm - 2:00 PM

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ITS 2021 Student Essay Podcast 2:00 PM - 2:30 PM EDT

TABLE TOP DISCUSSION I - 2:45 PM - 3:30PM

Monday November 29, Innovation Session #3 - 3:30 PM - 4:45 PM EDT

Author	Company	Title	Topic
Dave Michelson	UBC	<i>AURORA 2.0 - Canada's 5G connected vehicle testbed</i>	Standards
Geoff Knapp	WSP	<i>Maintenance and Training for ITS Architecture for Canada</i>	ITS Architecture
Kevin Heffner	Pegasus Research and Technologies	<i>MIT'S MMITS Architecture components</i>	ITS Architecture

Monday November 29, Innovation Session #4 - 3:30 PM - 4:45 PM EDT

Author	Company	Title	Topic
Ian Steele	PBX	<i>Rail crossing information system</i>	Goods Movement Technologies
Amir Amiri	MITL	<i>Autonomous vehicle technology for shaping the future of goods movement: a case study for Ontario</i>	Goods Movement Technologies
Tina Harron	IRD	<i>Technologies in Commercial Vehicle Operations, AI-based CVSA Decal Reader</i>	Goods Movement Technologies
Tyler Haichert	IRD	<i>Tire Safety Screening</i>	Goods Movement Technologies
Peter Fedechko	IRD	<i>Regina Bypass commercial vehicle operations</i>	Goods Movement Technologies

Keynote Address: Work Hard, Play Hard: The Art of Working Hard While Staying Healthy (encore presentation)
Lieke L. ten Brummelhuis PhD, Simon Fraser University
4:45 PM - 5:15 PM EDT

ITS Canada Rock Show - Exhibitor Happy Hour
8:00 PM - 9:00 PM EDT

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TiED TALK - (Transportation Innovation Engineering Discussion) Yealand Wong, Transnomis 11:00 AM - 11:30 AM EDT

In this entertaining and engaging discussion, Yealand "Yeats" Wong talks about his philosophy in working with innovation and the cutting edge of transportation technology. With a 20 year career that has spanned from both provincial and municipal government, and consulting to supplier, Yealand explores his lessons learned as an ITS

Tuesday November 30, Innovation Session #5 11.30 AM - 12:45 PM EDT

Author	Company	Title	Topic
Steve Erwin	CIMA+	<i>Ontario's predictive transportation management approach</i>	Safety
Adam Weiss	UoC	<i>Understanding users perceptions of safety while riding e-scooters on different surface types programs</i>	Safety
Taufiq Rahman	NRC	<i>An overview of Cyer Security threats involving perception sensors for driving automation systems</i>	Safety
Shivang Dube	Transport Canada	<i>EasyMile Pilot</i>	Safety

Tuesday November 30, Innovation Session #6 11.30 AM - 12:45 PM EDT

Author	Company	Title	Topic
Doug Gubbe	Novax	<i>Pedestrian accessibility on streets and sidewalks, challenges and lessons learned and climate impact</i>	Vulnerable Road Users
Brendon Hemily	Hemily & Associates	<i>Perspectives on Connected and Automated Vehicles and Vulnerable Populations</i>	Vulnerable Road Users
Sara Khosravi	Kapsch	<i>Smartphone application to improve visually impaired pedestrians' safety and mobility in a connected vehicle environment</i>	Vulnerable Road Users
Doug Gubbe	Novax	<i>How infrastructure design and technology have helped improve pedestrian and bicycle mobility and safety</i>	Vulnerable Road Users

Exhibitors in the Spotlight - 1:00 PM - 2:00 PM EDT

ITS Canada Diversity Award presentation 2:00 PM - 2:30 PM EDT

Tabletop Discussion II 2:45 PM - 3:30 PM EDT

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Tuesday November 30, Innovation Session #7 - 3:30 PM - 4:45 PM EDT

Author	Company	Title	Topic
Sumeet Kishnani	Stantec	<i>Real-time monitoring of construction delays in a 720 km workzone through the Canadian Rockies</i>	Connected Environment
Melinda Tracey	IBI	<i>Utilizing ATMS for safety in workzones (Signaling for roadworks - SIR)</i>	Connected Environment
Seiran Heshami / Lina Kattan	UoC	<i>A dynamic bargaining game theory approach to freeway control in a connected environment</i>	Connected Environment
Roy Tal	Visual Defence	<i>Road operated video operation recognition (ROVER)</i>	Connected Environment
Mostafa Salari	UoC	<i>Path Flow Reconstruction in a Connected Environment</i>	Connected Environment
Lija Whittaker	MTO	<i>Queue & Stopped Vehicle Advisory System on Highway 405</i>	Connected Environment

Tuesday November 30, Innovation Session #8 - 3:30 PM - 4:45 PM EDT

Author	Company	Title	Topic
Sumaya Nsair	UoC	<i>Dynamic transit passenger origin destination estimation: a bilevel variational inequality approach</i>	Transit
Aurélien Cottet	Instant-System	<i>MaaS, regaining control over a mobility policy</i>	Transit
Mr. Kareem Othman	UoT	<i>Novel Transit Improvement Strategies that Consider the Impact on the General Traffic</i>	Transit
Asiri Senasinghe	UoC	<i>Autonomous feeder network design with consideration to fairness</i>	Transit

TiED TALK - (Transportation Innovation Engineering Discussion)
Yeatland Wong, Transnomis
4:45 PM - 5:15 PM EDT

Closing Remarks
5:15 PM - 5:30 PM EDT

ITS Innovation Summit part 2 - Date TBD