



CTRF 2020 Webinar Series: Paper Sessions

All sessions begin @ 11:00 Eastern

Session	Day	Date	Topic
Session 1	Wednesday	June 03	Air Transportation Issues (1 hr)
Session 2	Friday	June 05	Data Solutions for Enhancing Transportation Performance (1 ½ hrs) Followed by: Policy and Regulation (1 hr)
Session 3	Wednesday	June 10	Regional Supply/Demand Analysis (2 hrs)
Session 4	Friday	June 12	Methods in Urban Transportation Planning – Part I (1 ½ hrs) Followed by: Cross-Border Trade and Transportation (1 hr)
Session 5	Wednesday	June 17	Accessible and Active Transportation (1 ½ hrs)
Session 6	Friday	June 19	Last Mile Delivery (1 ½ hrs) Followed by: Issues in Trucking (1 hr)
Session 7	Wednesday	June 24	Taxicab/Ride-hailing Services (2 hrs)
Session 8	Friday	June 26	Goods Movement in Ontario (1 ½ hrs) Followed by: ITS Analytical Tools (1 hr)
SUMMER BREAK			
Session 9	Wednesday	September 09	Optimizing Infrastructure (2 hrs)
Session 10	Friday	September 11	Attaining Sustainability – Part I (1 hr) Followed by: Attaining Sustainability Part II (1 ½ hrs)
Session 11	Wednesday	September 16	Determining Mode Choice (2 hrs)
Session 12	Friday	September 18	Methods in Urban Transportation Planning – Part II (1 ½ hrs) Followed by: Transportation in Remote Areas (1 hr)
Session 13	Wednesday	September 23	E-Vehicles (1 ½ hrs) Followed by: Autonomous Vehicles (1 hr)

Paper Session Details

<p>Session 1 – Wednesday June 3</p> <p><u>Air Transportation Issues</u></p> <p>Moderator: Joseph Schulman Host: Vijay Gill</p> <p>“Grounded: The Impact of Boeing 737 MAX on airline performance” <i>Valeriya Mordvinova, Kerri Stevenson, Robert Larmour, Lawrence McKeown</i></p> <p>“The Future of Regional Turboprop Aircraft in Canada” <i>Jody Kositsky, Mike Tretheway, Roeland Visser</i></p>

Session 2A – Friday June 5

Data Solutions for Enhancing Transportation Performance

Moderator: Don McKnight

Host: Trevor Hanson

“The value of measures of the logistics system to industry: The Western Canadian grain sector as an illustration”

Mark Hemmes, Steve Pratte

“Railway Line Capacity Metrics”

Ryan Gallagher, Lucia Stuhldreier, François E.J. Tougas

“Towards an International Standard for Transportation Planning Data”

Megan Katsumi, Mark Fox

Session 2B – Friday June 5

Policy and Regulation

Moderator: Don McKnight

Host: Trevor Hanson

“Recent Legal Developments of Interest in the Transport of Petroleum Products by Rail in Comparison to the Transport of Petroleum Products by Pipeline”

Julia C. Loney

“2019 Regulatory developments in Canadian transportation”

Joseph Monteiro, Barry E. Prentice

Session 3 – Wednesday June 10

Regional Supply/Demand Analysis

Moderator: Robin Lindsey

Host: Trevor Hanson

“Assessing the efficiency of household residential location choices”

Hubert Verreault and Catherine Morency

“Allocation model of activity patterns”

Julien Douville, Catherine Morency

“Forecasting Travel Activity Participation, Mode Choice and Vehicle Allocation: An Agent-based Tour-level Microsimulation Approach within an Integrated Urban Modeling System”

Mahmudur Rahman Fatmi, Nazmul Arefin Khan, Muhammad Ahsanul Habib

“A Comprehensive Validation Analysis of an Activity-based Travel Demand Microsimulation Model”

Hasan Shahrier, Muhammad Ahsanul Habib

Session 4A – Friday June 12

Methods in Urban Transportation Planning - I

Moderator: Steve Pratte

Host: Vijay Gill

“Scenario Planning to Navigate Change and Uncertainty”

Blair Underhill, Alec Knowles, Sarah Krapez, Adrian Lightstone

"Geographic Heterogeneity in Perceived Quality of Bus Transit Service"

Connor Nickel, Gamal Eldeeb, Moataz Mohamed

"Evaluation of the Transit Preferential Treatments by Developing A Traffic Microsimulation Model"

Sadia Munia, Mahmudur Fatmi

Session 4B – Friday June 12

Cross-Border Trade and Transportation

Moderator: Steve Pratte

Host: Vijay Gill

"Cross-Border Trade Between Canada-US by Rail In 2017"

Chris Aspila, William P. Anderson

"Full Steam Ahead: Transoceanic Travel Time and Global Migration Patterns"

Q. Rallye Shen

Session 5 – Wednesday June 17

Issues in Accessible and Active Transportation

Moderator: Robin Lindsey

Host: Mark Hemmes

"A Tale of Two Cities: Development of Cycling Demand Models for New Zealand and Canada"

Muntahith Mehadil Orvin, Mahmudur Rahman Fatmi, Subeh Chowdhury

"The Growth of Paratransit in Montreal: Ways to Adapt"

Camille Garnier, Martin Trepanier, Catherine Morency

"Mapping and routing the underground City of Montreal, Canada"

Catherine Morency and Jean-Simon Bourdeau

Session 6A – Friday June 19

Last Mile Delivery

Moderator: Glareh Amirjamshidi

Host: Joel Carlson

"Stochastic Mobile Depot Location Problem in Crowd-shipping"

Kianoush Mousavi, Merve Bodur, Matthew Roorda

"Pilot Off-Peak Delivery Program in the Region of Peel"

Kianoush Mousavi, Glareh Amirjamshidi, Matthew Roorda and Sabrina Khan

"The Economic Viability of Autonomous Unmanned Aerial Vehicles (Drones) In Urban Transport, The Impact of Airspace Regulations"

Mohamed Elsayed, Moataz Mohamed

Session 6B – Friday June 19

Issues in Trucking

Moderator: Glareh Amirjamshidi

Host: Joel Carlson

"Pathway for the truck driver market: A review of key issues and developments in Canada and the US: driver shortage, contractor misclassification, new business models"

Andrew Tam

“The GPS Data Matrix Reloaded – Statistics Canada’s Pilot Study”
Serge Godbout, Agnes Waye, Anthony Wright, Nathalie Hamel

Session 7 – Wednesday June 24

Taxicab/Ride-hailing Services

Moderator: Garland Chow

Host: Mark Hemmes

“Benefits, Costs and Other Impacts from the Introduction of Transportation Network Companies”
Joel Carlson and Ashok Kinjarapu

“Transforming raw taxi data into a dashboard for decision making”
Anjeli Narrainen, Catherine Morency

“Temporal Changes in Transit-Integrated Ridesourcing Trip Patterns”
Jacob Terry, Emma Swarney, Chris Bachmann

“The Diffusion of Ride Sharing in Canada”
Aya Hagag, Lawrence McKeown, Nicole Minnema, Mark Uhrbach

Session 8A – Friday June 26

Goods Movement in Ontario

Moderator:

Host: Steve Pratte

“Evaluating the inter-dependence between network robustness and trade criticality with an application to the Province of Ontario, Canada”
Georgiana Madar, Hanna Maoh

“A Commercial Vehicle Model for Greater Toronto And Hamilton Area”
Tufayel Chowdhury, Matthew J. Roorda

“Economic Sectors and Freight Transportation Status, Trends, Impacts and Freight Response Options”
Andrew Tam

Session 8B – Friday June 26

ITS Analytical Tools

Moderator:

Host: Steve Pratte

“Semantically enabled sensor data integration for ATIS in the transportation domain”
Hasan Bayanouni, Megan Katsumi, Mohamed El-Darieby, Baher Abdulhai, Mark S. Fox

“VDML-Based CAV Modeling Based On ARC-IT 8.2”
Hazem Youssef and Mohamed El-darieby

SUMMER BREAK

Session 9 – Wednesday September 9

Optimizing Infrastructure

Moderator: Adrian Lightstone

Host: Mark Hemmes

“Prescriptive Analytics for Strategic Planning and Optimized Asset Management”

Hao Zhang, Moataz Mohamed, Zoe Li, Wael El-Dakhkhni

“The Evolution of The Western Canadian Grain Handling and Transportation System: A Summary of Change and Charting the Future”

Steve Pratte

« Investissements dans les transports en commun et dans le réseau routier au Québec: Vers l’atteinte du ratio de 50 :50 »

Renaud Gignac

“Modelling and Visualization of Infrastructure Demand, Capacity, and Utilization”

Alec Knowles, Salah Koleilat, Nour Elnawawi, Paul Deng, Adrian Lightstone, and Mausam Duggal

Session 10A – Friday September 11

Attaining Sustainability - I

Moderator: Joseph Schulman

Host: Vijay Gill

“Pricing vehicle emissions and congestion on an urban road network using a dynamic traffic simulator”

Shaghayegh Vosough, André de Palma, Robin Lindsey

“The Use of Hydrogen in Transportation: A Strategic Advantage for Quebec”

Jacques Roy, Marie Demers

Session 10B – Friday September 11

Attaining Sustainability - II

Moderator: Joseph Schulman

Host: Vijay Gill

“Mandate and Structural Challenges for the IMO on the Path to Decarbonization?”

Aldo Chircop, Desai Shan

“LNG Transition as a Marine Fuel in Norwegian Shipping: A Way Forward For Canada?”

Sofiane Laribi, Emmanuel Guy

“Reducing GHG Emissions from Transport In Canada: With a Particular Focus on the Case of Freight Rail”

Malcolm Cairns

Session 11 – Wednesday September 16

Determining Mode Choice

Moderator: Don McKnight

Host: Steve Pratte

“Perception of comfort on board of a mass transit vehicle and impact on the client’s itinerary choice”

Marc-Antoine Gauthier, Catherine Morency

“An Air Passenger Airport Access Model”

James Vaughan, Yang (Luna) Xi, Eric J. Miller

“Evaluating Transit Accessibility Impacts on Transit Choice in the Region of Waterloo”

Devin Feng, Chris Bachmann, Dawn Parker

“Are the modes of transport independent? Assessing multimodal mobility at the individual level”

Elodie Deschaintres, Catherine Morency, Martin Trepanier

Session 12A – Friday September 18

Methods in Urban Transportation Planning - II

Moderator: Steve Pratte

Host: Joel Carlson

“How Equitable Are Our Streets? A Needs-Gap Analysis of Street Space Allocation”

Gabriel Lefebvre-Ropars, Catherine Morency, Paula Negron-Poblete

“Investigating Desired Transit Quality: A Targeted-Customers Approach”

Gamal Eldeeb, Moataz Mohamed

“Factors affecting pedestrian injury severity: an investigation of traffic collisions in Toronto”

Shaila Jamal, K. Bruce Newbold

Session 12B – Friday September 18

Transportation in Remote Areas

Moderator: Steve Pratte

Host: Joel Carlson

“Cargo Airship Fuel Transport: Canadian Shield Case Study”

Barry Prentice, John Wilms

“A framework for cumulative risk assessment (cra) for marine shipping: a case study in the Kitikmeot region”

Priscilla Einecke Schmitz, Ronald Pelot, Floris Goerlandt and David Barclay

Session 13A – Wednesday September 23

E-Vehicles

Moderator:

Host:

“Optimizing Electric Bus Transit Systems: A Review of Modelling Techniques and Methods”

Lucas DaSilva, Moataz Mohamed

“Uncertainty in Electric Bus Energy Consumption: The Impacts of Grade and Driving Behaviour” *Hatem Abdelaty, Moataz Mohamed*

“Assessing the Feasibility of Energy Storage System for Electric Bus Transit Planning”

Hatem Abdelaty, Mohamed Elsayed, Moataz Mohamed

Session 13B – Wednesday September 23

Autonomous Vehicles

Moderator:

Host:

“Modelling the Adoption of Autonomous Vehicle as a Shared and Privately Owned Vehicle”

Md Shahadat Hossain, Mahmudur Rahman Fatmi

“A Microscopic Model for Jaywalking at Unmarked Crosswalks”

Md Asif Hasan Anik, Moinul Hossain, Muhammad Ahsanul Habib

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