



61st Annual CTRF Conference May 24 – 27, 2026

Four Points Sheraton, Halifax, Nova Scotia

FINAL PROGRAM

Mobilizing our Future: TRANSPORT INNOVATIONS FOR A STRONGER CANADA

DAY ONE		Sunday, May 24, 2026
6:00 pm – 8:00 pm	President's Reception <i>Location: The Bitter End</i> Sponsor: Railway Association of Canada	
8:00 pm – 10:00 pm	CTRF Trivia <i>Location: The Bitter End</i>	

DAY TWO		Monday, May 25, 2026
8:00 am – 10:00 am	Welcome Remarks and Announcements <i>Location: Admiral's Room</i> The Honourable Fred Tilley, Minister of Public Works, Government of Nova Scotia Andy Fillmore, Mayor of Halifax, HRM Adrian Lightstone, President, CTRF Plenary I: Mobilizing our Future: Transport Innovations for a Stronger Canada Moderator: Adrian Lightstone, President, CTRF Panelists: Dr. Mary R. Brooks, C.M., Professor Emerita, Dalhousie University Dave Reage, Executive Director, Strategic Infrastructure & Transportation Planning, HRM Dr. Ahsan Habib, Director, DalTRAC & Professor, Dalhousie University Platinum Sponsor: Transport Canada AV Sponsor: ACOA	
10:00 am – 10:30 am	Coffee Break & Networking <i>Location: Four Points Foyer</i> Sponsor: Oceanex	

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DAY TWO		Monday, May 25, 2026			
10:30 am – 12:00 pm Concurrent Sessions	Session 1.1 Net-Zero, Emissions & Climate Policy	Session 1.2 Transit Operations & Bus Systems	Session 1.3 Air Transportation & Aviation Policy Sponsor: Halifax Airport Authority	Session 1.4 Emergency Response, Resilience & Safety	
	Location: Navigator	Location: Admiral’s South	Location: Compass B	Location: Compass C	
	Chair: Elizabeth Drake	Chair: Catherine Morency	Chair: Barry Prentice	Chair: Jim Frost	
	Clearing the Skies: Pathways to Net-Zero Air Cargo Emissions in Canada by 2050 Hao Thi Lam, Chris Bachmann, Clarence Woudsma	Battery Electric Bus Transit System Design Under Renewable Integration Ahmed Foda, Moataz Mohamed	Airport Catchment Shifts in Atlantic Canada: A Spatiotemporal Analysis Kaleab Woldeyohannes Yirgu, Kurt Fuellhart	From Risk to Resilience: A GIS-Driven framework for Measuring Community Connectivity Erin Vedam, Nick Shaw, Ahsan Habib, Charlie Elliott	
	A Flexible Framework for High-Resolution Vehicle Emission Inventories in Data-Rich and Data-Limited Canadian Cities Mina Jamshidi Kalajahi, Bijoy Saha, Madhawa Premasiri, Mahmudur Fatmi, Naomi Zimmerman	Optimizing a Dense Urban Area Bus Network with a Genetic Algorithm Gabriel Lefebvre-Ropars, Pierre-Léo Bourbonnais, Geneviève Bastien, Yannick Brosseau, Anjeli Narrainen, Simon Hamelin-Pratte, Catherine Plouffe, Julian Villafuerte Diaz, Catherine Morency	Canada Wants to Diversify its Trade: The Answer May Be in the Air Sameer Esmail, Jody Kositsky	The State of Practice in Validation of Risk Models in The Railway Application Area Parastoo Azad, Floris Goerlandt	
	Modeling Pedestrian Exposure to Traffic Related PM2.5 Azam Khan, Ahsan Habib	Optimal Hydrogen Production and Inter-Depots Logistics for Fuel Cell Electric Bus Transit Systems Yasser Kashwaa, Ahmed Foda, Moataz Mohamed	Knowledge and Perceptions Across Canadian Air Travellers and Non-travellers – A Cross-sectional Survey Study Emma Neale	Assessing the Transferability of a Port-Based Coordination Taxonomy to Maritime Accident Investigation Elvira Meléndez, Floris Goerlandt	
	Enforcing IMO GHG Regulations: Implications of Goal-Based Regulatory Strategies Sylvia Xinyue Zhang	Doing More with Less: Leveraging Interlining for Efficient Electric Bus Deployment Kareem Othman, Amer Shalaby	Remotely-Piloted Aircraft Systems (RPAS) in Cross-Border Specialty Air Services Dean Corno, Marc Rioux	Maritime Search and Rescue Vessels Location-Allocation Problem with a Cost-Effectiveness Measure Alireza Forouzangohar, Ronald Pelot	
12:00 pm – 12:30 pm	Lunch Location: Admiral’s Room Sponsor: McMillan				

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DAY TWO		Monday, May 25, 2026			
12:30 pm – 1:30 pm	Plenary II: Presentation from CTRF VP of Research (Trevor Hanson) and the Research Committees “CTRF Research Vision and Priorities for 2026/27” Location: Admiral’s Room Moderator: Sarah Harlley				
1:30 pm – 2:30 pm	Session 2.1 Ride-Hailing, TNCs & Shared Mobility	Session 2.2 Autonomous & AI-Based Modeling	Session 2.3 Intercity & High-Speed Rail in Canada	Session 2.4 Maritime & Marine Transportation issues	
	Location: Navigator	Location: Admiral’s South	Location: Compass B	Location: Compass C	
	Chair: Eric J. Miller	Chair: Yu Sui	Chair: Barry Prentice	Chair: Mary Brooks	
	Modelling Transit Ride-hailing Access Egress Ya Gao, Colin Ye, Eric J. Miller	Astra: A Behaviourally Rich Hybrid Transformer-LSTM Engine Mostaq Ahmed, Mahmudur Rahman Fatmi	Is there a Case for High-Speed Rail in Canada? Sundar Damodaran	The Canadian Commercial Marine Industry: New Data to Assess Supply Chain Challenges Zahra Aback and Lawrence McKeown	
	Managing Ride-Hailing Supply: An Agent-Based Assessment of Fleet Caps and Fare Regulations Using Toronto’s Regulatory Data Shuoyan Xu, Ya Gao, Eric J. Miller	City-Scale Spatio-Temporal Ride-Hailing Demand Forecasting with Deep Learning Jing Li, Kang Tang, Harith Abdulsattar, Hao Yang	The High-Speed Rail Project Between Québec City and Toronto: Issues and Recommendations Jacques Roy, Jean Mercier, Pierre Filion	Eco navigation: Comparative Analysis of Fuel Consumption by Short-Distance Ferries Marianne Pedneault-Gagnon, Pierre Miasnikof, Julien Lépine	
	Spatial Analysis of Ride-hailing and Public Transit Competition with Explainable AI Xinghua Liu, Bobin Wang, Xun Ji, Jing Fan, Xuan Shao	Performance Evaluation of an AI-Based Vehicle Classification Camera Janak Kharel, Phani Kumar Patnala, Alex Rogers, Jonathan D. Regehr, Babak Mehran	Financing High-Speed Rail: Global Successes, Failures, and Policy Lessons Alistair Bell	Developing a Province-Wide Agent-Based Travel Demand Model for Nova Scotia with a Core-Satellite Structure Vajeeran Arunakirinathan, Muhammad Ahsanul Habib	
	Concurrent Sessions				
2:30 pm – 3:30 pm	CTRF Research Committee Meetings				
3:30 pm – 3:45pm	Coffee Break & Networking Location: Four Points Foyer				

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DAY TWO		Monday, May 25, 2026			
3:45 pm – 5:30 pm Concurrent Sessions	Session 3.1 Travel Demand Modeling & Transferability	Session 3.2 Housing, Land Use & Mobility	Session 3.3 Northern & Remote Infrastructure Development	Session 3.4 Freight, Supply Chain & Logistics Sponsor: Freight Management Association of Canada	
	Location: Navigator	Location: Admiral’s South	Location: Compass B	Location: Compass C	
	Chair: Eric J. Miller	Chair: Catherine Morency	Chair: Don McKnight	Chair: Julien Lépine	
	Prospects for Activity-Based Travel Model Transferability Eric J. Miller, Yu Zhang	Intercity Mobility in Quebec: Portrait of Current Travel Demand and Supply and Evaluation of Sustainable Transportation Options in Major Corridors Hamed Malekzadeh, Catherine Morency	The Ring of Fire in Northern Ontario: Future Prospects and Developments Malcolm Cairns	Market Potential of Personal and Commercial Zero-emission Vehicles in Ontario Ahmed Foda, Ali Shehabeldeen, Moataz Mohamed	
	Modelling Commuter Bus Service & Demand: A Toronto Case Study Grace Zhang, Eric J. Miller	Joint Modeling of Housing Choice, Telework Participation, and Teleworking Duration Fatin Anzum Khan, Xinming Li, Ahsan Habib	Sharing to Adapt: The Power of Knowledge Management in Arctic Navigation Safety Camille Audet, Anne Fauré	Out of Sight, Out of Mind: Optimizing the Forgotten Supply Chain of Farm Waste Supul Muhandiram, Narendra Malalgoda, Srimantoorao S. Appadoo	
	Generating a Synthetic Weeklong Travel Diary Using a One-Day Sample And 7-Day Sub Sample Imrul Shafie, Mahmudur Fatmi	Linking Environmental and Financial Costs of Housing and Daily Mobility Mathilde Zanolini, Catherine Morency	The Influence of Weather and Ice on Ferry Cancellations: Modeling Present-Day Effects to Predict Future Trends Andrew Sargeant, Ronald Pelot, Alireza Ghasemi	Warehouse Location Choice Modelling with Supply Chain and Intra-Firm Interactions: A Case Study of the Greater Golden Horseshoe Usman Ahmed, Carlos Rivera-Gonzalez, Matthew J. Roorda	
	Inter-Household Carpool Modelling in an Agent-Based Travel Demand Model Ya Gao, Lai Ying (Coco) Lam, Eric J. Miller	Why Workers Change Jobs: A Reason-Based Job Duration Model Md Nobinur Rahman, Mahmudur Rahman Fatmi, Muntahith Mehadil Orvin	Research on Dynamic Traffic Assignment on Urban Traffic under Extreme Weather Xun Ji, Bobin Wang, Owen Waygood	Logistics of Urban Monitoring with Moving Sensors Amir Ahmadian, Mehdi Nourinejad, Matthew Roorda	

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DAY TWO		Monday, May 25, 2026		
	A Framework for Modelling Dependent-serving Activity/Travel Behaviour Eric J. Miller, Usman Ahmed	2025 Canada-U.S. Travel Demand in Review: Are all Modes Created Equal? Sameer Esmail, Julien Carron		Learning Route Practicality from Pickup-and-Delivery Operations Hesam Rashidi, Serbo Dimic, Dariusz Grabka, Matthew Roorda
6:00 pm – 9:00 pm	Reception & Bison Debate <i>Location: Paul O'Regan Hall, Central Library</i> Moderator: Barry Prentice & Chris Bachmann Sponsor: CPCS			

DAY THREE		Tuesday, May 26, 2026	
7:30 am – 8:00 am	CTRF Annual General Meeting <i>Location: Admiral’s Room</i>		
8:30 am – 10:00 am	Plenary III: Ports and the Future of Canada’s Supply Chain Resilience Panel <i>Location: Admiral’s Room</i> Moderator: James Frost, MariNova Consulting Panelists: David Thomas, Executive Director, the PIER Levi Morrison, Director of Innovation, COVE Michael Snow, Director of Supply Chain, Irving Shipbuilding Thomas Puestow, Stakeholder Engagement Lead, National Research Council of Canada – Ocean Programs		
10:00 am – 10:30am	Coffee Break & Networking <i>Location: Four Points Foyer</i>		

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DAY THREE		Tuesday, May 26, 2026			
10:30 am - 12:30 pm Concurrent Sessions	Session 4.1 Urban Form, Street Space & Curb Management	Session 4.2 Transportation Planning Practice & Tools	Session 4.3 Multimodal & National Transportation Capacity Sponsor: InterVISTAS	Session 4.4 Survey Methods & Behavioral Modeling	
	Location: Navigator	Location: Admiral’s South	Location: Compass B	Location: Compass C	
	Chair: Dimantha De Silva	Chair: Anson Lau	Chair: Julien Lépine	Chair: Don McKnight	
	Who Gets the Curb? A Systematic Review of Responsive Curb Management Research Elham Heydari-Gharaei	An Interactive Visualization and Scenario-Building Framework for Integrated Urban Microsimulation Models Md Asif Hasan Anik, Adi Sahota, Venkata Vijaya Mandapati, Muhammad Ahsanul Habib	A multimodal framework for assessing transportation capacity in Canada Daniel Saladini	Elicited Choice Probability to Account for Uncertainty in Survey Responses Alexander Bigazzi, Amir Hassanpour	
	Demand-Seeking or Demand Avoiding? A Functional Classification of Taxi Driver Behaviour Mahin Alam, Faisal Bilal Memon, Yong Hoon Kim	A New Tool to Help Households, Governments, and Businesses Make Better-Informed Location Decisions Yannick Brosseau, Bitá Farokhian, Gabriel Bruno, Geneviève Bastien, Pierre-Léo Bourbonnais, Samuel, Duhaime-Morissette, Catherine Morency	The Important Regulatory Developments in Canadian Transportation in 2024 And 2025 Joseph Monteiro, Mark Hemmes, Barry E. Prentice	Analyzing Respondent Behavior in Travel Surveys Using Paradata: Insights from Provincial and Regional Surveys Genevieve Bastien, Samuel Duhaime-Morissette, Pierre-Léo Bourbonnais, Adlène Hamza, Catherine Morency	
	Modeling Offer-Acceptance Behavior of Food-Delivery Crowd Shippers Azin Golrizkhatami, Chi-Guhn Lee, Matthew J. Roorda	Planning for Transportation Success: Developing a Maturity Assessment Model Trevor Hanson, Apoorva Rathod	Is It Time for a National Air Accessibility Strategy? Sonya Sula	Increasing Survey Data Variability through the Merging of Historical Survey Data Hubert Verreault, Catherine Morency	

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DAY THREE		Tuesday, May 26, 2026		
	The Feasibility of Sustainability: Developing a Sketch Plan Approach to Assess the Impacts of Sustainable Transportation Policies of Post-Secondary Institutions on Transit Services in Small Towns Daniel Higdon	Using OpenStreetMap as a Data Source for Transportation Research Yannick Brosseau, Pierre-Léo Bourbonnais, Geneviève Bastien, Catherine Morency	Canadian Railway Performance: Recent Trends and Emerging Challenges Yu Sui, Lawrence McKeown	Systematic Method for the Multifunctional Allocation of Street Space Simon Brassard, Catherine Morency
	Impact of EV Penetration and Ridesharing on the Energy and Operational Efficiency of Mixed BEV-ICEV Autonomous Fleets Kang Tang, Jing Li, Harith Abdulsattar, and Hao Yang, Jinghui Wang	Infrastructure Deferral in Cost Benefit Analyses: An Approach to Contextualizing and Broadening the Impacts of an Infrastructure Investment on the Wider Transportation Market Sarah Harlley, Adam Rosenblum	A Decade to Deliver: Policy Choices in Canada's Export Diversification Strategy Jonathan Thibault, Olivia Russo	Supply-Demand Interactions Across Multimodal Transportation Networks Bitra Farokhian, Catherine Morency
12:30 pm – 1:00 pm	Box Lunch Pick-up <i>Location: Admiral's North</i>			
1:00 pm – 1:30 pm	CTRF Technical Tours			
	Search and Rescue Demonstration <i>Location: "The Passage" (section of the Halifax Boardwalk) – All Technical Tours Starting Point</i> Provided by: Canadian Coast Guard			
1:30 pm – 3:30 pm	Technical Tour #1 Cogswell District Provided by: Halifax Regional Municipality	Technical Tour #2 Spring Garden Road Provided by: Halifax Regional Municipality	Technical Tour #3 DalTRAC Living Lab Provided by: Dalhousie Transportation Collaboratory	
Concurrent Tours	Technical Tour #4 Halifax Transit Ferry Tour Provided by: Halifax Regional Municipality	Technical Tour #5 Halifax Waterfront Tour Provided by: Build Nova Scotia	Technical Tour #6 Irving Shipyard Provided by: Irving Shipbuilding Inc.	

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DAY THREE		Tuesday, May 26, 2026
3:30 pm – 5:00 pm	Exhibition Hall Open with Young Professionals Panel: “The Role of Research in Early Stages of Professional Career” <i>Location: Admiral's Room</i> Moderator: Alistair Bell Panelists: Alexi Katsanis, PhD (Link NS), Sonya Sula (InterVISTAS), Md Asif Hasan Anik, PhD (Dalhousie) CTRF 2026 Poster Session – All presenters stand by posters following Panel Coffee & refreshments provided	
6:00 pm – 9:30 pm	Annual Conference Dinner on the Harbour Queen <i>Location: Meet in Maritime Centre Lobby by 5:30 pm</i> Sponsor: The Pier / Port of Halifax	

DAY FOUR		Wednesday, May 27, 2026		
7:00 am – 8:30 am	Continental Breakfast <i>Location: Four Points Foyer</i>			
7:30 am – 8:30 am	CTRF Board Meeting <i>Location: Admiral’s South</i>			
8:30 am – 10:15 am Concurrent Sessions	CTRF Technical Workshops			
	Location: Navigator	Location: Admiral’s South	Location: Compass	
	<i>Moderator: Julien Lépine</i>	<i>Moderators: Eric Miller, Ahsan Habib, and Mahmud</i>	<i>Moderator: Catherine Morency</i>	
	Workshop #1: The Future of Canadian Trucking – How to bring Together Industry Needs, Government Policies, and Research By: CTRF Trucking Committee	Workshop #2: Transferability of Travel Models: Challenges & Opportunities By: CTRF Urban and Rural Transportation Planning and Modelling committee	Workshop #3: Insights from the Previous ISCTSC Conference and Recent Surveys/Tools By: CTRF Data Committee	
10:00 am – 10:15 am	Coffee Break & Networking <i>Location: Four Points Foyer</i>			

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DAY FOUR		Wednesday, May 27, 2026			
10:15 am – 12:30 pm Concurrent Sessions	Session 5.1 Urban Mobility & Travel Behavior Modelling Tools	Session 5.2 Transforming Transportation Systems	Session 5.3 E-Bikes, Active Travel & Well-Being	Session 5.4 Accessibility & Equity	
	Location: Navigator	Location: Admiral's South	Location: Compass B	Location: Compass C	
	Chair: Mahin Alam	Chair: Barry Prentice	Chair: Catherine Morency	Chair: Larry McKeown	
	Desire Line Trajectory Clustering: A Performance-Optimized Parallel Rust Implementation Léonard Pouliot, Yannick Brosseau, Catherine Morency	Towards Better: How are and How Should Transportation Infrastructure and Services Be Funded? A Case Study of Ontario, Canada Victor Copetti, Matthias Sweet, Murtaza Haider	Worth the Wait? What a 2-year Waitlist Reveals about the Effects of E-Bike Purchase Rebates Alexander Bigazzi, Polina Polikakhina, Kyla Yu, Amir Hassanpour	Advancing Equitable Transport Planning in Low-density Areas: Indicators of Accessibility to Key Destinations via Regional Public Transport Frédéric Cournoyer, Célestin Sitbon, Laurence Letarte, Martin Trépanier, Geneviève Boisjoly	
	Leveraging Household Travel Survey Mode Frequency Data and Built Environment Indicators Jérémy Gelb, Chris Harding, Hamzeh Alizadeh	Market Liberalisation and the Distribution of Economic Welfare: The Case of Air Service Agreements William G. Morrison	An Analysis of the Connection Between Mental Well-Being and Active Travel Laura Weli, Adam Weiss	Comparing Accessibility Indicators: Methodological Divergence and Equity Implications Juan Esteban Sánchez-Gómez, Frédéric Cournoyer, Kevin Manaugh, Geneviève Boisjoly	
	Speed Profiling and Bottleneck Analysis Using Crowdsourced Traffic Data Dimantha De Silva, Ashok Kinjarapu	Understanding Network Resilience through Critical Link and Redundancy Analysis Anson Lau	Simulating Cycling Network Growth Under Multiple Planning Objectives Loïc Miara, Catherine Morency	Spatial Access and Modal Share Analysis: Exploring Equity and Infrastructure in Montreal Jean Pamphile, Yanick Clément-Godbout	
	Developing an Integrated Machine Learning and Parametric Duration Modelling Approach for Firm Survival: Assessment of Firm-Specific Survival Risk and Spatial Determinants Niaz Mahmud, Muhammad Ahsanul Habib	Quantifying the Benefits of Car Ownership Reduction Caused by Carsharing Émilie Savard, Martin Trépanier, Catherine Morency	Study of Station Usage Patterns to Inform Bikeshare Network Development Alexander Becker, Catherine Morency	Gender Differences in Public Transportation Trip Components in Montréal Maxwell Francis White, Andrés Henao, Martin Trépanier, Geneviève Boisjoly	

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DAY FOUR		Wednesday, May 27, 2026			
	Assessing the Impacts of Introducing Autonomous Transit Services for a Mid-Sized Canadian City Uthpalee Hewage, Mahmudur Rahman Fatmi, Shoumic Shahid Chowdhury, Bijoy Saha	Localized Strategies to Reduce Traffic-Related Air Pollution from Freight Transportation Hotspots: A Mixed-Methods Approach Jasmine Sharifi	Shaping Mobility Futures: Unlocking MAAS Potential through Policy and Behavioural Drivers Wilson Wellington Biney, Osama Abdul Hafeez, Nelson Wellington, Biney Abimbola, Grace Oyeyi	Early Impacts of the REM On Accessibility and Travel Behaviour in Montréal Vincent Chabin, Jérémy Gelb, Imed Essid, Hamzeh Alizadeh	
	Staged Capacity Expansion of Urban Air Mobility Vertiports Using Embedded Flexibility Faisal Bilal Memon, Mahin Alam, Yong Hoon Kim	Quantifying Station Area Growth: A Difference-In-Difference Analysis of Population and Housing Density Near New Rapid Transit Stops in Waterloo Ash Ridsdale	Walking Access to Transit: Entry-Line Options and Rider Captivity Mehdi Hamdaoui, Catherine Morency	Analysis of Vehicle-Pedestrian Interactions at Intersections: Comparison Between Autonomous and Human-Driven Vehicles Ayomiposi Adewale, Chris Lee	
12:30 pm – 2:00 pm	Awards Lunch and Closing Remarks <i>Location: Admiral's Room</i> <i>Moderators: Ahsan Habib and Sarah Harlley</i> Research Outcomes of the 61st Annual Conference – Trevor Hanson, VP Research Preview of 2027 Montreal Conference – Adrian Lightstone, President, CTRF Best Paper Award Sponsor: Transport Canada				