



58th Annual CTRF Conference May 7-10, 2023

Hyatt Regency, Toronto, ON

Getting Back on Course: Transportation and Supply Chains in an Uncertain World

DAY ONE		Sunday, May 7, 2023
4:30 pm	Registration Desk Opens	
6:00 pm	President's Reception Sponsor: Hamilton Oshawa Port Authority Regency DE	
DAY TWO		Monday, May 8, 2023
7:00 am	Registration Desk Opens	
7:00 am	Breakfast Buffet Opens	
8:00 am	Welcome remarks and announcements – Steve Pratte, President, CTRF	
8:15 am - 10:00 am	Plenary I: View from the Deck - Great Lakes and Seaway Shipping Regency ABC Moderator James Frost, MariNova Consulting Ltd. Panelists Gina Delle Rose-Ash, Hamilton Oshawa Port Authority Debbie Murray, Association of Canadian Port Authorities John Schmidt, Great Lakes St. Lawrence Governors & Premiers Bruce Hodgson, St. Lawrence Seaway Management Corporation	

10:00 am	Coffee Break & Networking Sponsor: Port of Montreal		
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10:15 am - 12:00 pm Concurrent Sessions	Session 1.1 Commercial, Regulatory and Legal I	Session 1.2 Inclusive and Accessible Transportation I	Session 1.3 Parking and Curbside Management
	<i>Regency ABC</i>	<i>Regency D</i>	<i>Regency E</i>
	<i>Chair: Joel Carlson</i>	<i>Chair: Garland Chow</i>	<i>Chair: Robin Lindsey</i>
	Commercial insurance for trucking in North America a truckers' nightmare? <i>Andrew Tam</i>	Development of the translink equity evaluation framework for transport 2050: 10-year priorities <i>Boer Cui, Alec Knowles, Chelsea Gurr, Fearghal King, Nicole Geitebruegge, Marisa Espinosa</i>	Curb complexities: Evaluating curbside management potential in Canadian cities <i>Dave Attema, Clarence Woudsma</i>
	Railway freight rates – international comparison <i>Veiko Parming, Joseph F. Schulman</i>	Factors influencing the use of ride-sourcing by people with mobility impairments: The case of Metro Vancouver Region <i>Felita Ong, Patrick Loa, Khandker Nurul Habib</i>	Parking pricing: an analysis of dynamic parking pricing pilots <i>Wenhan Luo</i>
	Merger of Canadian Pacific and Kansas City Southern Railways Final Report <i>Malcolm Cairns</i>	A generative design tool for designing complete communities <i>Gonzalo Martínez Santos, Sara Wagner, David Kossowsky, Dr. Sara Diamond, Dr. Matthew Roorda</i>	Parking occupancy detection using dash cams <i>Elham Heydarigharai, Mehdi Nourinejad</i>
		Rethinking benefit measures in transportation decision-making: What are we missing and approaches for addressing the gaps <i>Anna Robak, Trevor Hanson</i>	A comparison of parking behaviours of delivery trucks and e-cargo tricycles <i>Farah Ghizzawi, Usman Ahmed, Matthew J. Roorda</i>

12:00 pm - 1:45 pm	Lunch with Keynote Speaker <i>Jonathan Lebi, Assistant Deputy Minister, Ministry of Transportation, Ontario</i> Regency ABC
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1:45 pm - 3:15 pm Concurrent Sessions	Session 2.1 Urban Transit I	Session 2.2 Air Transportation I	Session 2.3 Transportation Modelling I
	<i>Regency ABC</i>	<i>Regency D</i>	<i>Regency E</i>
	<i>Chair: Robin Lindsey</i>	<i>Chair: Mark Hemmes</i>	<i>Chair: Mahmudur Fatmi</i>
	Evaluating transit reliability issues: Comparing travel time and travel speed approaches <i>Yuxuan Wang, Catherine Morency, Martin Trépanier</i>	Economics of cargo airships and potential applications <i>Barry E. Prentice and Narendra Malalgoda</i>	Who are on the urban expressway? An exploratory analysis between two passenger vehicle usage patterns based on the panel binomial logistic regression model <i>Jihao Deng, Chris Bachmann, Lei Gao, Qiangqiang Shangguan</i>
	A systematic vulnerability analysis: comparing the impact of random and targeted disruptions in urban metro networks <i>Kaveh Rezvani Dehaghani, Catherine Morency</i>	How airport forecasting and planning can be more robust to shock events <i>Jody Kositsky, Christopher Greer, Ian Kincaid</i>	Multi-Transfer Point selection in multimodal trip planning <i>Ghazaleh Mohseni Hosseinabadi, Mehdi Nourinejad, Peter Park</i>
	Unlocking the potential of dynamic bus lanes for better corridor performance: Exploring the benefits at different traffic compliance rates <i>Kareem Othman, Amer Shalaby, Baher Abdulhai</i>	Truck-and-drone last-mile delivery planning tool: A conceptual framework <i>Bahar D Viniche, Mehdi Nourinejad</i>	Week-long activity-based modelling: A review of the existing models and datasets and a comprehensive conceptual framework <i>Mohammad Haghighi, Eric J. Miller</i>
			Investigating prospective travel behavior of individuals using a pseudo-panel approach <i>Hamed Malekzadeh, Catherine Morency</i>
3:15 pm	Coffee Break & Networking Sponsor: CPCS		

3:30 pm - 5:15 pm Concurrent Sessions	Session 3.1 Urban Freight I	Session 3.2 Supply Chains	Session 3.3 Safety and Disruption
	<i>Regency E</i>	<i>Regency D</i>	<i>Regency ABC</i>
	<i>Chair: William Denning</i>	<i>Chair: Malcolm Cairns</i>	<i>Chair: Mark Hemmes</i>
	A green last-mile delivery system using public transit: A case study on Winnipeg Pratyay Datta, Arifin Zaman, Francisco Baltodano, Narendra Malalgoda	Inter-provincial trade, Ontario and transportation: Past, present and future Andrew Tam	Preemptive and Reactive Resource Allocation in Emergency Response Ali Khaksar, Mehdi Nourinejad, Peter Park
	Industrial and beyond: Exploring logistics spaces in the post-pandemic city Clarence Woudsma	Strengthening all links: Building more resilient, fluid supply chains in Canada Jonathan Thibault	Effects of road geometry on car-following behaviours and collision risk of human-driven vehicles and autonomous vehicles in a vehicle platoon Ayobami Adewale, Chris Lee
	Commercial Travel Survey: Insights of urban goods movement in the GTHA Usman Ahmed, Tho V. Le, Matthew J. Roorda	Supply chain challenges in Canada: Recent trends in transportation and warehousing Lawrence McKeown, Zahra Aback	
6:00 pm - 7:30 pm	A freight data repository as a foundational pillar for sustainable urban freight research Carlos Rivera-Gonzalez, Ziang Feng, Hasan Bayanouni, Kevin Carr, Matthew Roorda		
	Bison Transport Reception & Debate Hart House – University of Toronto Sponsor: Bison Transport This House Resolves That Sales of Electric Vehicles Should Not Be Subsidized in Canada Incumbents: Trevor Hanson & Anna Robak ~ Challengers: Vijay Gill & Gord Baldwin		

DAY THREE		Tuesday, May 9, 2023		
7:30 am	Registration Desk Opens			
7:30 am	Breakfast Buffet & CTRF Annual General Meeting			
8:30 am - 10:15 am	Plenary II: Getting Back on Track: Regional and Intercity Rail Regency ABC Moderator Adrian Lightstone, CPCS Transcom Ltd. Panelists Jake Schabas, Metrolinx Michael Acosta, VIA Rail Guillaume Marbach, ONxpress			
10:15 am	Coffee Break & Networking Sponsor: Smart Freight Centre			
10:30 am - 12:00 pm Concurrent Sessions	Session 4.1 Urban Transit II	Session 4.2 Transportation Modelling II	Session 4.3 Electric Vehicles	
	Regency ABC	Regency D	Regency E	
	Chair: Garland Chow	Chair: Anna Robak	Chair: Larry McKeown	
	An economic assessment of the proposed rapid transit line extension in Vancouver to UBC Adelia Vu, Robin Lindsey	Agent-Based microsimulation of activity & travel: Canadian operational implementation experience Eric J. Miller, Mausam Duggal	The emergence of electric vehicles in Canada: Prevalence and factors that influence adoption Lawrence McKeown, Amanda Holmes	
	Have the determinants of bike-share demand changed in response to the covid-19 pandemic? A machine learning-based approach Sanjana Hossain, Patrick Loa, Felita Ong, Yicong Liu, and Khandker Nurul Habib	Temporal transferability analysis of trip distribution models considering urban development patterns: The case of Shiraz Mohammad Haghighi, Yousef Shafahi	Identify the Locations for Electric Vehicle Charging Stations Utilizing Multi Criteria Decision Analysis (MCDA) Approach Palmer Lumb, Hasan Shahrier, Muhammad Habib	

	Understanding the interactions between taxi and transit: The case of Montreal <i>Catherine Morency, Hubert Verreault, Jean-Simon Bourdeau</i>	Modeling vehicle type choice decisions within an integrated urban transportation modeling framework <i>Md Shahadat Hossain, Mahmudur Fatmi, Annesha Enam</i>	Changing batteries or adding charging stations: optimizing electric bus charging infrastructure life cycle with battery degradation <i>Ali Shehabeldeen, Ahmed Foda, Moataz Mohamed</i>
		A Tale of Two Bridges: Using the 4-step model to understand Active Transportation usage across the St. John River/Wolastoq in Fredericton, NB <i>Kristen Burns, Trevor Hanson</i>	
12:00 pm - 1:30 pm	Lunch with Keynote Speaker <i>Monette Pasher, President, Canadian Airports Council</i> <i>Regency ABC</i>		
2:30 pm - 5:30 pm	Technical Tours	1. Billy Bishop Toronto City Airport 2. Canada Post’s South Central Letter Processing Plant 3. University Health Network, KITE Research Institute 4. Toronto Transit Commission, Leslie Streetcar Barns 5. Metrolinx, Davenport Diamond	
6:30 pm - 9:30 pm	Annual Conference Dinner Sponsor: Canadian Canola Growers Association <i>Hyatt Regency - King Ballroom II</i>		

DAY FOUR		Wednesday, May 10, 2023		
7:30 am	Registration Desk Opens			
7:30 am	Breakfast Buffet			
8:30 am - 10:15 am Concurrent Sessions	Session 5.1 Student	Session 5.2 Connected and Automated Vehicles	Session 5.3 Commercial Regulatory and Legal II	
	Regency E	Regency D	Regency ABC	
	Chair: Trevor Hanson	Chair: Anna Robak	Chair: William Denning	
	The impact of electricity outage on e-bus operational robustness: An assessment framework Ahmed Foda, Hatem Abdelaty, Moataz Mohamed	Automatically assessing the need for traffic signal retiming using connected vehicle data Pirooz Ghaleh, Christian Bachmann, Liping Fu	Recent Canadian legal developments of interest to the marine transportation industry relating to renewable energy and energy transition Julia Loney, Joanna Dawson	
	Examining preferences towards virtual activities over in-person activities: an ordered logit modelling approach Md Asif Hasan Anik, Muhammad Ahsanul Habib	Optimal automated vehicle piloting: Avoiding perfection being the enemy of the good Joshua Dhaness, Mehdi Nourinejad, Sina Bahrami	Policy, regulatory reform and grain hopper cars: Bill C-11 and the “one time hopper car adjustment” Steve Pratte	
	Microsimulating the Residential Location Component of an Integrated Urban Model: Validating and Testing for COVID-19 Muntahith Orvin, Mahmudur Fatmi, Mohamad Khalil	Autonomous vehicles: An analysis of Canadian regulations and pilot design Joshua Dhaness, Mehdi Nourinejad, Sina Bahrami	Recent developments in conference-consortia legislation Joseph Monteiro and Grace Castelino	
	How will activity participation change in the COVID-19 post-pandemic period? A Wilcoxon Signed Rank Test Approach Md Asif Hasan Anik, Fariba Hossain, Muhammad Ahsanul Habib			
10:15 am	Coffee Break & Networking Sponsor: St. Lawrence Seaway Management Corporation			

10:30 am - 12:15 pm Concurrent Sessions	Session 6.1 Ports and Marine	Session 6.2 Transportation Modelling III	Session 6.3 Air Transportation II
	<i>Regency ABC</i>	<i>Regency D</i>	<i>Regency E</i>
	<i>Chair: Joel Carlson</i>	<i>Chair: Mark Hemmes</i>	<i>Chair: Larry McKeown</i>
	Revisiting port demand prediction methods: a case study for the Port of Hamilton <i>Siyavash Filom, Saiedeh Razavi</i>	Developing component of an agent based integrated urban model: a comparison between logistic regression and machine learning techniques <i>Mohamad Ali Khalil, Mahmudur Rahman Fatmi, Muntahith Orvin</i>	Should I stay or should I go? Canadian long-distance travel patterns during COVID-19 <i>Lawrence McKeown, Aya Hagag, Josiah Jarvenpaa</i>
	A theoretical discussion on ports' climate adaptation strategies and planning <i>Adolf K.Y. Ng, Mark CP Poo, Tianni Wang, Austin Becker, Yui-yip (Joseph) Lau</i>	Modelling destination, departure time and travel mode choice decisions of telecommuters, non-telecommuters and non-workers <i>Bijoy Saha, Nazmul Arefin Khan, Mahmudur Rahman Fatmi</i>	Airship Logistics Circuit for Arctic Security and Resupply <i>Barry Prentice, Norm Normand</i>
	Optimization of the speed of merchant ships in a context of instability <i>Alain Richard</i>	Graph neural networks for freight transportation and logistics application: A comprehensive review <i>Renuka Mandlik, Saiedeh Razavi, Susan Tighe</i>	Impact of legislative restrictions on drone delivery <i>Shamik Pushkar, Elkafi Hassini</i>
12:30 pm - 2:00 pm	Alliances, mergers, competition issues and recent developments in ocean shipping <i>Joseph Monteiro, Sanjay Castelino and Grace Castelino</i>	Operational planning for health transport of older adults in New Brunswick <i>Barry Riordon, Trevor Hanson</i>	Technologies and Future of Universal Access for Air Passengers <i>Kirk Goodlet, Solomon Wong</i>
	Awards Lunch and Closing Remarks — Steve Pratte, President, CTRF Best Paper Award Sponsor: Railway Association of Canada <i>Regency ABC</i>		