

Canadian Urban Transit National Research & Innovation Forum
Consortium de recherche et d'innovation en transport urbain au Canada

Draft Schedule

8:00 – 9:00 Continental breakfast and on-site registration				
TIME	Speaker	Presentation	Organization	#
9:00 - 9:05	Josipa Petronic	Welcome and opening remarks	CUTRIC CRITUC	
9:05 - 9:10	Michel Dumoulin	Manager, Automotive & Surface Transportation Group	NRC CNRC	
9:10 - 9:15	TBA	TBA	Province of Ontario	
9:15 - 9:25	Philippe Molaret	Welcome on behalf of CUTRIC Industry	Thales Inc	
9:25 - 9:35	Federal Member of Parliament, Ms. Pam Damoff (Oakville-North Burlington)	Welcome on behalf of Government of Canada	CANADA	
9:35 - 9:55	Josipa Petronic	Pan-Ontario Electric Bus Demonstration and Integration Trial Study	CUTRIC and	
9:55 - 10:01	Nicole Arsenault	York University - Electric Bus Demonstration & Integration Trial Study	York University	1
10:01 - 10:07	Ron Groves	The Pan-Ontario Electric Bus Demonstration & Integration Trial Study	Plug'n Drive	2
10:07 - 10:13	Charles Ker	Natural Gas Near Zero (NGNZ) Transit Repower Demonstration Project	Cummins Westport	3
10:13 - 10:19	Wayne Blenkhorn	CNG/RNG Rural Green Energy	Faromor	4
10:19 - 10:25	Lewis Reford	PV-rooftop bus maintenance-charging depot project	Solar Ship	5
10:25 - 10:31	Amir Khajepour	New Generation of Electric Urban Vehicles: Design, Development, Demonstration	University of Waterloo	6
10:31 - 10:37	Shiva Vencat	Hybrid-Hydrogen-Electric bus development	Symbiofcell	7
10:37 - 10:43	Bob Oliver	H2GO – Demonstrating Hydrogen Fuel Cell-Powered Commuter Rail	Hydrogenics Corp.	8



THALES



1. Low & Zero Emissions Vehicular and Infrastructure Innovation				2. Lightweight materials & processes template	3. Autonomous Connected Vehicles	4. Cyber & Critical System Security	5. Big Data & Analytics
Powertrain	Infrastructure	Demonstration	Other				

10:43 - 10:49		General Questions		
10:49 - 11:04		Coffee break		
11:04 - 11:10	Peter Crockett	Oxford County Electric Vehicle Accessibility Plan (EVAP) – Optimizing Electric Vehicle Charging Equipment in a rural/urban landscape	County of Oxford	9
11:10 - 11:16	Walter Merida	Low carbon refueling infrastructure: Electrical and hydrogen infrastructure design, operation, optimization, manufacture, and cost reduction	University of British Columbia CERC	10
11:16 - 11:22	Ritchie Murray	Natural Gas Vehicle Bus Evaluation Tool (NGV-BET)	Enbridge Gas	11
11:22 - 11:28	Curran Crawford	Opportunities and Challenges of Battery Electric and Renewable Fuel Bus Fleets	University of Victoria	12
11:28 - 11:34	Hossam Gaber	Flywheel Energy Storage Platform (FESP) for Energy Efficient Transportation Buses with Trip Route and Charging Station Management	UOIT	13
11:34 - 11:40	Ryan Janzen	Thermally-Stable Drive Systems for Ultra-High-Speed Transportation in a Low-Vacuum Environment	Transpod Inc.	14
11:40 - 11:46	Patrick Sweet/Corinne Sands	Monorail Access Improvement for Persons with Reduced Mobility	Bombardier	15
11:46 - 11:52		General Questions		
11:52 - 11:58	Paul Goossens	Development of Advanced Vehicle Component Library for Simulation of Electric Vehicles	Maplesoft	16
11:58 - 12:13	Benoit Boulet	Development of: Multispeed Electric Drivetrains for Electrification of Trucks and Buses; an Electric Drayage Truck; a Class 8 Electric Truck for Inter-City Transportation	McGill University	17
12:13 - 12:19	Xianguo Li	Development of low cost, highly performing and durable PEM fuel cells with high power density	University of Waterloo	18

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12:19 - 12:25	Shanna Knights	Low Life Cycle Cost Durable and Reliable Fuel Cells for Transit Bus Systems			Ballard	19	
12:25 - 12:31	Shanna Knights	Accelerating the Development of a Commercial Fuel Cell Module for Transit Buses			Ballard	20	
12:31 - 12:37	Anthony Hardenne	Magnetic Flux Concentrator Process Development			ATES	21	
12:37 - 12:43	Jim Harvey	Reducing fuel consumption and emissions of Internal Combustion Engines (ICE) by 30%.			Capella Aerospace	22	
12:43 - 12:49	Praveen Jain	Integrated compact power electronics modules for electric cars			Queen's University	23	
12:49 - 12:55	Scott Finlayson	Development of a Magnetically Optimized Linear Induction Motor (LIM)			Bombardier	24	
12:55 - 13:01	Dan Singh	Electric Bus Retrofit Project			Epic Car Conversions Ltd.	25	
13:01 - 13:07	Zuomin Dong	Hardware in Loop Testing Platform for Electric, Hybrid Electric and Natural Gas Hybrid Electric Bus Drivetrains and Hybrid Energy Storage Systems			University of Victoria	26	
13:07 - 13:13	Justin Gammage	Public Urban Reconfigurable Electric (Pure) Mobility Technologies			UOIT	27	
13:13 - 13:19	Justin Gammage	Design And Implementation Of An Ultracapacitor-Powered Electric Transit Bus Drivetrain With Advanced Plugged And Wireless Fast Charging Infrastructure			UOIT	28	
13:19 - 13:25	Walter Merida	Sustainable Natural Gas Fueled Ferry Operations for Low-Emissions Waterborne Public Transport			University of British Columbia CERC	29	
13:25 - 13:31		General Questions					
13:31 - 14:16	Lunch						
14:16 - 14:22	Andy Hrymak	Preform development for structural automotive application			University of Western Ontario	30	

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14:22 - 14:28	Patrick Sweet/Corinne Sands	Composites in Secondary Applications			Bombardier	31	
14:28 - 14:34	Rishi Gupta	Development of light weight Cellulose Fibre Reinforced Polymers (CeFRP) for the transportation industry in Canada			University of Victoria	32	
14:34 - 14:40	Adrian Gerlich	Joining of dissimilar light-weight materials for tranportation applications			University of Waterloo	33	
14:40 - 14:46	Duhane Lam	Smart Dynamic Glazing in Passenger and Transit Vehicles			Switch Materials Inc.	34	
14:46 - 14:52		General Questions					
14:52 - 14:58	Remi Desa	Shared Autonomous Vehicle Routing and Dispatching Simulation			Pantonium	35	
14:58 - 15:04	Kevin Tobin	Wearable Train Operator Display			Thales Canada	36	
15:04 - 15:10	Sebastien Tremblay	Addressing challenges of an all-season semi-autonomous bus rapid transit			Laval	37	
15:10 - 15:16	AnnaLisa Meyboom, Alexander Bigazzi, Dave Michelson	Potential benefits and impacts of autonomous electric shuttles on public transit service, urban form and environment			University of British Columbia	38	
15:16 - 15:22	Catherine Carroll	Development of an in-vehicle sensor system that detects cannabis and cocaine in real time to prevent impaired driving.			Sober Steering Sensors	39	
15:22 - 15:28	Sousso Kelouwani	Advanced Driver Assistance Systems for Public Transit and Public School Buses			UQTR	40	
15:28 - 15:34	Dr. H.S. Hassanein	Autonomous Taxi Services – The Future of Urban Transit			Queen's University	41	
15:34 - 15:40	Walter Merida	Improving the Safety of Urban Transit Vehicles through Appropriate Development, Deployment and Use of 77 GHz Automotive Radar Technologies			University of British Columbia CERC	42	
15:40 - 15:46	Daniele DeFranceschi	Class A-1 Mirror Finish Automated 5-axis Mold Polishing			St. Clair College	43	
15:46 - 15:52		General Questions					
15:52 - 16:07	Coffee break						

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16:07 - 16:13	Mitra Mirhassani, Kemal Tepe, and Huapeng Wu	Secure V2X Communication for Public Transportation Systems	University of Windsor	44
16:13 - 16:19	Tim Dickson/Corinne Sands	Information Security for Transit Systems	Bombardier	45
16:19 - 16:25	Daniel Carr	Development of an Electric Vehicle Charging Program for Workplaces	Powerstream	46
16:25 - 16:31		General Questions		
16:31 - 16:37	Remi Desa	Hybrid Transit System Pilot – Using technology to coordinate fixed route and on-demand modes of bus transportation	Pantonium	47
16:37 - 16:43	Amer Shalaby	Strategies for Integrating Specialized and Conventional Transit Services and Understanding the Benefits	University of Toronto	48
16:43 - 16:49	Amer Shalaby and Tamer El-Diraby	Business Intelligence Platform for Analyzing Customer Social Networks to Support Operational & Planning Policies of Transit Agencies	University of Toronto	49
16:49 - 16:55	Gammage, Hoornweg	Connected mobility: Linking Data to mobility	UOIT	50
16:55 - 17:01	Walter Merida	Innovative transportation planning tools for integrated transportation services	University of British Columbia CERC	51
17:01 - 17:07		General Questions		