



Montreal Students' Chapter (MSC – CTRF) Le chapitre de Montréal étudiants (CME – GRTC)

MSC – CTRF Conference 2014

April 7, 2014

Hall Building (H-763 and H-765, 7th Floor), Concordia University
1455 Boulevard de Maisonneuve Ouest, Montréal, QC H3G 1M8

Sponsored by



Program Schedule and Abstracts

9.00-9.30	Registration and Breakfast
9.30	Introductory Speech: President MSC-CTRF
Session 1 9:30-10:35	Moderator: Diana Rivera
9:30-9:50	Dr. Luis Amador (Guest Speaker) Assistant Professor Building, Civil and Environmental Engineering, Concordia University <i>Transportation Asset Management System</i>
9:50-10:05	Aquiles Christopher, Souvik Roy <i>Comparison of pavement design methods</i>
10:05-10:20	Zao Pengfei, Chao Li <i>Optimal Pavement Design for Baitang Town Area based on Sectional Traffic Volumes</i>
10:20-10:35	Ali Tehrani, Mitra Izadkhasti, Amir Reza Tabrizi <i>Airport Pavement Design</i>

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Session 2 10:40-12:05	Moderator: Jose Sanchez Marquez
10:40-11:00	Dr. Craig Townsend (Guest Speaker) Associate Professor, Geography, Planning & Environment, Concordia University <i>Rapid Transit, Land Use, and Social Equity</i>
11:00-11:20	Marc Gagnon (Guest Speaker) Director, Government Affairs and Regulatory Compliance, Fednav Limited <i>Marine Transportation</i>
11:20-11:35	Sabreena Anowar, Shamsunnahar Yasmin, Naveen Eluru, L. F. Miranda-Moreno <i>Analyzing Car Ownership in Quebec City: A Comparison of Traditional and Latent Class Ordered and Unordered Models</i>
11:35-11:50	Alan Cunningham, LEED-AP, AICP <i>If you lived here you'd be home now : Enabling lifestyles of Proximity in America</i>
11:50-12:05	Shamsunnahar Yasmin, Naveen Eluru, Abdul R. Pinjari, Richard Tay <i>Examining Driver Injury Severity in Two Vehicle Crashes – A Copula Based Approach</i>
12:05-13:00	Lunch Break and Poster Presentation
Session 3 13:05-14:10	Moderator: Ahsan Alam
13:05-13:25	Dr. Nicolas Saunier (Guest Speaker) Associate Professor, Département des génies civil, géologique et des mines (CGM), Polytechnique Montréal <i>Automated Road Safety Analysis using Video Data</i>
13:25-13:40	Naghmat Matout <i>Estimation of the Influence of Artificial Roadway Lighting on Road Collision Frequency</i>
13:40-13:55	Umma Tamima, Luc Chouinard, Amitkumar M. Patel <i>Simulation-based performance evaluation of the transportation network in the aftermath of Earthquake in an urban area</i>
13:55-14:10	Mohammad Mostafizur Rahman <i>The application of Highway Economic Requirements System (HERS) as a Road Infrastructure Asset Management System (RIAMS) tool</i>

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Session 4 14:15-15:20	Moderator: Umma Tamima
14:15-14:35	Dr. Marianne Hatzopoulou (Guest Speaker) Assistant Professor, Civil Engineering, McGill University <i>Investigating the polluter-pays principle in relation to traffic-related air pollution generation and exposure</i>
14:35-14:50	Ahsan Alam, Marianne Hatzopoulou <i>Transit Bus Emission: How it is Affected and How it can be Reduced</i>
14:50-15:05	Ehab Diab <i>Revisiting Transit Performance Measures: Untapped potential and implications of transit data visualization</i>
15:05-15:20	Hamed Shahrokhi Shahraki, Ciprian Alecsandru, Paul Anderson-Trocmé, Luis F. Miranda-Moreno <i>An Efficient Artificial Neural Network and Genetic Algorithm Based Calibration Method for Microscopic Simulation Models: A Before-And-After Calibration Conflict Analysis</i>
15:20-15:35	Coffee break
Session 5 15:40-16:45	Moderator: Hamed Shahrokhi Shahraki
15:40-16:00	Dr. Andres Rabinowicz (Guest Speaker) Vice-President, Caliper Corporation <i>TransCAD: Transportation Planning Software</i>
16:00-16:15	Jose Sanchez Marquez, Matin Nabavi, Reza Maghsoudi <i>Use of Non-destructive Tests for Quality Assurance in PCC Pavements</i>
16:15-16:30	Shakila Kayum <i>Impact of Adverse Weather on the Supply Chain in the Freight Transportation</i>



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POSTERS

Md. Abdul Quddus

A Framework to Assess the Sustainability of Transportation Systems

Sabreena Anowar, Naveen Eluru, Luis F. Miranda-Moreno

Analysis of Vehicle Ownership Evolution in Montreal, Canada Using Pseudo Panel Analysis

**Maryam Shekarrizfard, Marie-France Valois, Mark Goldberg, Dan Crouse, Nancy Ross,
Marie-Élise Parent, Marianne Hatzopoulou**

Investigating the Role of Transport Models in Epidemiological Studies of Air Pollution Exposure and Health Effects

Shamsunnahar Yasmin, Naveen Eluru, Chandra R. Bhat, Richard Tay

A Latent Segmentation based Generalized Ordered Logit Model to Examine Factors Influencing Driver Injury Severity

Ahsan Alam, Golnaz Ghafghazi; Marianne Hatzopoulou

Evaluating the Potential of Several Road Network Improvement Strategies on Traffic Emissions

William Farrell

A Statistical Examination of the Effects of the Built Environment on Cyclist Exposure to Air Pollution with a Regional Data Collection Exercise.