



SATURDAY, MAY 31st

CSCE MEETINGS

9:00AM - 11:30AM	Conference Review Halifax
9:30AM - 12:00PM	Honours and Awards Halifax
11:00AM - 12:00PM	YP Committee Meeting Halifax
2:00PM - 5:00PM	ACC Halifax
2:00PM - 5:00PM	PCC Halifax
3:00PM - 6:00PM	RCC Halifax

YOUNG PROFESSIONALS PROGRAM

7:00PM - 9:00PM	Dinner (RSVP Required) Wooden Monkey – 1707 Grafton St.
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SOCIAL EVENTS AND MEALS

7:00AM - 8:00AM	Continental Breakfast Nova Scotia Ballroom
8:00AM - 9:00AM	Conference Specialty Speaker Nova Scotia Ballroom
10:30AM - 11:00AM	Refreshment Break Second Floor Ballroom
12:00PM - 1:50PM	AGM Luncheon Nova Scotia Ballroom
6:00PM - 11:30PM	Fellows Dinner Offsite

SESSIONS/TOURS

8:30AM - 9:00AM	Plenary Session Nova Scotia Ballroom
10:00AM - 10:30AM	Technical Sessions
11:00AM - 12:00PM	Technical Sessions

Acadia A

G49 SUSTAINABLE INFRASTRUCTURE

Time: 9:10 AM - 10:30 AM

Investigation of the Ability to Use Two Existing Methodologies to Determine Sustainable Work Programs for Bridges
Zanyar Mirzaei, ETH Zurich (Switzerland) (84)

Revitalization and Repurpose of 90 Year Old Concrete Bridge Piers
Vireak Hinh (Canada) (86)

An Example of the Effect of Simultaneous Planning of Interventions on Proximate Infrastructure Networks
Clemens Kielhauser, Swiss Federal Institute of Technology (ETH), Zurich (Switzerland) (91)

Study of Leak Detection Technologies in Water Distribution Networks
zahra zangenehmadar, Concordia University (Canada) (97)

G57 CONSTRUCTION

Time: 11:00 AM - 12:00 PM

Design of 3D Steel Towers Using Intelligent Optimisation Algorithms
Christian Kenny, Universite de Moncton (Canada) (35)

Améliorations aux Méthodes d'Estimation des taux de Location des Équipements de Construction
Keven Roy (Canada) (133)

Les Technologies Mobiles, une Révolution dans la Communication et la Coordination de Projets de Construction / Mobiles Technologies, a Revolution in Communication and Coordination of Construction Projects
Sébastien Frenette, ÉTS (Canada) (142)

Acadia B

G50 CONSTRUCTION

Time: 9:10 AM - 10:30 AM

Barriers to Implement Zero Injury in Construction
Estacio Siemann Santos Pereira, University of Alberta (Canada) (174)

Optimization of Multi-Skilled Labor Resources using Genetic Algorithms
Ibrahim Abotaleb, The American University in Cairo (Egypt) (175)

Applying Crisp Boundary to Improve Collision Detection in Construction
seyedshahab Esmailnejad (Canada) (186)

G58 ENGINEERING MATERIALS

Time: 11:00 AM - 12:00 PM

Porous Asphalt Pavement Design for Roads and Car Parks
Venkat Lakkavalli, City of Calgary (Canada) (192)

Investigation of Design Methods for Shaft Capacity of Driven Piles
Kolthoum Abualsaid (Canada) (193)

Acadia C

G51 CONSTRUCTION ENGINEERING

Time: 9:10 AM - 10:30 AM

Risk Mitigation for EPCM projects
Ahmad Salah (Canada) (64)

A New Approach for Evaluating and Analysing the Impact of Interface Management (IM) on Project Performance during Engineering / Design Phase using Monte Carlo Simulation
Nesreen Weshah, University of Calgary (Canada) (128)

Durability Aspects and Bond Strength of Rubbercrete Containing Nano Silica
Bashar Mohammed, Universiti Teknologi Petronas (Malaysia) (162)

G59 CONSTRUCTION

Time: 11:00 AM - 12:00 PM

Essential Skillset for Baccalaureate Level Construction Management Education
Fasial Arain, NAIT (Canada) (6)

Removal of Human Pathogens in Wastewater Stabilization Ponds in Nunavut
Yannan Huang, Dalhousie University (Canada) (136)

Halifax A

S22-SA1: STRUCTURES - LOADING 2

Time: 9:10 AM - 10:30 AM

Determining Wind Loads on Solar Arrays using Boundary Layer Wind Tunnel Testing
Mike Gibbons, RWDI Inc. (Canada) (50)

Wind Loading Zones for Flat Roofs: National Building Code of Canada (NBCC 2010)
Mohamed Elsharawy, Concordia University (Canada) (107)

Design Snow Load Refinement using Modelling and Analysis Techniques
Jan Dale, Rowan Williams Davies & Irwin Inc. (Canada) (88)

Estimating Ground Snow Load for Southern Ontario
H.P. Hong, University of Western Ontario (Canada) (180)

G68 SUSTAINABLE INFRASTRUCTURE

Time: 11:00 AM - 12:00 PM

Using Cloud Storage as a Platform for Construction Database and Data Management System
Chandana Siriwardana, University of Calgary (Canada) (187)

Computational Predication of Effect of Voids on Transverse Elasticity of Composites
Hasan Nikopour Deilami, McGill University (Canada) (194)

GENERAL

General Conference

ENVIRONMENTAL

13th International Environmental Specialty Conference

STRUCTURAL

4th International Structural Specialty Conference

TRANSPORTATION

10th International Transportation Specialty Conference



Sable A

E10 WATER AND WASTEWATER TREATMENT S2

Time: 9:10 AM - 10:30 AM

Optimizing Treatment of Residuals at a Direct Filtration Water Treatment Plant

Megan Wood, Dalhousie University (Canada) (14)

Removal of Emerging Contaminants from Wastewater Effluents by using Nano-Composite Electrochemical Filters

Alexandra Meikleham, Concordia University (Canada) (8)

Effect of Linoleic Acid and COD to Sulfate Ratio on Anaerobic Sulphate Reduction in Semi-Continuous Reactors

Shahrokh Shahsavari, University of Windsor (Canada) (13)

Development of a Rapid ATP Analysis Method for UV Disinfection Monitoring - Confirming Microbial Response in a Single Work Shift

Xuesong Xie, Dalhousie University (Canada) (25)

E11 WATER POLLUTION CONTROL ENGINEERING S2

Time: 11:00 AM - 12:00 PM

Examining the Use of Geotubes for Removing Aluminum in Water Treatment Backwash Water

Craig Lake (Canada) (27)

Evaluation of Oily Wastewater Treatment using Membrane Adsorption Bioreactors (MABR)

Wen Wen Pei, Dalhousie University (Canada) (29)

GIS-Based Water Quality Assessment for Huanjiahu Lake

Li Kai Geng, Concordia University (Canada) (41)



Sable B

T56 TRANSPORTATION VI

Time: 9:10 AM - 10:30 AM

Estimation of Accessibility Measures for the Service Destinations in the Halifax Regional Municipality, Canada

Shamsad Irin, Dalhousie University (Canada) (17)

A Hazard Based Modeling Approach for Residential Mobility Decisions

Muhammad Habib, Dalhousie University (Canada) (50)



Sable C

S24-SA1: STRUCTURES - CRACK DETECTION

Time: 9:10 AM - 10:30 AM

Finite Element Study on Crack Width of Reinforced Concrete Walls

Hossein Matinmanesh, Ryerson University (Canada) (84)

Object Space Localization and Characterization of Cracks in Concrete Infrastructure Elements

Ivan Detchev, University of Calgary (Canada) (187)

Calibration of Crack Width Model

Hesham Othman, Ryerson University (Canada) (68)

S25-SA2: STRUCTURES - SEISMIC - 3

Time: 11:00 AM - 12:00 PM

Seismic Performance of Concrete Buildings Reinforced with Shape Memory Alloy Rebars

Afrin Hossain, The University of British Columbia, Okanagan (Canada) (31)

Seismic Collapse Safety of Shape Memory Alloy Reinforced Concrete Bridge Pier

Shahria Alam, University of British Columbia (Canada) (163)

Foundations Design under Dynamic or Seismic Loads

Yingcai Han, Fluor Canada Ltd. (Canada) (11)



Sable D

S23-SA1: STRUCTURES - ANALYSIS / PERFORMANCE

Time: 9:10 AM - 10:30 AM

Effect of Anchorage Type on the Seismic Performance of GFRP-Reinforced Concrete Exterior Beam-Column Joints with Edge Beams

shervin khalili ghomi, University of Manitoba (Canada) (61)

Fracture Energy Characteristics of Engineered Cementitious Composites Incorporating Different Aggregates

Khandaker Hossain, Ryerson University (Canada) (40)

Stresses Induced in Concrete Frame Structure due to Differential Settlement of its Foundation

Adel Hanna, Concordia University (Canada) (111)

Structural Analysis and Design of Reinforced Concrete Tunnel with Various Cross Sections and Soil Retaining Systems

Sven Curic, StruCon Ltd. (Canada) (93)

