DETAILED PROGRAM

Program activities are being held at the Sheraton Centre Toronto Hotel.

SESSION FORMATS

SES = Session  
PD = Panel Discussion  
WS = Workshop  
PS = Poster Session

Note: Simultaneous interpretation will be provided in technical sessions with French presentations. Receivers may be obtained in the rooms where French content will be presented.

MONDAY, SEPTEMBER 26 – 08:45-11:00

OPENING PLENARY

Grand Ballroom, Lower Concourse

Sponsor: SNC-Lavalin Inc.

Chair: Honorable Steven Del Duca, Minister, Ministry of Transportation of Ontario

The 2016 conference theme, Efficient Transportation – Managing the Demand, will highlight the importance, opportunities and successes in efficient transportation.

Keynote Address – Driving Changes: Vehicle Automation, a New Paradigm for Transportation in the Digital Economy

David Ticoll, Distinguished Research Fellow, Innovation Policy Lab, Munk School of Global Affairs, University of Toronto

ETHICS: IT’S YOUR CHOICE! (PD)

Chair: Jean-François Gysel, Vice-President, Strategy, Marketing and Business Development, Infrastructure Engineering, SNC-Lavalin Inc.
Moderator: Paul Lalonde, Partner, Dentons Canada LLP, Chair and President of Transparency International Canada

Organized by TAC’s Education and Human Resources Development Council

Panelists

- Susan Tighe, Director, Centre for Pavement and Transportation Technology, University of Waterloo
- Kevin Bentley, Director of Maintenance, Ministry of Transportation of Ontario
- Hentie Dirker, Chief Compliance Officer, SNC-Lavalin
- Bernard Innis, Director, Policy and Professional Affairs, Professional Engineers Ontario
- Max Mantha, General Manager and Area Manager, Looby Construction, part of the EllisDon Group of Companies

Discussion and Question-and-Answer Period
CURRENT PRACTICES FOR MITIGATION AND REMEDIATION OF CONTAMINATION FOR ROADS AND BRIDGES (PD)
Civic Ballroom North, 2nd floor

Co-Chairs: Rico Fung, Director, Markets and Technical Affairs, Cement Association of Canada and Robin Taylor, Senior Environmental Assessment Manager, Hemmera Envirochem Inc.

Organized by TAC’s Environment Council

Panelists
- EFFICIENT MANAGEMENT OF CONTAMINANT LIABILITIES
  Claire Lewis, Senior Engineer and Project Director, Hemmera Envirochem Inc.
- MANAGEMENT OF EXCESS SOIL IN ONTARIO - AN OVERVIEW OF MOECC’S GUIDANCE ON BEST MANAGEMENT PRACTICES AND POLICIES
  Robert Timlin, Regional Manager, Eastern Ontario, SNC-Lavalin Inc.
- MANAGEMENT OF CONTAMINATED SOIL ALONG URBAN ROADWAYS – CASE STUDY
  Derek Stewart, Contaminant Specialist/Senior Project Manager, MMM Group Limited
- NEWLY DEVELOPED SALT-IMPACTED SOIL REMEDIATION TECHNOLOGY
  Christian Belanger, Vice-President, Innovation and Development, Englobe Corp.

Discussion and Question-and-Answer Period

GEOMETRIC DESIGN – EMERGING ISSUES (SES)
Pine Room, Mezzanine Level

Chair: Eric Christiansen, Capital Projects Engineer, Manitoba Infrastructure

Organized by TAC’s Geometric Design Standing Committee

13:45 ESTABLISHING THE MINIMUM GROUND CLEARANCES FOR THE TAC DESIGN VEHICLES BASED ON THE DESIRABLE GRADES AND THE MAXIMUM GRADE CHANGES
Ena Vehabovic, Engineer-in-Training, Technical Applications Specialist, Transoft Solutions Inc.; Andres Velez; Steven Chan

14:05 COMPARATIVE STUDY FOR THE REDEVELOPMENT OF THE ST-JOSEPH/JEAN-PROULX INTERSECTION IN GATINEAU
Jordan Belovski, Project Director, Transportation / Highways and Bridges, Stantec Consulting Ltd.

14:25 DECISION SIGHT DISTANCE FOR FREEWAY EXIT RAMPS – A ROAD SAFETY PERSPECTIVE
Geoffrey Ho, President, G. Ho Engineering Consultants Inc.; Julian Rozental; Svetozar Majstorovic

14:45 TURNING A CONVENTIONAL SUBURBAN ARTERIAL WIDENING INTO A COMPLETE STREETS SHOWCASE
Stephen Schijns, Manager, Roads and Transit, AECOM Canada Ltd.; Neal Smith
SOLVING CONGESTION IN THE CHEAPEST WAY POSSIBLE: PRICE IT (PD)
Kenora Room, 2nd floor

Chair: Timothy Spurr, Expert, Urban Transportation Modelling, Agence métropolitaine de transport

Organized by TAC’s Transportation Finance Standing Committee

Panelists
- COMPREHENSIVE ROAD PRICING IN METRO VANCOUVER: MOVING TO IMPLEMENTATION
  Geoff Cross, Acting Vice President, Transportation Planning and Policy, TransLink
- CONGESTION PRICING
  Murtaza Haider, Associate Professor of Real Estate Management, Ryerson University
- WE CAN’T GET THERE FROM HERE: WHY PRICING CONGESTION IS CRITICAL TO BEATING IT
  Mel Cappe, Professor, School of Public Policy and Governance, University of Toronto
- IMPLEMENTING HIGH OCCUPANCY TOLL LANES IN ONTARIO
  Jamie Austin, Acting Director, HOT Lanes Pilot Office, Ontario Ministry of Transportation

Discussion and Question-and-Answer Period

WHAT ARE TRANSIT-SUPPORTIVE ENVIRONMENTS, ANYWAY? INNOVATIVE INDICATORS AND METHODOLOGIES TO EVALUATE TRANSIT SUPPORTIVENESS (SES)
Chestnut East Room, Mezzanine Level

Chair: Geoffrey Keyworth, Acting Manager, Transportation Planning, Transportation and Environmental Services, Regional Municipality of Waterloo

Organized by TAC’s Transportation Planning and Research Standing Committee

13:45 SKETCH MODEL FOR ESTIMATING STATION LEVEL RIDERSHIP FOR LRT
Mausam Duggal, Manager, Regional Planning, WSP|Parsons Brinckerhoff; Nemanja Radakovic; Arun Bhowmick; Sandeep Datla

14:15 THE PHIBBS BUS EXCHANGE REDESIGN: FROM CONCRETE AND ASPHALT TO RAINGARDENS AND BRIDGES!
Bernard Abelson, Transportation Planning Sector Lead & Project Engineer, McElhanney Consulting Services and Michelle Babiuk, Manager, Transit Network Management, TransLink

ADVANCED TESTING AND MODELING OF ROAD AND EMBANKMENT MATERIALS (SES)
Cedar Room, Mezzanine Level

Chair: Ania Anthony, Director, Road Sciences and Environment, Saskatchewan Highways and Infrastructure

Organized by TAC’s Soils and Materials Standing Committee
13:45 INVESTIGATION OF ONTARIO’S FINE AGGREGATE SOURCES FOR USE IN EXPOSED CONCRETE PAVEMENTS
  Michael Abma, Engineer in Training, Ministry of Transportation of Ontario; Carole Anne MacDonald; Stephen Senior; Henry Bykerk

14:15 OBSERVATION OF ASPHALT BINDER MICROSTRUCTURE WITH ESEM
  Peter Mikhailenko, Research Associate, Centre for Pavement and Transportation Technology (CPATT), University of Waterloo; Hawraa Kadhim; Yashar Azimi Alamdary; Hassan Baaj

14:45 PERFORMANCE-BASED HYDRAULIC CONDUCTIVITY MODELS FOR UNBOUND GRANULAR MATERIALS
  Haithem Soliman, Assistant Professor, University of Saskatchewan; Ahmed Shalaby

15:15 30 Minute Refreshment Break in the Exhibition

15:45 ADOPTION OF STATISTICAL ANALYSIS TO EVALUATE THE PERMANENT DEFORMATION OF POLYETHYLENE TEREPTHALATE (PET) MODIFIED SMA MIXTURES
  Taher Baghaee Moghaddam, Student, University of Waterloo; S.M. Kamal Hossain; Hassan Baaj

16:15 ASSESSMENT OF SUBGRADE SOILS FOR PAVEMENT DESIGN FOR HIGHWAY 407, EAST EXTENSION PICKERING TO OSHAWA, ONTARIO
  Louis D’Amours, Director, Geotechnical and Pavement Engineering, SNC-Lavalin, Environment and Geosciences; André Contant; James Ng

COMPLETE STREET – NOW APPEARING NEAR YOU (PD)
Civic Ballroom South, 2nd floor

Chair: Roxane MacInnis, Senior Project Planner, MMM Group Limited

Organized by TAC’s Sustainable Transportation Standing Committee

Panelists
• POLICIES AND PROJECTS FOR COMPLETE STREETS IN HALIFAX
  David MacIsaac, Active Transportation Supervisor, Transportation and Public Works, Halifax Regional Municipality
• EVALUATING COMPLETE STREET TRANSFORMATIONS
  Nancy Smith Lea, Director, Toronto Centre for Active Transportation (TCAT)
• THE EVOLUTION OF THE COMPLETE STREET CONCEPT
  Kornel Mucsi, Program Manager- Transportation Strategic Planning, City of Ottawa
• DEVELOPING PERFORMANCE MEASURES FOR COMPLETE STREETS
  Tamara Augsten, Research Associate, City of Toronto and Adam Popper, Project Manager, City of Toronto
• AN OVERVIEW & INSPIRATION
  Roxane MacInnis, Senior Project Planner, MMM Group Limited

Discussion and Question-and-Answer Period
Panel includes a 30 minute refreshment break at 15:15 in the exhibition
EFFICIENT TRANSPORTATION – MANAGING THE MAINTENANCE DEMAND (SES)
Linden Room, Mezzanine Level

Chair: John Suwala, Highway Maintenance Engineer, Government of the Northwest Territories

Organized by TAC’s Maintenance and Construction Standing Committee

13:45 TRANSPORTATION ASSET MANAGEMENT FOR PUBLIC PRIVATE PARTNERSHIP (PPP) PROJECTS
Zaid Alyami, PhD Candidate, University of Waterloo; Susan L. Tighe; Phil Malin

14:15 COMPARATIVE ANALYSIS OF PERFORMANCE OF DIFFERENT DE-ICING MATERIALS
Soroush Salek, Project Manager, CIMA; Pedram Izadpanah; Soroush Salek; Max Perchanok

14:45 EDMONTON'S HORSEHILLS SNOW STORAGE FACILITY
Ryan Teplitsky, Construction Project Manager, City of Edmonton

15:15 30 Minute Refreshment Break in the Exhibition

15:45 REHABILITATION AND MAINTENANCE OF REINFORCED CONCRETE BRIDGE DECKS USING CATHODIC PROTECTION SYSTEM- A 30-YEAR OLD CASE STUDY
Meghdad Hoseini, Project Manager, WSP Canada Inc.; Neil Cumming; John Fussell; Shane Cook

16:15 NON-DESTRUCTIVE EVALUATION TECHNIQUES FOR STEEL BRIDGES INSPECTION
Ahmed Elbeheri, PhD Student, Concordia University; Tarek Zayed

16:45 DEVELOPING CORROSION MAPS OF RC BRIDGE ELEMENTS BASED ON AUTOMATED VISUAL IMAGE ANALYSIS
Mohammed Abdul Rahman, PhD Student, Concordia University; Tarek Zayed

HOW INDUSTRY PROFESSIONALS CAN APPLY THE SCIENCE OF ROAD SAFETY IN CANADA (WS)
Dominion Ballroom South, 2nd floor

Co-Chairs: Bill Kenny, Director, Design, Project Management and Training, Alberta Transportation and Geni Bahar, President, NAVIGATS Inc.

Organized by TAC’s Road Safety Standing Committee

This workshop will demonstrate the useful application of road safety to normal everyday engineering activities of highway planning, design, operations and management. It will consist of a series of presentations on international practices, pre-requisites, demand analysis and business models for road safety professional designation in Canada and educational resources. Breakout groups will discuss issues, tools, methodologies and analytical models. Real life scenarios will also be presented.

13:50 A ROAD SAFETY PROFESSIONAL ACCREDITATION IN CANADA - VISION, BENEFITS, AND CHALLENGES
Geni Bahar, President, NAVIGATS Inc.

14:00 FINDINGS OF MARKET ANALYSIS FOR ROAD SAFETY PROFESSIONAL IN CANADA
Pedram Izadpanah, Senior Project Manager, CIMA+
14:10  LESSONS LEARNED AND RECOMMENDATIONS FOR A POTENTIAL BUSINESS MODEL FOR AN RSP DESIGNATION  
        Tim Murphy, Road Design and Safety Specialist, Parsons

14:20  THE SCIENCE OF ROAD SAFETY INTEGRATED WITHIN THE ROAD SAFETY MANAGEMENT AND PROJECT DEVELOPMENT PROCESSES  
        Geni Bahar, President, NAVIGATS Inc.

14:35  HUMAN FACTORS IN DESIGN DECISIONS  
        Alison Smiley, President, Human Factors North Inc.

14:45  THE NEED AND SUPPLY OF ROAD SAFETY LEARNING OPPORTUNITIES AT HRSC AND ELSEWHERE  
        David Harkey, Director, University of North Carolina Highway Safety Research Center (HSRC)

15:00  Question and Answer Period

15:15  15 Minute Refreshment Break in the Exhibition

15:30  Group Breakout Session

MAKING TRANSPORTATION MORE EFFICIENT THROUGH CONNECTED AND AUTOMATED VEHICLES (PD)  
City Hall Room, 2nd floor

Sponsor: CIMA+

Chair: Garreth Rempel, Principal, MORR Transportation Consulting Ltd.

Organized by TAC’s Traffic Operations and Management Standing Committee and Road Safety Standing Committee

Panelists

- USING V2I COMMUNICATION TO IMPROVE TRANSPORTATION EFFICIENCY  
  Carl Andersen, Connected Vehicle Program Manager, Federal Highway Administration

- ITS AND CONTRIBUTION TO TRANSPORTATION EFFICIENCY  
  Stephen Erwin, Head, ITS Futures Project, Ministry of Transportation of Ontario

- COOPERATIVE TRUCK PLATOONING AND THEIR EFFICIENCY BENEFITS  
  Steven Shladover, Program Manager, Mobility, California PATH, University of California at Berkeley

- SPECIAL CONSIDERATIONS FOR AUTONOMOUS VEHICLES IN NORTH AMERICA  
  Richard Bishop, Automated Vehicles Industry Analyst, Bishop Consulting

- RESULTS OF TRACK TESTING OF AUTOMATED EMERGENCY BREAKING  
  Peter Burns, Chief, Ergonomics and Crash Avoidance, Transport Canada

- CONNECTED VEHICLE/AUTOMATED VEHICLE (CVAV) PROGRAM  
  Martin Lord, Business Development Manager, Southwest Ontario, Ontario Centres of Excellence

- SPECIAL CONSIDERATIONS WHEN INTRODUCING AVS IN THE CITY OF TORONTO  
  Ryan Lanyon, Manager, Street Furniture, City of Toronto
• TRANSFORMING HOW WE MOVE - CONNECTED AND AUTOMATED VEHICLES
  Blaine Leonard, Chair, AASHTO Connected and Automated Vehicles Working Group, Intelligent Transportation Systems Program Manager, Utah Department of Transportation

Discussion and Question-and-Answer Period
Panel includes a 30 minute refreshment break at 15:15 in the exhibition

MINISTRY OF TRANSPORTATION PRESENTATIONS (SES)
Kent Room, 2nd floor

Chair: Jennifer Fisk, Senior Business Consultant, PHMT Coordinator Provincial Highways Management Division, Ministry of Transportation

Organized by Ontario’s Ministry of Transportation

13:45 THE EVOLUTION OF WINTER MAINTENANCE IN ONTARIO, INCLUDING THE INTRODUCTION OF “TRACK MY PLOW”
  Kevin Bentley, Provincial Highways Management Division, Ministry of Transportation

15:15 30 Minute Refreshment Break in the Exhibition

15:45 REMOTE NORTHERN TRANSPORTATION IN ONTARIO
  Rob Neron, Provincial Highways Management Division, Ministry of Transportation

NEW RESEARCH AND DEVELOPMENTS IN ROAD SAFETY (SES)
Birchwood Ballroom, Mezzanine Level

Sponsor: Mark’s Commercial

Chair: Clayton Rudy, Transportation Engineer, McElhanney Consulting Services Ltd.

Organized by TAC’s Road Safety Standing Committee

13:45 LAND USE PLANNING MEASURES PROMOTING ROAD SAFETY (DES MESURES D’AMÉNAGEMENT DU TERRITOIRE POUR FAVORISER LA SÉCURITÉ ROUTIÈRE)
  Catherine Berthod, Ingénieure et urbaniste, Ministère des Transports, de la Mobilité durable, et de l’Électrification des transports du Québec
  * Presentation in French

14:15 YUKON ROADSIDE BARRIER GUIDELINE UPDATE: CALIBRATING RSAP FOR QUANTITATIVE ROAD SAFETY MANAGEMENT
  Lucas Knowles, Traffic Engineer, Yukon Highways and Public Works and Paul Anderson-Trocmé, Transport Infrastructure Specialist, Fireseeds North Infrastructure Corporation; Craig Milligan; Brian Crist; Rebecca Peterniak; Paul Murchison
14:45  A WARRANT SYSTEM FOR THE USE OF SPEED DISPLAY SIGNS IN SCHOOL ZONES
       Eric Hildebrand, Professor, University of New Brunswick; Kaitlin Hazzard; James Christie

15:15  30 Minute Refreshment Break in the Exhibition

15:45  LAKE ICE COVER DEFLECTION INDUCED BY MOVING VEHICLES: COMPARING THEORETICAL RESULTS WITH SATELLITE OBSERVATIONS
       Hossein Babaei, Research Council Officer, National Research Council of Canada; Joost van der Sanden; Naomi Short; Paul Barrette

16:30  SURROGATE SAFETY MEASURES FOR CROSSWALK SAFETY AT NON-SIGNALIZED CROSSINGS DURING NIGHTTIME:
       A MONTREAL CASE STUDY
       Ting Fu, PhD Candidate, McGill University; Luis Miranda-Moreno; Nicolas Saunier

SUCCESSION PLANNING - GETTING IT RIGHT (PD)
Dufferin Room, 2nd floor

Chair: Darlene Cleven, Vice-President, Allan Widger Consulting Corp.
Moderator: Marija Savic Lopicic, Senior Organizational Development Consultant, Metrolinx

Organized by TAC’s Education and Human Resources Development Council

Panelists

• STANTEC’S SUCCESSION PLANNING JOURNEY
  Carl Clayton, Executive Vice-President, International, Stantec Consulting Ltd.

• MANITOBA INFRASTRUCTURE: RECRUIT, RETAIN AND SUCCEED
  Harmony McKinney-Bumstead, CET, Division Support Advisor, Engineering and Operations, Manitoba Infrastructure

• SUCCESSION PLANNING – A MUNICIPAL PERSPECTIVE
  Maureen Van Ravens, CET, Manager of Transportation and Development Engineering, Town of Halton Hills

• SUCCESSION PLANNING – MAXIMIZING THE LEADERS WITHIN YOUR ORGANIZATION
  David Hein, Principal Engineer and Vice-President, Transportation, Applied Research Associates, Inc.

• SUCCESSFUL SUCCESSION PLANNING
  Marija Savic Lopicic, Senior Organizational Development Consultant, Metrolinx

Discussion and Question-and-Answer Period
Panel includes a 30 minute refreshment break at 15:15 in the exhibition

SUSTAINABILITY AND CLIMATE CHANGE CONSIDERATIONS IN PAVEMENTS (SES)
Chestnut West Room, Mezzanine Level

Chair: Mick Prieur, Business Development Manager, Capital Paving Inc.

Organized by TAC’s Pavements Standing Committee
13:45  LIFE CYCLE ENVIRONMENTAL ASSESSMENT USING ATHENA PAVEMENT LCA TOOL: A MANITOBA CASE STUDY  
*M. Alauddin Ahammed*, Pavement Design Engineer, Manitoba Infrastructure; *Sherry Sullivan; Grant Finlayson*  
*Chris Goemans; Jamie Meil*

14:15  BULK-HAUL TRAFFIC HIGHWAY MAINTENANCE AND REHABILITATION IMPACT STUDY  
*John Laxdal*, Regional Manager, Amec Foster Wheeler, Burnaby BC

14:45  INFLUENCE OF PAVEMENT MAINTENANCE STRATEGY ON ROAD TRAFFIC SOCIAL AND ENVIRONMENTAL IMPACTS AND ASSOCIATED COSTS  
*Luc Pellecuer*, Associate Professor, École de technologie supérieure

15:15  30 Minute Refreshment Break in the Exhibition

15:45  IMPACT OF CLIMATE CHANGE IN THE IMPLEMENTATION OF THE SEASONAL WEIGHTS IN MANITOBA  
*M. Alauddin Ahammed*, Pavement Design Engineer, Manitoba Infrastructure; *Tara Liske; Maria Elena Oberez;*  
*M. Alauddin Ahammed; Tara Liske; Maria Elena Oberez; Ludomir Uzarowski, Principal, Senior Pavement and Materials Engineer, Golder Associates Ltd.; Rabiah Rizvi; Bill Morrison*

16:15  DEALING WITH PAVEMENTS ON MELTING PERMAFROST AT NORTHERN AIRPORTS UNDER BUDGET CONSTRAINTS  
*Ludomir Uzarowski*, Principal, Senior Pavement and Materials Engineer, Golder Associates Ltd.; *Rabiah Rizvi; Bill Morrison*

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**MONDAY, SEPTEMBER 26 – 15:45-17:15**

**EXIT THE EXOTICS – OPPORTUNITIES AND CHALLENGES RELATED TO REVEGETATING WITH NATIVE SPECIES (PD)**  
Civic Ballroom North, 2nd floor

Chair: *Ryan Coulter*, Manager of Environmental Services, Manitoba Infrastructure

*Organized by TAC’s Environment Council*

**Panelists**

- **REVEGETATING WITH NATIVE GRASSES ON A MAJOR NEW ALL SEASON ROAD IN MANITOBA**  
  *Chris Penner*, Ecologist, Environmental Design, Scatliff+Miller+Murray Inc.

- **PUSHING THE LIMITS – REESTABLISHING NATIVE ECOSYSTEMS WITHIN THE FOOTPRINT OF THE RT. HON. HERB GRAY PARKWAY**  
  *Barb Macdonell*, Senior Environmental Planner, Ministry of Transportation of Ontario; *Andreas Stenzel*, EA Group Head, Amec Foster Wheeler, ON/Env. Director, Windsor Essex Mobility Group, Herb Gray Parkway, AMEC Foster Wheeler and *Eha Naylor*, Practice Urban Design Lead/Partner, Dillon Consulting

- **SASKATCHEWAN HIGHWAYS AND INFRASTRUCTURE’S USE OF NATIVE PLANTS IN ROADSIDE REVEGETATION**  
  *Shauna Lehmann*, Senior Environmental Engineer, Saskatchewan Ministry of Highways and Infrastructure

- **NATIVE REVEGETATION OF AN ACTIVE GRAVEL PIT IN NORTHERN ALBERTA: A WORK IN PROGRESS**  
  *Laura Roberts*, Senior Environmental Scientist, Amec Foster Wheeler

*Discussion and Question-and-Answer Period*
GETTING THE PRICES RIGHT – REMAKING TRANSIT FARE POLICY (PD)
Kenora Room, 2nd floor

Chair: Tamim Raad, Principal, Access Planning Ltd.

Organized by TAC’s Transportation Finance Standing Committee

Panelists

- TOWARD FARE INTEGRATION FOR THE GTHA: APPROACH AND EARLY FINDINGS
  Eve Wyatt, Senior Manager, Applied Research and Corporate Monitoring, Metrolinx

- FAIR FARES FOR CITY BUILDING
  Jennifer Keesmaat, Chief Planner and Executive Director, City of Toronto

- TRANSLINK FARE POLICY REVIEW FOR METRO VANCOUVER
  Geoff Cross, Acting Vice President, Transportation Planning and Policy, TransLink

- INTEGRATING FARES IN METROPOLITAN MONTREAL
  Daniel Bergeron, Assistant to the President, Transition Committee, Mise en œuvre du Projet de Loi 76 (Bill 76 Transition Committee)

Discussion and Question-and-Answer Period

IMPACTS OF CLIMATE CHANGE ON TRANSPORTATION PLANNING (SES)
Chestnut East Room, Mezzanine Level

Chair: Rico Fung, Director, Markets and Technical Affairs, Cement Association of Canada

Organized by TAC’s Transportation Planning and Research Standing Committee

15:45 ESTIMATING THE IMPACT OF TRANSIT PROJECTS ON GHG EMISSIONS
  David McElroy, Transportation Planner, Metrolinx; Joshua Engel-Yan; David Pritchard

16:15 PLANNING FOR EXTREME WEATHER AND CLIMATE CHANGE: ADVANCING RESILIENCY AND ADAPTATION ACROSS METROLINX
  Quentin Chiotti, Senior Advisor, Resiliency and Adaptation, Metrolinx

16:45 RESILIENCE: CLIMATE CHANGE, EXTREME WEATHER AND TRANSPORTATION SYSTEMS
  Terry Zdan, Policy Consultant, Manitoba Infrastructure

GREEN TECHNOLOGY IN GEOTECHNICAL AND MATERIALS ENGINEERING (SES)
Chestnut West Room, Mezzanine Level

Chair: Tom Kazmierowski, Senior Consultant, Golder Associates

Organized by TAC’s Soils and Materials Standing Committee
08:30 EFFECT OF DIFFERENT TREATMENT METHODS ON THE INTERFACIAL TRANSITION ZONE MICROSTRUCTURE TO COARSE RECYCLED CONCRETE AGGREGATE  
*Hanaa Al-Bayati,* Ph.D. Candidate, Centre for Pavement and Transportation Technology (CPATT), Department of Civil and Environmental Engineering, Faculty of Engineering, University of Waterloo; *Susan L. Tighe; Hassan Baaj*

08:50 EVALUATION OF THE EFFECTIVENESS OF DIFFERENT WARM MIX TECHNOLOGIES TO IMPROVE MOISTURE SUSCEPTIBILITY OF ASPHALT MIXTURES  
*Sina Varamini,* Ph.D. Candidate and Graduate Researcher, Centre for Pavement and Transportation Technology (CPATT), University of Waterloo; *Susan L. Tighe; Seyed Tabib*

09:10 TESTING AND EVALUATION OF RECLAIMED MATERIALS AS AGGREGATE FOR OPSS GRANULAR B TYPE II  
*Adam Schneider,* MASc Candidate, Centre for Pavement and Transportation Technology, University of Waterloo; *Hassan Baaj; Paul Lum; Stephen Senior*

09:30 UTILIZING A DIFFERENT TECHNIQUE FOR IMPROVING MICRO AND MACRO CHARACTERISTICS OF COARSE RECYCLED CONCRETE AGGREGATE  
*Hanaa Al-Bayati,* Ph.D. Candidate, Centre for Pavement and Transportation Technology (CPATT), Department of Civil and Environmental Engineering, Faculty of Engineering, University of Waterloo; *Susan L. Tighe*

### MANAGING SOCIAL MEDIA THROUGHOUT PROJECT LIFE CYCLE – OPPORTUNITIES AND CHALLENGES (PD)

Civic Ballroom North, 2nd floor

Chair: *Patrick J. Shea,* Senior Environmental Planner, Newfoundland and Labrador Department of Transportation and Works and *Jean-Luc Lambert,* Support Services Engineer, City of Winnipeg Public Works

Organized by TAC’s Environment Council

**Panelists**

- CREATING A PATH TO SUSTAINABLE DECISIONS – THE ROLE OF PUBLIC ENGAGEMENT AND SOCIAL MEDIA TOOLS  
  *Tiffany Skomro,* Public Engagement Officer, City of Winnipeg and *Jean-Luc Lambert,* Support Services Engineer, City of Winnipeg Public Works
- FUNCTIONAL PLAN FOR WHITEHORSE CORRIDOR - ALASKA HIGHWAY, INNOVATIONS IN PUBLIC ENGAGEMENT  
  *Canisius Chan,* Project Engineer, CH2M HILL Canada Limited and *Sandra MacDougall,* Regional Program Manager, Highways and Public Works, Government of Yukon
- EFFICIENT FOR WHOM? USING SOCIAL MEDIA TO MANAGE PROJECT RISK  
  *Pam Ryan,* Managing Partner, Lucent Quay Consulting
- REGULATORY REACTION TO SOCIAL MEDIA – CHALLENGES AND OPPORTUNITIES  
  *Patrick J. Shea,* Senior Environmental Planner, Newfoundland and Labrador Department of Transportation and Works

**Discussion and Question-and-Answer Period**
TUESDAY, SEPTEMBER 27 – 08:30-12:00

CROSS ASSET ANALYSIS AND OPTIMIZATION – SOLUTIONS FOR INFORMED DECISION MAKING (SES)
Linden Room, Mezzanine Level

Chair: James Smith, Manager, Member/Technical Services, Ontario Good Roads Association (OGRA)

Organized by TAC’s Asset Management Task Force

08:30   A CROSS-ASSET RESOURCE ALLOCATION METHODOLOGY AND VALIDATION FOR LARGE-SCALE ASSET NETWORKS
Siamak Saliminejad, Senior Consultant, AgileAssets Inc.; David Armstrong; Charles Pilson

09:00   INFLUENCE OF ORGANIZATIONAL STRUCTURE ON CROSS-ASSET DECISION MAKING
Jason Bittner, Principal Analyst, Applied Research Associates; David Hein

09:30   MAKING THE BIG DECISIONS – AN ANALYTICAL APPROACH TO SUPPORT CAPITAL INVESTMENT DECISION-MAKING IN TRANSPORTATION AGENCIES
David Kamnitzer, Director, IBI Group and Lisabeth Concho, Asset Management Consultant, Asset Management Consultant

10:00   30 Minute Refreshment Break in the Exhibition

10:30   THE PRACTICALITIES OF INCORPORATING RISK INTO OPTIMIZED MAINTENANCE AND RENEWAL STRATEGIES FOR INFRASTRUCTURE ASSET PORTFOLIOS
John MacNaughton, Senior Consultant, Opus International Consultants; Karen Robichaud

11:00   CROSS ASSET MANAGEMENT - THE ALASKA HIGHWAY CORRIDOR
Alan Reggin, Pavement/Asset Management Engineer, Tetra Tech EBA; Gary St Michel

11:30   DEVELOPING AND OPERATIONALIZING INTEGRATED CROSS-ASSET INVESTMENT PLANNING FOR PUBLIC INFRASTRUCTURE
Milos Posavljak, Professional Engineer, University of Waterloo, City of Waterloo; Nick Larson, Susan L. Tighe

GOODS MOVEMENT (SES)
Birchwood Ballroom, Mezzanine Level

Chair: Sabbir Saiyed, Manager, Transportation System Planning, Region of Peel

Organized by TAC’s Transportation Planning and Research Standing Committee

08:30   REGION OF PEEL GOODS MOVEMENT ECONOMIC IMPACT ANALYSIS
Adrian Lightstone, Senior Consultant, WSP Group; Kathryn Dewar; Sabbir Saiyed

09:00   STRATEGIC DIRECTIONS AND NEW ACTIONS FOR GOODS MOVEMENT IN THE GTHA
David Kriger, President, David Kriger Consultants Inc.; Vijay Gill
09:30  THE APPLICABILITY OF URBAN LOGISTICS SOLUTIONS IN MONTREAL (L’APPLICABILITÉ DES SOLUTIONS DE LOGISTIQUE URBAINES À MONTRÉAL)
Marguerite Simo, PhD Student, CIRRELT
* Presentation in French

10:00  30 Minute Refreshment Break in the Exhibition

10:30  ENRICHING A TRUCK GPS DATASET WITH ROADSIDE INTERCEPT SURVEY DATA: A DATA FUSION APPROACH
Matthew Roorda, Associate Professor, Department of Civil Engineering, University of Toronto; Sirui Zhu

10:50  HDPE GEOGRID ON THE LOW LEVEL ROAD PROJECT FOR THE CITY OF NORTH VANCOUVER AND PORT METRO VANCOUVER
Dan Mac Donald, Applications Specialist, MSE Walls and Slopes, Nilex Civil Environmental Group; German Cajigas

11:20  MANAGING TRAFFIC DEMAND AND TRAFFIC FLOW IN MULTI-JURISDICTIONAL WORK ZONES
Mehemed Delibasic, Manager, Transportation Planning, WSP Canada Inc.

11:40  THE REGINA BYPASS – THE JOURNEY SO FAR
Martin Rowland, Regina Bypass Project Director, Associated Engineering and David Stearns, Executive Director, Major Projects, Regina Bypass, Ministry of Highways and Infrastructure

MINISTRY OF TRANSPORTATION PRESENTATIONS (SES)
Kent Room, 2nd floor

Chair: Jennifer Fisk, Senior Business Consultant; PHMT Coordinator Provincial Highways Management Division, Ministry of Transportation

Organized by Ontario’s Ministry of Transportation

08:30  ACCELERATED BRIDGE CONSTRUCTION
   ○ REPLACEMENT OF BRIDGES BY HEAVY LIFT
      Dina Miron, Provincial Highways Management Division, Ministry of Transportation
   ○ REPLACEMENT OF BRIDGES BY JACK AND SLIDE
      Sherif Sidky, Provincial Highways Management Division, Ministry of Transportation
   ○ GIGO (GET IN GET OUT)
      Andy Turnbull, Provincial Highways Management Division, Ministry of Transportation

10:00  30 Minute Refreshment Break in the Exhibition

10:30  INNOVATIONS IN PAVEMENTS
   ○ HISTORY OF CONCRETE PAVEMENT IN ONTARIO
   ○ MTO RECYCLERS!
   ○ LIFE CYCLE COSTING AND ALTERNATIVE BID CONTRACTS
      Becca Lane, Provincial Highways Management Division, Ministry of Transportation
MOVING SMARTER IN CANADIAN CITIES – EXPLORING ENERGY AND GREENHOUSE GAS EMISSION REDUCTION SOLUTIONS - WHAT ARE THE CHALLENGES FOR 2030? (A) (SES)

Pine Room, Mezzanine Level

Chair: Martin Hotte, Transportation and Climate Change, Senior Policy Analyst, Ministère des Transports, de la Mobilité durable, et de l'Électrification des transports du Québec

Organized by TAC’s Sustainable Transportation Standing Committee

08:30  MAKE THE LAST MILE WORK
  Angela Gibson, Head, Performance Monitoring and Research, Regional Municipality of York; Tamas Hertel

09:00  NEW APPROACH IN MULTIMODAL DEMAND FORECASTING – IN SUPPORT OF PEEL REGION’S LONG RANGE TRANSPORTATION PLAN
  Eric Chan, Supervisor, Transportation Planning Engineering, Region of Peel

09:30  EXAMINING THE EVIDENCE: BENEFITS, COSTS AND OTHER IMPACTS OF CAR-SHARING PROGRAMS
  Jonathan Chai, Project Manager, HDR; Eric Petersen; Ali Darwiche

10:00  30 Minute Refreshment Break in the Exhibition

10:30  COMMUTING TRADE-OFFS OF TWO-WORKER HOUSEHOLDS IN THE GREATER TORONTO AREA (GTA)
  Saidal Akbari, PhD Candidate, University of Toronto

11:00  Interactive Wrap Up Discussion and Question and Answer Period

NEXT GENERATION REGIONAL CORRIDOR MANAGEMENT (SES)

Chestnut East Room, Mezzanine Level

Chair: Douglas Bardeau, Senior Application Development Professional, 3M Canada Company

Organized by TAC’s Traffic Operations and Management Standing Committee

08:30  THE IMPORTANCE OF AN INTEGRATED CORRIDOR MANAGEMENT APPROACH AT BORDERS AND THEIR SURROUNDING COMMUNITIES
  Ben Plested, Developmental Project Engineer, Ontario Ministry of Transportation

09:00  INTEGRATED CORRIDOR MANAGEMENT - A PRECURSOR TO CONNECTED VEHICLES AND AUTOMATED VEHICLES
  Roy Hulli, Senior Project Engineer, Ministry of Transportation of Ontario - ITS Policy, Planning and Program

09:30  HOT LANES: NORTH AMERICAN EXPERIENCE AND NEXT GENERATION APPROACHES
  Phil Masters, Senior Consultant, ITS, Parsons

10:00  30 Minute Refreshment Break in the Exhibition
10:30 EXPANDING THE APPLICABILITY AND POSITIVE IMPACT OF MANAGED LANES WITH THE CONVERGENCE OF ICM AND REVERSIBLE LANES
_Daniel Rathbone, Owner, DBR and Associates; Pierre Pretorius_

11:00 SIMULATING THE IMPACTS OF RFID ENABLED LANES AT THE CANADA-US BORDER: AN APPLICATION TO THE AMBASSADOR BRIDGE
_Shakil Khan, Research Associate, Cross Border Institute, University of Windsor; Hanna Maoh; William Anderson_

**P3 PROJECTS IN CANADA – LESSONS LEARNED AND THE ROAD AHEAD (PD)**
City Hall Room, 2nd floor

Chair: _Lisa Salsberg_, Senior Manager, Systems Planning, Planning and Policy, Metrolinx

_Organized by TAC’s Transportation Finance Standing Committee_

_Panelists_
- PUBLIC PRIVATE PARTNERSHIPS – PRIVATE SECTOR CONSIDERATIONS AND LESSONS LEARNED
  _Ron Aitken_, Vice President and Deputy Project Director, Crosslinx Transit Solutions Constructors
- PUBLIC PRIVATE PARTNERSHIPS – PUBLIC SECTOR CONSIDERATIONS AND LESSONS LEARNED
  _Fred Cummings_, Regional Manager, Western North America, Infrastructure, Hatch
- PUBLIC PRIVATE PARTNERSHIPS FOR TRANSIT - PUBLIC SECTOR CONSIDERATIONS AND LESSONS LEARNED
  _John Jensen_, Chief Capital Officer, Metrolinx

_Discussion and Question-and-Answer Period_
Panel includes a 30 minute refreshment break at 10:00 in the exhibition

**ROUNDABOUT DESIGN – OFF-SITE TOUR (WS)**

_Sponsor: GHD Limited_

Co-Chairs: _Steve van De Keere_, Director, Transportation, Region of Waterloo and _Phil Weber_, Principal Consultant, Roundabouts, GHD Limited

_Organized by TAC’s Joint Roundabout Subcommittee_

Travelling from Toronto to the Region of Waterloo, this bus tour will cover many aspects of roundabout implementation, including feasibility and design, safety performance and operations challenges such as snow clearing, pedestrian and cyclist accommodation including visually impaired pedestrians, accommodating trucks and ongoing public education and outreach. It will feature local experts in roundabouts sharing challenges and successes. Once onsite, participants will observe operating conditions via short walking tours of each roundabout, including a range of roundabout sizes, from single lane to three-lane roundabouts and one or more roundabout corridors, with up to six roundabouts. On the return trip, discussion and debrief will continue with reflection on observations and a look to the future of roundabout implementation.

** 7AM start time, delegates must have pre-registered for the tour in advance. Join the group in the TAC Conference registration foyer located on the concourse level 15 minutes prior to departure to check if space is still available.**
SAFETY AND ACTIVE TRANSPORTATION – PART I (WS)
Dominion Ballroom South, 2nd floor

Co-Chairs: Sheyda Saneinejad, Project Lead, City of Toronto and Pedram Izadpanah, Senior Project Manager, CIMA+

Organized by TAC’s Road Safety Standing Committee

This workshop will focus on challenges and opportunities in active transportation safety prioritization and tools. Toronto’s recent road safety plan will be introduced, with a particular focus on geospatial prioritization and safety countermeasure selection. Experts will also highlight best practices and key issues for cycling and pedestrian safety based on the experience and examples in Vancouver and Calgary, among other cities.

Participants will be able to apply their road safety knowledge in developing pedestrian and cycling safety solutions to sample locations in urban and suburban Toronto. A tour of key sites in Toronto will enhance the experience by highlighting specific challenges and opportunities.

08:30 INTRODUCTIONS

08:45 SETTING THE STAGE FOR ACTIVE TRANSPORTATION SAFETY
- DESIGNING FOR SAFETY – OLD AUTO ORIENTED APPROACH VERSUS NEW ACTIVE TRANSPORTATION PERSPECTIVES
  Matt Colwill, Associate, Manager, Transportation Engineering, IBI Group
- HUMAN FACTORS ISSUES IN COLLISIONS INVOLVING VULNERABLE ROAD USERS
  Thomas Smahel, Principal Consultant, Human Factors North Inc.

09:40 GROUP DISCUSSIONS ON PARTICIPANTS’ CHALLENGES IN ACTIVE TRANSPORTATION SAFETY

10:00 30 Minute Refreshment Break in the Exhibition

10:30 ANALYSIS AND DEVELOPMENT OF COUNTERMEASURES FOR TORONTO’S ROAD SAFETY PLAN
  Roger Browne, Manager, Traffic Safety, City of Toronto

11:00 SAFER WALKING, SAFER CYCLING: A SUMMARY OF KEY ISSUES AND BEST PRACTICES IN ASSESSING AND MEASURING PEDESTRIAN AND CYCLING SAFETY
  Brian Patterson, Principal, Senior Transportation Planner, Urban Systems

11:30 QUESTIONS, DISCUSSIONS AND MORNING WRAP-UP

SAFELY MANAGING ROAD USERS (A) (SES)
Cedar Room, Mezzanine Level

Chair: Tony Churchill, Senior Traffic Safety Engineer, City of Calgary

Organized by TAC’s Road Safety Standing Committee
08:30 IMPLEMENTING PHYSICAL TRAFFIC CALMING MEASURES – SOLUTIONS AND CHALLENGES  
Stephan Kellner, Deputy Director, Transportation Planning and Traffic, WSP

09:00 NEW CITY OF TORONTO DESIGN MANUAL FOR SIDEWALK CAFÉS AND APPLICATION OF THE PEDESTRIAN CLEARWAY MAPPING TOOL  
Janet Lo, Senior Project Manager, City of Toronto and Chris Ronson, Project Manager, City of Toronto Sheyda Saneinejad

09:30 BALANCING ACCESSIBILITY NEEDS  
Daphne Wee, Engineer, City of Toronto and Leigh Sherkin, Project Manager, City of Toronto

10:00 30 Minute Refreshment Break in the Exhibition

10:30 EMOJI VERSUS NUMBERS -- WHICH ONE IS BETTER?  
Stephan Kellner, Deputy Director, Transportation Planning and Traffic, WSP

11:00 IMPROVING PEDESTRIAN AND CYCLING SAFETY ALONG THE STANLEY PARK CAUSEWAY IN VANCOUVER, BC  
Jayson Walker, Principal, Transportation Engineer, Urban Systems Ltd.

STRUCTURES (A) (SES)  
Maple East/West Room, Mezzanine Level

Chair: Ruth Eden, Executive Director of Structures, Manitoba Infrastructure

Organized by TAC’s Structures Standing Committee

08:30 SLIP CHARACTERISTICS OF COMBINED METALLIZED/GALVANIZED FAYING SURFACES IN SLIP-CRITICAL BOLTED CONNECTIONS  
Éric Lévesque, Engineering Manager, New Products, Canam-Bridges and Maxime Ampleman, Junior Engineer, Canam-Bridges; Charles-Darwin Annan; Mario Fafard

09:00 APPLICATION OF PASSIVE INFRARED THERMOGRAPHY FOR THE DETECTION OF DEFECTS IN CONCRETE BRIDGE ELEMENTS  
Tarek Omar, PhD Candidate, University of Western Ontario; Moncef Nehdi

09:30 MTO 100 – 100 YEARS OF MTO BRIDGES  
Walter Kenedi, Head, Bridge Design, Ontario Ministry of Transportation (MTO)

10:00 30 Minute Refreshment Break in the Exhibition

10:30 WAVERLEY WEST ARTERIAL ROADS PROJECT - KENASTON OVERPASS  
Robert Taylor, Project Engineer, Dillon Consulting Limited; David Wiebe; Sylvia Loewen; Rados Eric

11:00 MOVING TO THE NEXT GENERATION OF BRIDGE ASSET MANAGEMENT  
Simon Bush, Technical Principal – Structures, Opus International Consultants
UPDATES FROM METROLINX: RAPID TRANSIT PROJECTS IN THE GREATER TORONTO AND HAMILTON AREA (PD)
Huron Room, 2nd floor

Chair: Peter Paz, Manager, Regional Partnerships, Planning and Policy, Metrolinx

Organized by Metrolinx

**Panelists**
- GO REGIONAL EXPRESS RAIL
- LRT AND BRT IN THE GTHA
- DESIGN EXCELLENCE AT METROLINX
- TDM TO SUPPORT RAPID TRANSIT EXPANSION
- UP EXPRESS
- PRESTO FARE CARD UPDATE

*Discussion and Question-and-Answer Period*
*Panel includes a 30 minute refreshment break at 10:00 in the exhibition*

URBAN MOBILITY EMERGING ISSUES - WHAT ARE WE DOING AND WHERE ARE WE GOING? (PD)
Civic Ballroom South, 2nd floor

Chair: Mark Stout, Project Manager, Sustainable Transportation Planning, WSP

Organized by TAC’s Sustainable Transportation Standing Committee

**Panelists**
- THE FUTURE OF URBAN PARKING POLICY IN A DIVERSE AND COMPLEX URBAN AGENDA
  Ralph Bond, Urban Parking Policy Consultant, BA Group
- LIKE IT OR NOT - TRANSPORTATION AS SOLUTION TO PUBLIC HEALTH
  Eileen de Villa, Medical Officer of Health, Peel Region
- AUTONOMOUS VEHICLES - VIRTUE OR VICE?
  Bern Grush, Automated Vehicle Strategist, Grush Niles Strategic
- EQUITY IN TRANSPORTATION - WHAT IS IT, AND WHY SHOULD WE CARE?
  Sean Hertel, Urban Planning Consultant, Sean Hertel

*Discussion and Question-and-Answer Period*
*Panel includes a 30 minute refreshment break at 10:00 in the exhibition*

PRACTICAL APPLICATIONS FOR EMBANKMENTS AND GEOHAZARDS (SES)
Chestnut West Room, Mezzanine Level

Chair: Mark Popik, Associate, Senior Pavement Engineer, Thurber Engineering Ltd.
10:30  SETTLEMENT MITIGATION BY USING CELLULAR CONCRETE AT NEPEWASSI RIVER BRIDGE, ONTARIO – A CASE STUDY  
Ken Ahmad, Senior Foundations Engineer, Ministry of Transportation of Ontario; Tony Sangiuliano; Brad Dolton; Tim Smith

10:50  APPLICATION OF MECHANICALLY STABILIZED EARTH WALL WITH GEO-SYNTHETIC STRAP SOIL REINFORCEMENT FOR FALSE ABUTMENT STRUCTURES  
Fraser Mitchell, Project Coordinator, Reinforced Earth Company; Daniel Calatrava

11:10  GEOTECHNICAL ASSET MANAGEMENT APPROACH AT MINISTÈRE DES TRANSPORTS, DE LA MOBILITÉ DURABLE ET DE L’ÉLECTRIFICATION DES TRANSPORTS DU QUÉBEC (DÉVELOPPEMENT DE LA GESTION DES ACTIFS GÉOTECHNIQUES AU MINISTÈRE DES TRANSPORTS, DE LA MOBILITÉ DURABLE ET DE L’ÉLECTRIFICATION DES TRANSPORTS DU QUÉBEC)  
Marie-Christine Delisle, Service de la géotechnique et de la géologie, Section Mécanique des sols, Ministère des Transports, de la Mobilité durable et de l’Électrification des transports du Québec; Eric David  
* Presentation in French

11:30  THE EFFECTIVENESS OF AN UNMANNED AERIAL VEHICLE (UAV) TO HELP EVALUATE GEOTECHNICAL ASSETS  
Laird Ferguson, MScE Candidate, University of New Brunswick; Mike Wolfe; Jared McGinn; Lloyd Waugh

TRANSPORTATION DEMAND CHALLENGES WITH SPECIAL EVENTS IN SMALL MUNICIPALITIES (PD)  
Civic Ballroom North, 2nd floor

Chair: Maureen Van Ravens, CET, Manager of Transportation and Development Engineering, Town of Halton Hills

Organized by TAC’s Small Municipalities Task Force

Panelists

- PLANNING FOR THE PELETON-GRANDE PRAIRIE’S EXPERIENCE HOSTING THE OPENING STAGE OF THE TOUR OF ALBERTA  
  Robert Carroll, Manager of Transportation Services, City of Grande Prairie, Alberta
- MILTON/HALTON OPERATIONAL PLAN FOR THE PAN AM AND PARAPAN AM GAMES IN 2015  
  Heide Schlegl, Coordinator, Traffic and Parking, Town of Milton
- EVALUATION AND OPTIMIZATION OF TRAFFIC MANAGEMENT AND PARKING FOR A RURAL FESTIVAL  
  Keenan Patmore, Transportation Engineer, MORR Transportation Consulting
- TRAFFIC ACCOMMODATION FOR THE TOUR OF ALBERTA CYCLING EVENT IN LETHBRIDGE  
  Mohammed Ahmed Ali, Transportation Engineering Manager, City of Lethbridge

Discussion and Question-and-Answer Period

INNOVATION IN GEOTECHNICAL AND MATERIALS ENGINEERING (SES)  
Chestnut West Room, Mezzanine Level
Chair: David Hein, Vice-President, Transportation, Applied Research Associates, Inc.

Organized by TAC’s Soils and Materials Standing Committee

13:45 INNOVATIVE MATERIALS FOR ROAD INSULATION IN COLD CLIMATES: FOAM GLASS AGGREGATES
   Pauline Segui, Post-doctoral fellow, Laval University; Guy Doré; Jean-Pascal Bilodeau; Stéphane Morasse

14:15 GROUND IMPROVEMENT FOR EMBANKMENT DESIGN AND CONSTRUCTION – A CASE STUDY ON HIGHWAY 15
   AND CROSBY CREEK
   Tony Sangiuliano, Senior Foundation Engineer, Ministry of Transportation of Ontario; Fin Heffernan; Paul
   Carnaffan; Mark Tigchelaar; William Cavers; Jason Brown

14:45 PAVEMENT STRUCTURAL ASSESSMENT USING FINITE ELEMENT MODELING AND MECHANISTIC GEOTECHNICAL
   TOOLS
   Curtis Berthelot, President and Chief Technical Officer, PSI Technologies Inc.; Roberto Soares; Duane Guenther;
   Rielle Haichert; Diana Podborochynski; Brent Marjerison

ETHICS: IT’S YOUR CHOICE! FURTHERING THE DISCUSSION ROUNDTABLE (PD)
City Hall Room, 2nd floor

Chair: Harmony McKinney-Bumstead, CET, Division Support Advisor, Engineering and Operations, Manitoba Infrastructure

Organized by TAC’s Education and Human Resources Development Council

This interactive polling roundtable will be based on the Ethics: It’s YOUR Choice! panel at the Plenary Session held on
Monday, September 26. Focus will be on ethical awareness and trends in the transportation industry and what
professionals need and want from their employers in terms of ethical behavior.

Roundtable participants:
- Members of TAC’s Education and Human Resources Development Council
- Maureen Van Ravens, CET, Manager of Transportation and Development Engineering, Town of Halton Hills
- Carl Clayton, Executive Vice-President, International, Stantec Consulting Ltd.

SAFELY MANAGING ROAD USERS (B) (SES)
Cedar Room, Mezzanine Level

Chair: Pedram Izadpanah, Senior Project Manager, CIMA

Organized by TAC’s Road Safety Standing Committee

13:45 ROUNDABOUTS IN THE REGION OF WATERLOO
   Phil Weber, Principal Consultant, Roundabouts, GHD Ltd.

14:05 RAILWAY SAFETY AT GRADE CROSSINGS
   Jay Rieger, Chief Engineer, Transport Canada
14:25 HIGHWAY 881 CORRIDOR MANAGEMENT PLAN
René Rosvold, Transportation Planning Engineer, CIMA+; Henry Devos; John Morrall

14:45 TRAFFIC SIGNALS ON RURAL HIGHWAYS: IF AN AGENCY DOESN'T HAVE ANY, SHOULD IT START NOW?
Kevin Sturgeon, Transportation Planning Engineer, Associated Engineering and Jeffrey Holland, Senior Project Manager, Design and Traffic Engineering Standards, Saskatchewan Ministry of Highways and Infrastructure

TUESDAY, SEPTEMBER 27 – 13:45-17:15

BIG DATA APPLICATIONS FOR TRAVEL DEMAND MANAGEMENT (SES)
Linden Room, Mezzanine Level

Chair: Timothy Spurr, Expert, Modélisation, Agence métropolitaine de transport

Organized by TAC’s Transportation Planning and Research Standing Committee

13:45 COUNTINGAPP: WSP’S BIG DATA VIDEO TREATMENT APPLICATION
François Belisle, Project Leader, WSP

14:15 AN INVESTIGATION OF TRAFFIC STATE CLASSIFICATION AT INTERSECTIONS USING VEHICLE DELAY DISTRIBUTIONS
Sajad Shiravi, PhD Candidate, University of Waterloo; Liping Fu

14:45 MEASURING CONGESTION USING LARGE-SCALE SMARTPHONE-COLLECTED GPS DATA IN AN URBAN ROAD NETWORKS
Joshua Stipancic, PhD Candidate, McGill University; Luis Miranda-Moreno; Aurelie Labbe

15:15 30 Minute Refreshment Break in the Exhibition

15:30 OPERATIONALIZING BIG DATA: HACKATHONS AND NETWORK UNRELIABILITY
Scott Fraser, Acting Program Manager, City of Toronto; Michelle Berquist

16:00 HOUSEHOLD-BASED MODELS OF DAYCARE UTILIZATION AND DAYCARE LOCATION CHOICE
Adam Weiss, Research Assistant, University of Toronto; Khandker M. Nurul Habib; James Lamers

EFFICIENT TRANSPORTATION – MANAGING THE CONSTRUCTION DEMAND (A) (SES)
Maple East/West Room, Mezzanine Level

Chair: Hector Moreno, Manager, Road Operation, Transportation Services, City of Toronto

Organized by TAC’s Maintenance and Construction Standing Committee

13:45 DESIGN AND CONSTRUCTION OF A MULTI-LANE EXPANDABLE ROUNDABOUT
Glenn McCarron, Construction Inspector, Stantec Consulting Ltd.

14:15 WORKZONE CAPACITY AND WORKZONE ATTRIBUTES
Goran Nikolic, Head Central Region Traffic Planning, Ministry of Transportation of Ontario; Ali Hadayeghi; Pedram Izadpanah; Brenda McCabe; Susan L. Tighe
14:45  STATE OF THE ART OF HOV/HOT
Shawna Boakes, Associate, Dillon Consulting Limited; Syd Bowcott

15:15  30 Minute Refreshment Break in the Exhibition

14:15  'NEXT' PRACTICES IN PROJECT DELIVERY DRIVES ROADWAY SUCCESS
Jake Smithwick, Researcher, Arizona State University; Des Mryglod, Director, Public Works and Engineering, Leduc County and Colin Roggeveen, Principal, Senior Project Manager, RPM Consulting Services Inc.

14:45  THE REGINA BYPASS - THROUGH PROCUREMENT AND START UP
Martin Rowland, Regina Bypass Project Director, Associated Engineering; David Stearns, Executive Director, Major Projects, Regina Bypass, Ministry of Highways and Transportation and Alisdair Dickinson, DBJV Project Director, Regina Bypass Design Builders

INNOVATIONS IN PAVEMENT MANAGEMENT, ENGINEERING AND TECHNOLOGIES - PERFORMANCE AND MANAGEMENT APPLICATIONS (SES)
Pine Room, Mezzanine Level

Chair: Amir Abd El Halim, Principal, Stantec Consulting Ltd.

Organized by TAC’s Pavements Standing Committee

13:45  EFFECT OF SEASONAL FROST
Guy Doré, Titulaire de la chaire industrielle du CRSNG i3C, Chaire I3C - Université Laval; Laurie-Anne Gregoire; Jean-Pascal Bilodeau

14:15  TRANSITION FROM MANUAL TO AUTOMATED PAVEMENT DISTRESS DATA COLLECTION AND PERFORMANCE MODELLING IN THE PAVEMENT MANAGEMENT SYSTEM
Susanne Chan, Pavement Design Engineer, Ministry of Transportation of Ontario; Sam Cui; Stephen Lee

14:45  PAVEMENT MANAGEMENT SYSTEM DEVELOPMENT FOR THE P3 CONCESSION OF THE SOUTH FRASER PERIMETER ROAD
Bryan Palsat, Pavements and Materials Engineer, Tetra Tech EBA; Alan Reggin; Martina Riessner; Ian Galsworthy

15:15  30 Minute Refreshment Break in the Exhibition

15:45  EVOLUTION OF PAVEMENT PERFORMANCE SPECIFICATIONS - INTEGRATION OF RISK AND PAVEMENT ASSET MANAGEMENT DATA
Stephen Lee, Head, Pavements and Foundation Section, Ministry of Transportation of Ontario; Tom Kazmierowski; Dale Smith

16:15  PERFORMANCE OF A PERPETUAL PAVEMENT ON HIGHWAY 406 IN ONTARIO
Susanne Chan, Pavement Design Engineer, Ministry of Transportation of Ontario; Becca Lane

16:45  LIFE CYCLE COST ANALYSIS TO IDENTIFY SUSTAINABLE PAVEMENT MAINTENANCE AND REHABILITATION STRATEGY
Gulfam Jannat, PhD Candidate, University of Waterloo; Susan L. Tighe
MINISTRY OF TRANSPORTATION PRESENTATIONS (PD)
Kent Room, 2nd floor

Chair: Jennifer Fisk, Senior Business Consultant; PHMT Coordinator Provincial Highways Management Division, Ministry of Transportation

Organized by Ontario’s Ministry of Transportation

13:45  ALTERNATIVE DELIVERY MODELS AT MTO- PANEL DISCUSSION
Moderator: Neil Zohorsky, Provincial Highways Management Division, Ministry of Transportation

Panelists:
- Dan Green, Manager, Transportation, WSP/MMM Group
- Max Mantha, General Manager and Area Manager, Looby Construction
- Brenda Liegler, Contract Innovations Engineer, Provincial Highways Management Division, Ministry of Transportation

15:15  30 Minute Refreshment Break in the Exhibition

15:45  INFRASTRUCTURE ONTARIO
- EXPANDING ONTARIO’S TRANSIT AND TRANSPORTATION INFRASTRUCTURE
  Chris Gauer, Executive Vice President, Civil - Roads and Transit, Infrastructure Ontario
- WILDLIFE CONSERVATION ON THE HIGHWAY 69 PROJECT PRESENTED BY TERRI ROGERS, PROVINCIAL HIGHWAYS MANAGEMENT DIVISION, MINISTRY OF TRANSPORTATION
  Mathew Kattapuram, Senior Vice President, Strategic Business Development, Aecon
- ENHANCED FISH PASSAGE PRESENTED BY KIRSTIE HOUSTON, PROVINCIAL HIGHWAYS MANAGEMENT DIVISION, MINISTRY OF TRANSPORTATION
  Martin Stickland, Senior Vice President, Plenary Group

MOVING SMARTER IN CANADIAN CITIES – EXPLORING ENERGY AND GREENHOUSE GAS EMISSION REDUCTION SOLUTIONS - WHAT ARE THE CHALLENGES FOR 2030? (B) (SES)
Birchwood Ballroom, Mezzanine Level

Chair: Martin Hotte, Transportation and Climate Change, Senior Policy Analyst, Ministère des Transports, de la Mobilité durable et de l’Électrification des transports du Québec

Organized by TAC’s Sustainable Transportation Standing Committee

Lisa Salsberg, Senior Manager, Systems Planning, Planning and Policy, Metrolinx

14:15  CAN WE GIVE UP VEHICLE LANES IN DOWNTOWN OTTAWA?
Kornel Mucsi, Program Manager- Transportation Strategic Planning, City of Ottawa; Jennifer Armstrong

14:45  PULLING TOGETHER FOR A NEW TRANSPORTATION FUTURE FOR ST. ALBERT
Carolyn Sherstone, Transportation Engineer, Associated Engineering and Kent Eklund, Transportation Division Manager, Associated Engineering
15:15  30 Minute Refreshment Break in the Exhibition

15:45  MOVING SMARTER IN MONTRÉAL (INITIATIVES MONTRÉALAISES POUR SE DÉPLACER PLUS INTELLIGEMMENT)
Gilles Dufort, Chef de la division Planification des transports et de la mobilité, Ville de Montréal; Julie Guicheteau
* Presentation in French

16:15  ACTION PLAN IN TRANSPORTATION ELECTRIFICATION (PLAN D’ACTION EN ÉLECTRIFICATION DES TRANSPORTS)
Martin Hotte, Transportation and Climate Change, Senior Policy Analyst, Ministère des Transports, de la Mobilité
durable et de l’Électrification des transports du Québec; Evangéline Lévesque
* Presentation in French

16:45  Interactive Wrap Up Discussion and Question and Answer Period

MTO’S 100TH ANNIVERSARY – A HISTORY OF ROAD SAFETY INITIATIVES AND WHAT THE NEXT 100 YEARS MAY INCLUDE (PD)
Civic Ballroom South, 2nd floor

Chair: Michael Pardo, Traffic Operations Engineer, Ontario Ministry of Transportation

Organized by TAC’s Road Safety Standing Committee

Panelists
- A GLANCE AT ROAD SAFETY ISSUES IN ONTARIO, 1916-2016
  Lloyd Robertson, Team Lead, Road Safety Research Office, Ontario Ministry of Transportation
- ROAD SAFETY FEATURES OF THE MINISTRY’S MANAGED LANE DESIGN
  Nancy Adriano, Head, Safety, Traffic Information and Roadwork Coordination, Ontario Ministry of Transportation
- USING TECHNOLOGY AND DESIGN TO IMPROVE ROAD SAFETY
  Geoff Fernie, Institute Director, Research, Toronto Rehabilitation Institute
- WINNING THE FIGHT AGAINST DRINKING AND DRIVING IN ONTARIO: LESSONS FROM THE LAST TWO DECADES
  Tracey Ma, Team Lead, Road Safety Research Office, Ontario Ministry of Transportation and Patrick Byrne,
  Senior Research Advisor, Road Safety Research Office, Ontario Ministry of Transportation
- THE SCIENCE OF HIGHWAY SAFETY - YESTERDAY, TODAY, TOMORROW
  Michael Pardo, Traffic Operations Engineer, Ontario Ministry of Transportation

Discussion and Question-and-Answer Period
Panel includes a 30 minute refreshment break at 15:15 in the exhibition

NEXT GENERATION TRANSPORTATION MANAGEMENT CENTERS (SES)
Chestnut East Room, Mezzanine Level

Chair: Daniel Beaulieu, Project Management Engineer, Ville de Montréal

Organized by TAC’s Traffic Operations and Management Standing Committee
13:45  HELPING AUTONOMOUS VEHICLES AT SIGNALIZED INTERSECTIONS  
Ousama Shebeeb, Traffic Signals Engineer, Ministry of Transportation of Ontario

14:15  GEO-TRAFIC: CITY OF MONTREAL REAL-TIME MOBILITY PLATFORM  
Olivier Audet, ITS Engineer, Ville de Montréal

14:45  DESIGN CONSIDERATIONS FOR UPDATING TORONTO’S TRANSPORTATION OPERATION CENTRE (TOC)  
Stephen Huang, Traffic Engineer, City of Toronto, Traffic Management Centre

15:15  30 Minute Refreshment Break in the Exhibition

15:45  TRAFFIC DATA COLLECTION USING THERMAL CAMERA UNDER VARYING LIGHTING AND TEMPERATURE CONDITIONS IN MULTIMODAL ENVIRONMENTS  
Ting Fu, PhD Candidate, McGill University; Joshua Stipancic; Sohail Zangenehpour; Luis Miranda-Moreno; Nicolas Saunier

16:15  THE NEW MTO CENTRAL REGION COMPASS TRAFFIC MANAGEMENT CENTRE  
Ken Tai, Project Manager, Ministry of Transportation of Ontario and Ian Nelson, Associate, IBI Group

16:45  LAYING THE FOUNDATION FOR NEXT GENERATION ITS – CITY OF MISSISSAUGA ATMS UPGRADE  
Bill Daeuber, Project Manager, City of Mississauga and Richard Chylinsiki, ITS Project Manager, Parsons

SAFETY AND ACTIVE TRANSPORTATION – PART II (WS)  
Dominion Ballroom South Room, 2nd floor

Co-Chairs: Sheyda Saneinejad, Project Lead, City of Toronto and Pedram Izadpanah, Senior Project Manager, CIMA+

Organized by TAC’s Road Safety Standing Committee

13:45  INTRODUCTION OF INTERACTIVE GROUP ACTIVITY  
Roger Browne, Manager, Traffic Safety, City of Toronto

14:05  GEOMETRIC SAFETY DESIGN MOBILE WORKSHOP (OFF-SITE)  
SUCCESSFULLY IMPLEMENTED PRECEDENTS AND PROBLEMS SEEKING INPUT  
Mark van Elsberg, Project Manager, City of Toronto

16:45  OFF-SITE WRAP UP

17:15  RETURN TO SHERATON HOTEL

UPDATES FROM METROLINX: EMERGING ISSUES FOR THE NEXT REGIONAL TRANSPORTATION PLAN (PD)  
Huron Room, 2nd floor

Chair: Lisa Salsberg, Senior Manager, Systems Planning, Planning and Policy, Metrolinx
Organized by Metrolinx

- BLUEPRINT FOR TOMORROW’S TRANSPORTATION SYSTEM: WHAT WE KNOW, WHAT WE KNOW WE DON’T KNOW, AND OTHER BIG QUESTIONS
  Antoine Belaieff, Director, Regional Planning, Metrolinx

Panel Discussion: SOCIAL EQUITY AND TRANSIT IN THE GREATER TORONTO AND HAMILTON AREA

Panel Discussion: NEW MOBILITY - IMPLICATIONS FOR THE NEXT REGIONAL TRANSPORTATION PLAN

Discussion and Question-and-Answer Period
Panel includes a 30 minute refreshment break at 15:15 in exhibition

WHAT CITY PLANNERS PROPOSE FOR TRANSPORTATION ENGINEERS – A SHIFT IN PARADIGM (PD)
Civic Ballroom North, 2nd floor

Chair: Zane Sloan, Manager, Highway Design and Construction, ISL Engineering and Land Services Ltd.

Organized by TAC’s Geometric Design Standing Committee

Panelists
- City Planners from Halifax, Toronto, Calgary and Abbotsford

Discussion and Question-and-Answer Period
Panel includes a 30 minute refreshment break at 15:15 in exhibition

EFFICIENT TRANSPORTATION – MANAGING THE CONSTRUCTION DEMAND (B) (SES)
Linden Room, Mezzanine Level

Chair: Jean-Luc Lambert, Support Services Engineer, City of Winnipeg Public Works

Organized by TAC’s Maintenance and Construction Standing Committee

08:30  A TWIST IN CALGARY ROADS - SQUEEZING IN CANADA’S FIRST DDI
  Dominic Cheng, Transportation Engineer, ISL Engineering and Land Services Ltd.; David Breu; Kara Wolfe

09:00  HODDER AVENUE UNDERPASS: INNOVATIVE USE OF ULTRA HIGH PERFORMANCE CONCRETE FOR RAPID BRIDGE CONSTRUCTION
  Philip Murray, Vice-President, Hatch; Biljana Rajlic, Robert Burak

09:30  KING ROAD/RAIL GRADE SEPARATION – AN INNOVATIVE CONSTRUCTION OF A NEW ROAD UNDERPASS
  Tom Eichenbaum, Senior Project Advisor, Hatch Infrastructure and Bob Jurk, Senior Project Manager, Design and Construction - Capital Works Department, City of Burlington; Scott Hamilton; Terry Kelly
RESPONDING TO THE SAFETY NEEDS AND EXPECTATIONS OF RESIDENTS AND OTHER ROAD USERS (NON-MOTORISTS) (SES)
Cedar Room, Mezzanine Level

Chair: Thomas Smahel, Principal Consultant, Human Factors North Inc.

Organized by TAC's Road Safety Standing Committee

08:30  GET THERE TOGETHER: LANGUAGE AND MESSAGING IN MEDIA ON TRANSPORTATION SAFETY
Sarah Freigang, Transportation Planner, Urban Systems

09:00  "FROM MILE ZERO TO TARGET ZERO" - THE DAWSON CREEK CASE STUDY
Raheem Dilgir, President and Road Safety Expert, TranSafe Consulting Ltd.

09:30  SPEED FEEDBACK SIGNS AS A TOOL TO MANAGE THE DEMAND FOR LOWER RESIDENTIAL SPEEDS
Tony Churchill, Senior Traffic Safety Engineer, City of Calgary; Surendra Mishra

WEDNESDAY, SEPTEMBER 28 – 08:30-12:00

BETTER CYCLING TODAY: LEADERSHIP IN CANADIAN CITIES (PD)
Civic Ballroom North, 2nd floor

Chair: David MacIsaac, Active Transportation Supervisor, Transportation and Public Works, Halifax Regional Municipality

Organized by TAC's Sustainable Transportation Standing Committee

Panelists

• #BIKETORIA: HOW VICTORIA PLANS TO BECOME THE BEST SMALL CITY IN THE WORLD FOR CYCLING
  Brian Patterson, Principal and Senior Transportation Planner, Urban Systems

• A NEW PLAN TO CONNECT, GROW AND RENEW TORONTO'S CYCLING NETWORK
  Jacquelyn Hayward Gulati, Manager of Cycling Infrastructure and Programs, Transportation Services, City of Toronto

• PLANNING THE BLUE ROUTE IN NOVA SCOTIA
  Elizabeth Pugh, Special Projects Engineer, Nova Scotia Department of Transportation and Infrastructure Renewal

• MONTREAL'S CYCLING INFRASTRUCTURE (MONTRÉAL ET SON INFRASTRUCTURE CYCLABLE)
  Katie Tremblay, Section Chief, Active Transportation and Transit Division, Ville de Montréal
  * Presentation in French

• PUBLIC BIKE SHARE AND INNOVATIVE CYCLING INFRASTRUCTURE FOR THE MID-SIZED CITY: THE HAMILTON EXPERIENCE
  Peter Topalovic, Project Manager, Sustainable Mobility Programs, Public Works Department, City of Hamilton

• CYCLING SAFETY STUDY: HOW VANCOUVER IS IMPROVING CYCLING SAFETY FOR PEOPLE OF ALL AGES AND ABILITIES
  Brian Patterson, Principal and Senior Transportation Planner, Urban Systems

Discussion and Question-and-Answer Period
Panel includes a 30 minute refreshment break at 10:00 in the exhibition
CANADIAN AND INTERNATIONAL EXPERIENCE TRANSPORTING USED NUCLEAR FUEL (PD)

City Hall Room, 2nd floor

**Sponsor: Nuclear Waste Management Organization**

Chair: *Elena Mantagaris*, Director, Government and External Relations, Nuclear Waste Management Organization

**Organized by the Nuclear Waste Management Organization**

**Panelists**

- INTERNATIONAL REGIME FOR TRANSPORT OF USED FUEL AND WASTE MATERIALS  
  *Eileen Supko*, North American Representative, World Nuclear Transport Institute
- TITLE TO BE CONFIRMED  
  Representative from United Kingdom or France
- A HISTORICAL LOOK AT USED NUCLEAR FUEL TRANSPORTATION IN THE UNITED STATES  
  *Dr. Kevin J. Connolly*, R&D Staff Associate, Oak Ridge National Laboratory (USA)
- WASTE ISOLATION PILOT PLANT TRANSPORTATION PROGRAM  
  *Ron Ross*, Former Program Manager, Transportation, Environment and Radioactive Waste Policy, Western Governors’ Association (USA)
- REGULATING THE TRANSPORT OF NUCLEAR SUBSTANCES IN CANADA  
  *Rajesh Garg*, Transport Specialist, Canadian Nuclear Safety Commission
- SAFE TRANSPORTATION OF RADIOACTIVE MATERIALS AT ONTARIO POWER GENERATION  
  *Rob Lamont*, Transportation Officer, Ontario Power Generation (Canada)
- OVERVIEW OF NWMO’S TRANSPORTATION TECHNICAL PROGRAM  
  *Chris Hatton*, Director, Nuclear Design and Transportation, Nuclear Waste Management Organization (Canada)
- DEVELOPING A SOCIAL FRAMEWORK FOR THE TRANSPORTATION OF USED NUCLEAR FUEL  
  *Elena Mantagaris*, Director, Government and External Relations, Nuclear Waste Management Organization (Canada)

**Discussion and Question-and-Answer Period**

*Panel includes a 30 minute refreshment break at 10:00 in the exhibition*

CONNECTED AND AUTOMATED VEHICLES – HOW CAN CANADA GET READY? (WS)

Dominion Ballroom North, 2nd floor

**Sponsor: CIMA+**

Chair: *Ryan Klomp*, Acting Director, Transport Canada

**Organized by TAC’s Traffic Operations and Management Standing Committee**

This workshop will help attendees understand the current state of connected and automated vehicles technology and commercialization timelines. Potential implications on transportation infrastructure and operations will be presented, as well as required actions to capture and maximize the potential safety, efficiency, and mobility benefits of these technologies.
• THE EVOLUTION OF ITS AND CONNECTED VEHICLES  
  *Stephen Erwin*, Head, ITS Futures Project, Ministry of Transportation of Ontario

• AN OVERVIEW OF AUTOMATED VEHICLES AND HOW THEY WILL TRANSFORM ROAD TRAVEL  
  *Richard Bishop*, Automated Vehicles Industry Analyst, Bishop Consulting

• LESSONS LEARNED FROM CONNECTED VEHICLE PILOT TESTING  
  *Collin Castle*, MDOT Connected Vehicle Specialist, Michigan Department of Transportation

• DRIVING CHANGES: AUTOMATED VEHICLES IN TORONTO  
  *Ryan Lanyon*, Manager, Street Furniture, City of Toronto

• IMPORTANT CONSIDERATIONS FOR JURISDICTIONS LOOKING AT INCORPORATING V2I INTO THEIR TRANSPORTATION SYSTEM  
  *Carl Andersen*, Connected Vehicle Program Manager, Federal Highway Administration

• AUTOMATED VEHICLE WORK WITHIN THE CANADIAN COUNCIL OF MOTOR TRANSPORT ADMINISTRATORS  
  *Wendy Doyle*, Executive Director, Traffic Safety, Alberta Transportation

*Workshop includes a 30 minute refreshment break at 10:00 in the exhibition*

### GEOMETRIC DESIGN – LESSONS LEARNED (SES)

Chestnut West Room, Mezzanine Level

**Sponsor:** Arup

Chair: *Bob W. Koziol*, Discipline Lead, Municipal Roads, WSP | MMM Group Limited

*Organized by TAC's Geometric Design Standing Committee*

08:30  THERE IS COMPLEXITY IN BEAUTY; ENGINEERING TORONTO'S NEW WATERFRONT BOULEVARD  
  *Marc-Paul Gauthier*, Senior Technologist, Arup

09:00  A ROUNDBOARD CASE STUDY: HIGHWAY 62 AND MOIRA / RIDGE ROAD INTERSECTION IMPROVEMENTS  
  *Kevin Phillips*, Manager, Municipal Transportation, AECOM; *Joanne Wang*

09:30  MAKING A CASE FOR MICROSIMULATION AS A CONCEPT DEVELOPMENT TOOL: CASE STUDIES OF INNOVATIVE DESIGN CONCEPTS  
  *Smith Siromaskul*, Senior Professional Associate, HDR; *Karen Giese*

10:00  30 Minute Refreshment Break in the Exhibition

10:30  PARSONS INTERCHANGE; EFFICIENT TRANSPORTATION - MANAGING DEMAND  
  *Roy Biller*, Manager, Highway Design and Construction, ISL Engineering and Land Services Ltd.; *George Trefanenko*; *Ian Pestano*

11:00  TAC’S NEW CANADIAN ROUNDBOARD DESIGN GUIDE – 2016  
  *Tom Eichenbaum*, Senior Engineer, Hatch Infrastructure; *Gene Chartier*; *Michael MacDonald*; *Mitchell Jacobson*
INNOVATIONS IN PAVEMENT MANAGEMENT, ENGINEERING AND TECHNOLOGIES - DESIGN APPLICATIONS (SES)

Pine Room, Mezzanine Level

Chair: Marta Juhasz, Director, Surfacing Engineering, Alberta Transportation

Organized by TAC’s Pavements Standing Committee

08:30 MECHANISTIC-EMPIRICAL DESIGN OF UNPAVED ROADS
Guy Doré, Titulaire de la chaire industrielle du CRSNG i3C, Chaire I3C - Université Laval; Mickael Le Vern, Jean-Pascal Bilodeau

09:00 PAVEMENT DESIGN FOR LARGE ELEMENT PAVING SLABS

09:30 COLOURED ASPHALT BUS RAPID TRANSIT LANES IN THE REGIONAL MUNICIPALITY OF YORK: INTEGRATING LABORATORY PERFORMANCE TESTING INTO SUSTAINABLE PAVEMENT ASSET MANAGEMENT
Sina Varamini, PhD Candidate and Graduate Researcher, Centre for Pavement and Transportation Technology (CPATT), University of Waterloo; Mehran Kafi Farashah; Mohab El-Hakim; Susan L. Tighe

10:00 30 Minute Refreshment Break in the Exhibition

10:30 MODELING PAVEMENT RESPONSE TO SUPERHEAVY LOAD MOVEMENT
Shila Khanal, Pavement Engineer, Applied Research Associates Inc.; Chris Olidis; David Hein

11:00 USE OF FWD, GPR AND IP IN COMBINATION ON COMPLEX PAVEMENT PROJECTS – INCLUDING CASE STUDIES
Ludomir Uzarowski, Principal, Senior Pavement and Materials Engineer, Golder Associates Ltd.; Vimy Henderson; Rabiah Rizvi; Venkat Lakavalli; Karim Mohammad

11:30 LOCAL CALIBRATION OF CRACKING MODELS IN MEPDG FOR ONTARIO’S FLEXIBLE PAVEMENT
Sifat Ahmed, Graduate Student, Ryerson University; Warren Lee; Ningyuan Li

MAKING TRANSPORTATION MORE EFFICIENT DURING THE 2015 PAN AM GAMES IN TORONTO (SES)

Chestnut East Room, Mezzanine Level

Chair: Ron Stewart, Deputy Regional Director, Canada East, IBI Group

Organized by TAC’s Traffic Operations and Management Standing Committee

08:30 VENUE MICRO MODELLING AND TRAFFIC MANAGEMENT FOR THE 2015 PAN / PARAPAN AM GAMES
Carl Wong, Associate Vice-President, Traffic Lead, HDR Corporation

09:00 PAN AM GAMES, TRAFFIC NETWORK MONITORING AND POST-PROCESSING
Goran Nikolic, Head Central Region Traffic Planning, Ministry of Transportation of Ontario; Behzad Rouhieh; Rob Pringle; Ali Hadayeghi
09:30  DATA FOR THE 2015 PAN AM GAMES  
Richard Chylinski, Manager, Parsons and Roy Hulli, Senior Project Engineer, Ministry of Transportation Ontario, ITS Policy, Planning & Program

10:00  30 Minute Refreshment Break in the Exhibition

10:30  MAKING TRANSPORTATION MORE EFFICIENT DURING THE TORONTO 2015 PAN AM / PARAPAN AM GAMES  
Andrea Lendak, Associate, IBI Group; Gary Jamieson

11:00  COORDINATED NETWORK MANAGEMENT – LEGACY OPPORTUNITIES FROM THE TORONTO 2015 PAN AND PARAPAN AMERICAN GAMES  
Susan Boot, Operations Manager, Ministry of Transportation of Ontario; David Kamnitzer

11:30  GAMES-TIME ANALYTICS: THE ROLE DATA PLAYED DURING THE 2015 PAN AM /PARAPAN AM GAMES  
Jesse Coleman, Big Data Innovation Team Lead, Transportation Services, City of Toronto; Aakash Harpalani; Cheryl Clarke; Hollie-Anne Cairns

MINISTRY OF TRANSPORTATION PRESENTATIONS (SES)  
Kent Room, 2nd floor

Chair: Jennifer Fisk, Senior Business Consultant; PHMT Coordinator Provincial Highways Management Division, Ministry of Transportation

Organized by Ontario’s Ministry of Transportation

08:30  IMPROVING SAFETY FOR ALL ROAD USERS
- PRELIMINARY EVALUATION OF THE SENIOR DRIVER RENEWAL PROGRAM  
Maryam Haya, Road User Safety Division, Ministry of Transportation
- CUTTING-EDGE RESEARCH ON DRUGS AND DRIVING IN ONTARIO  
Frances Ilari, Road User Safety Division, Tracey Ma, Road User Safety Division and Patrick Byrne, Road User Safety Division, Ministry of Transportation
- TWENTY YEARS OF PEDESTRIAN SAFETY IN ONTARIO  
Chris Janusz, Road User Safety Division, Ministry of Transportation

10:00  30 Minute Refreshment Break in the Exhibition

10:30  WILDLIFE CONSERVATION
- PROVINCIAL INITIATIVES  
Environmental Policy Office Staff, Policy and Planning Division, Ministry of Transportation
- PERMANENT FENCING FOR MITIGATION OF SAR MORTALITY  
Gillian Dagg-Foster, Provincial Highways Management Division, Ministry of Transportation

STRUCTURES (B) (SES)  
Maple East/West Room, Mezzanine Level

Chair: John Alexander, Bridge Structural Specialist, Alberta Transportation
NON-DESTRUCTIVE BRIDGE DECK TESTING WITH INFRARED THERMOGRAPHY AND GROUND PENETRATING RADAR  
*Tarek Omar*, PhD Candidate, University of Western Ontario; *Moncef Nehdi*

APPLICATION OF SOIL REINFORCED STRUCTURES AS URBAN TRANSPORTATION SYSTEM SOLUTIONS  
*Celenia Vivas*, Project Coordinator, Reinforced Earth Company; *Daniel Calatrava*

INNOVATIVE AND SUSTAINABLE APPLICATIONS OF GFRP REINFORCING IN CONCRETE STRUCTURES  
*Gene Latour*, President, V-ROD Canada

30 Minute Refreshment Break in the Exhibition

FIFTEEN-YEAR EXPOSURE TESTING OF ADVANCED COMPOSITE MATERIALS FOR STRUCTURAL STRENGTHENING  
*Scott Arnold*, Director of Engineering Services, Fyfe Co LLC

LESSONS LEARNED: THE NEXT GENERATION OF BRIDGE INSPECTION AND MANAGEMENT SYSTEMS  
*Benjamin Witter*, Account Manager, Bentley Systems, Inc.

DELAYED ETTRINGITE FORMATION (DEF) IN PRECAST CONCRETE - FEAR, FACTS AND RISKS  
*Bozena Czarnecki*, Principal Specialist, Tetra Tech EBA Inc.

IMPLEMENTING UTILITY COORDINATION (SES)  
Birchwood Ballroom, Mezzanine Level

**Co-Chairs:** *Lawrence Arcand*, President, T2 Utility Engineers Inc. and *Steve Murphy*, Program Manager Corridor Control, Roads, Transportation Services, The Regional Municipality of York

Organized by TAC’s Public Utilities Management Subcommittee of the Maintenance and Construction Standing Committee

UTILITY COORDINATION: NORTH WEST PATH PEDESTRIAN TUNNEL  
*Andy Hares*, Associate, Hatch; *Leila Jafari*

REGINA BYPASS – UTILITY COORDINATION LESSONS LEARNED  
*Dan Dmytryshyn*, Project Manager, CIMA Canada Inc.

UTILITY COORDINATION GUIDELINES IN STRATHCONA COUNTY’S INDUSTRIAL HEARTLAND AREA  
*Bosco Tong*, Senior Transportation Engineer, Strathcona County, AB

UTILITY COORDINATION CURRENT USE AND ADOPTION  
*Ophir Wainer*, Business Development Manager, T2 Utility Engineers; *Jeff Harrott*
ROAD SAFETY MANAGEMENT IN TEMPORARY SITUATIONS (SES)
Cedar Room, Mezzanine Level

Chair: Geni Bahar, President, NAVIGATS INC.

Organized by TAC’s Road Safety Standing Committee

10:30 DEVELOPMENT OF AN UNPLANNED ROAD CLOSURE PROTOCOL FOR NEW BRUNSWICK PROVINCIAL HIGHWAY SYSTEM
Karen Robichaud, Manager, Transportation Engineering, Opus International Consultants and Jay Cunningham, Assistant Director, New Brunswick Department of Transportation and Infrastructure; Shawn Landers

11:00 INTELLIGENT ALERTING: COMMUNICATING CRITICAL ROAD CONDITIONS DIRECTLY TO ROAD USERS IN REAL-TIME
Shawn Allan, Manager, Met-Ocean Services, Amec Foster Wheeler

11:30 NATIONAL GUIDELINES FOR WORK SAFETY IN CANADA
Keenan Patmore, Transportation Engineer, MORR Transportation Consulting Ltd.

WEDNESDAY, SEPTEMBER 28 – 13:45-15:15

2016 TAC EDUCATIONAL ACHIEVEMENT AWARD NOMINATIONS (SES)
Chestnut East Room, Mezzanine Level

Organized by TAC’s Education and Human Resources Development Council

Chair: David Hein, Principal Engineer, Vice-President, Transportation, Applied Research Associates Inc.

TAC members that have made an exemplary contribution to education and/or training relating to an in-house or external program are eligible to receive the Association’s annual Educational Achievement Award. The award was conferred at the Monday Lunch. Nominees have been invited to give presentations on their respective projects at this session.

13:45 FREIGHT-SUPPORTED GUIDELINES
Ewa Downarowicz, Team Leader, Transportation Planning, Ministry of Transportation of Ontario; Robin Kortright

14:05 THE CONE ZONE EXPERIENCE
Bob Nielson, Corporate Compliance Manager, Mainroad Lower Mainland Contracting LP; Sarina Hanschke

14:25 TRANSPORTATION-PLANNING.COM
Roy Symons, Manager, Transportation Planning, ISL Engineering and Land Services Ltd.

14:45 MUNICIPAL ASSET MANAGEMENT CERTIFICATION PROGRAM
Heather Crewe, Manager of Professional Development and Training, Ontario Good Roads Association
**2016 TAC ENVIRONMENTAL ACHIEVEMENT AWARD NOMINATIONS (SES)**

Pine Room, Mezzanine Level

*Organized by TAC’s Environment Council*

TAC members that have made an exemplary contribution to the protection and enhancement of the environment or that have taken a particularly innovative approach to solving an environmental problem are eligible to receive the Association’s annual Environmental Achievement Award. The award was conferred at the Monday Lunch. Nominees have been invited to give presentations on their respective projects at this session.

13:45 ALBERTA WILDLIFE WATCH – APPLICATION AND PROGRAM DEVELOPMENT  
Amy McLenaghan, Biologist, Tetra Tech EBA Inc.

14:15 THE RT. HON. HERB GRAY PARKWAY: A PARKWAY IN A PRAIRIE  
Joel Foster, Head, Environmental Section, Windsor Border Initiative Implementation Group, Ministry of Transportation of Ontario

**2016 TAC ROAD SAFETY ENGINEERING AWARD NOMINATIONS (SES)**

Cedar Room, Mezzanine Level

*Organized by TAC’s Road Safety Standing Committee*

TAC members that have made an exceptional contribution to exemplary projects or initiatives in road safety engineering are eligible to receive the Association’s annual Road Safety Engineering Award. The awards were conferred at Monday’s Lunch. Nominees have been invited to give presentations on their respective projects at this session.

13:45 SAFE JOURNEYS TO SCHOOL INITIATIVE  
Brian Brost, Manager of Utilities, City of St. Albert; Raheem Dilger

14:05 CITY OF TORONTO CURB RADII DESIGN GUIDELINES  
Justin Bak, Project Lead, City of Toronto; Sheyda Saneinejad

14:25 PORT MANN HIGHWAY 1 DETOURS PROJECT  
Dave Dulay, Division Manager, Design-Build/P3, McElhanney Consulting Services Ltd.; José Pinto

14:45 VANCOUVER CYCLING SAFETY STUDY AND ACTION PLAN  
Brian Patterson, Principal and Senior Transportation Planner, Urban Systems

**2016 TAC SUSTAINABLE URBAN TRANSPORTATION AWARD NOMINATIONS (SES)**

Chestnut West Room, Mezzanine Level

*Organized by TAC’s Sustainable Transportation Standing Committee*
TAC members that have made an exemplary contribution to the development and enhancement of sustainable urban transportation are eligible to receive the Association’s annual Sustainable Urban Transportation Award. The award was conferred at the Monday Lunch. Nominees have been invited to give presentations on their respective projects at this session.

13:45  TRANSLINK’S BIKE PARKADE PROGRAM
Rachel Jamieson, Senior Transportation Engineer, TransLink; Helen Cook; Debra Rolfe

14:05  ACTIVE TRANSPORTATION IN SCHOOLS: BICYCLE PARKING PILOT PROJECT
Wayne Chan, Manager, Sustainable Transportation, Region of Peel

14:25  HAMILTON’S BIKE SHARE PROGRAM – BIG DATA AND MODAL SHIFT!
Peter Topalovic, Project Manager, Sustainable Mobility Programs, City of Hamilton

14:45  TRANSFORMING THE WAY TORONTO MOVES
Rajesh Khetarpal, Director, Stakeholder Relations, Metrolinx

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**WEDNESDAY, SEPTEMBER 28 – 13:45-17:15**

**HOW WILL “BIG DATA” HELP US TO MAKE TRANSPORTATION MORE EFFICIENT (SES)**
Birchwood Ballroom, Mezzanine Level

*Organized by TAC’s Traffic Operations and Management Standing Committee*

Chair: Cathy Robertson

13:45  DEVELOPMENT OF A MULTI-LEVEL ROADWAY SEGMENTATION
Goran Nikolic, Head, Central Region Traffic Planning, Ministry of Transportation of Ontario; Reza Omrani; Pedram Izadpanah; Ali Hadayeghi

14:15  ASSESSING MOBILITY: FROM PLANNING TO RESULTS (ENQUÊTES DE MOBILITÉ: DE LA PLANIFICATION À L’OBTENTION DE DONNÉES FIABLES)
Pierre-Luc Grenon, Deputy Director, Transportation Planning and Traffic, WSP Canada Inc.
* Presentation in French

14:45  MAKING BIG TRANSPORTATION DATA USEFUL: INSIGHTS FROM THE CITY OF TORONTO
Jesse Coleman, Big Data Innovation Team Lead, City of Toronto, Transportation Services

15:15  *30 Minute Refreshment Break in the Exhibition*

15:45  BIG DATA ANALYSIS TO MEASURE DELAYS OF LONG-HAUL TRUCK TRIPS
Kevin Gingerich, Research Associate, Cross Border Institute/University of Windsor; Hanna Maoh; William Anderson
16:15 EVALUATING AND IMPROVING BONVENTURE CORRIDOR’S EFFICIENCY (ÉVALUER ET AMÉLIORER LA PERFORMANCE DU CORRIDOR BONAVENTURE)
François Belisle, Project Leader, WSP and François Thibodeau, ingénieur, Ville de Montréal
* Presentation in English and French

16:45 MODELING CAR SHARING AND ITS IMPACT ON AUTO OWNERSHIP: EVIDENCE FROM VANCOUVER AND SEATTLE
Eric Petersen, Senior Advisor, Metrolinx; Yunfei Zhang; Ali Darwiche

MANAGING CURBSIDE ACTIVITY UNDER CONGESTED CONDITIONS – ISSUES AND OPPORTUNITIES (PD)
Civic Ballroom South, 2nd floor

Chair: Paul Sabo, Senior Engineer, Operational Planning and Policy, Transportation Services, City of Toronto

Organized by TAC’s Transportation Planning and Research Standing Committee

Panelists
- IMPACTS OF ILLEGAL PARKING ON CBD CONGESTION
  Matthew Roorda, Professor of Civil Engineering, Department of Civil Engineering, University of Toronto
- THE IMPACT OF CRUISING FOR CURBSIDE PARKING ON TRAFFIC FLOW
  Ian Maher, Vice-President of Strategic Planning & I.T., Toronto Parking Authority
- CURBSIDE MANAGEMENT – HOW FACTS CAN RUIN A GOOD STORY
  Alice Kelly, Manager, Policy and Governmental Affairs, Office of the Director, Washington District Department of Transportation
- A CURBSIDE MANAGEMENT STRATEGY APPROACH TO END ALL APPROACHES?
  Paul Sabo, Senior Engineer, Operational Planning and Policy, City of Toronto
- CURBSIDE MANAGEMENT TOOLS FOR CONGESTED CITIES
  Bern Grush, VP Innovation, Co-Founder, PayBySky

Discussion and Question-and-Answer Period
Panel includes a 30 minute refreshment break at 15:15 in the exhibition

AASHTOWARE PAVEMENT ME DESIGN – CANADIAN IMPLEMENTATION EFFORTS (PD)
City Hall Room, 2nd floor

Chair: Marta Juhasz, Director, Surfacing Engineering, Alberta Transportation

Organized by TAC’s Pavements Standing Committee and Soils and Materials Standing Committee

Panelists
- AASHTOWARE PAVEMENT ME DESIGN TASK FORCE UPDATE
  Félix Doucet, responsable du secteur Sols et granulats, Ministère des Transports, de la Mobilité durable et de l’Électrification des transports du Québec
- AASHTOWARE PAVEMENT ME DESIGN CANADIAN USER GROUP TRIALS
  Mark Popik, Associate, Senior Pavement Engineer, Thurber Engineering Ltd.
• AASHTOWARE PAVEMENT ME DESIGN CANADIAN USER GUIDE
  
  Susanne Chan, Pavement Design Engineer, Ministry of Transportation of Ontario

• AASHTOWARE PAVEMENT ME DESIGN ONTARIO CALIBRATION EFFORTS
  
  Warren Lee, Pavement Design Engineer, Ministry of Transportation of Ontario

• AASHTOWARE PAVEMENT ME DESIGN MANITOBA CALIBRATION EFFORTS
  
  M. Alauddin Ahammed, Pavement Design Engineer, Manitoba Infrastructure

• AASHTOWARE PAVEMENT ME DESIGN CANADIAN CASE STUDIES
  
  Hugh Donovan, Integrated Infrastructure Services, Construction Services Engineer, City of Edmonton

Discussion and Question-and-Answer Period
Panel includes a 30 minute refreshment break at 15:15 in the exhibition

TDM AFTER 20 YEARS: WHAT’S WORKING, AND WHAT’S NEXT? (PD)
Civic Ballroom North, 2nd floor

Chair: Geoff Noxon, President, Noxon Associates Limited

Organized by TAC’s Sustainable Transportation Standing Committee

Panelists

• TDM HAS BEEN ON A SLOW BOIL FOR 20 YEARS – ARE WE READY TO TURN UP THE HEAT?
  Lorenzo Mele, Advisor, Healthy by Design, Region of Peel, Public Health

• WORKPLACE TDM IN 2016
  Nadine Navarro, Manager of Transportation Demand Management (Smart Commute), Metrolinx

• INFLUENCING SUSTAINABLE MOBILITY OPTIONS THROUGH DEVELOPMENT
  Brian Hollingworth, Director, IBI Group

• INDIVIDUAL MARKETING FOR SUSTAINABLE TRAVEL
  Roxane MacInnis, Senior Project Planner, Transportation Planning, MMM Group a WSP Company

• EVOLVING DEMAND MANAGEMENT: A NEW APPROACH FOR A NEW ERA IN MOBILITY
  James LaPointe, Senior Planner, Strategic Planning and Policy Division, TransLink

Discussion and Question-and-Answer Period
Panel includes a 30 minute refreshment break at 15:15 in the exhibition

POSTER SESSIONS

Poster sessions will be held in the Lower Concourse Foyer, from Sunday, September 25 to Wednesday, September 28. Authors will be onsite to answer questions on Monday, September 26 from 11:00 to 12:00.

CROSS ASSET ANALYSIS AND OPTIMIZATION – SOLUTIONS FOR INFORMED DECISION MAKING (PS)
Organized by TAC’s Asset Management Task Force

SETTING CUSTOMER-FOCUSED TRANSPORTATION PERFORMANCE MEASURES AND CONDITION INDICATORS
Anna Robak, Technical Principal Global Asset Management, Opus International Consultants Limited; Shawn Landers; Wayne Hatcher
EFFICIENT TRANSPORTATION – MANAGING THE MAINTENANCE DEMAND (PS)
Organized by TAC’s Maintenance and Construction Standing Committee

INTEGRATING ASSET VALUATION IN TRANSPORTATION ASSET MANAGEMENT
Zaid Alyami, PhD Candidate, University of Waterloo; Susan L. Tighe

WEIBULL DISTRIBUTION BASED METHOD FOR DETERIORATION MODELING OF CONCRETE BRIDGES
Mohammed Alsharqawi, PhD Student, Concordia University; Tarek Zayed; Saleh Abu Dabous

INNOVATIONS IN PAVEMENT MANAGEMENT, ENGINEERING AND TECHNOLOGIES - DESIGN APPLICATIONS (PS)
Organized by TAC’s Pavements Standing Committee

AN OVERVIEW OF BEST PRACTICES FOR THE DESIGN AND CONSTRUCTION OF SIDEWALKS AND TRAILS
Aleks Kivi, Pavement Engineer, Applied Research Associates, Inc.; David Hein

ASSESSMENT OF FRICTION NUMBER FOR ASPHALT PAVEMENTS IN ONTARIO
Susanne Chan, Pavement Design Engineer, Ministry of Transportation of Ontario; Joshua Li; Sam Cui; Betty Bennett

CONSTRUCTION AND PRELIMINARY ANALYSIS OF THE FHWA LTPP WARM MIX ASPHALT EXPERIMENT IN MANITOBA
Giannin Viecili, Engineer-in-Training, Stantec; Carlos Leal

DEVELOPING NEW PERFORMANCE INDEX FOR ASSESSING OVERALL PAVEMENT CONDITION BY INCORPORATING OF MECHANISTIC-EMPIRICAL APPROACH FOR ONTARIO HIGHWAYS
Gulfam Jannat, PhD Candidate, University of Waterloo; Susan L. Tighe

DEVELOPMENT OF A MORTAR ABRASION TEST FOR FINE AGGREGATES AND WEAR RESISTANCE OF CONCRETE PAVEMENTS
Shirin Ghatreh Samani, Engineering in Training, Ministry of Transportation; Stephen Senior; Carole Anne MacDonald

MTO CASE STUDY: PREMATURE JOINT DETERIORATION IN CONCRETE PAVEMENTS
Hannah Schell, Head, Concrete Section, Ministry of Transportation of Ontario; Melissa Titherington

NEXT GENERATION REGIONAL CORRIDOR MANAGEMENT (PS)
Organized by TAC’s Traffic Operations and Management Standing Committee

A SYSTEMATIC APPROACH TO THE PLANNING OF A REGION-WIDE RWIS NETWORK
Tae J. Kwon, Postdoctoral Fellow, University of Waterloo; Liping Fu; Max Perchanok

SAFELY MANAGING ROAD USERS (PS)
Organized by TAC’s Road Safety Standing Committee

EXPLORATIVE MODEL OF THE IMPACT OF LAND USE AND DEMOGRAPHY OF REGINA CRASH SEVERITY
Seun Oluwajana, Research Assistant, York University; Peter Park