

TRANSPORTATION ASSOCIATION OF CANADA

ADVANCE PROGRAM
FOR
2010 ANNUAL CONFERENCE AND EXHIBITION
September 26-29

World Trade and Convention Centre,
Marriott Halifax Harbourfront Hotel and Prince George Hotel
Halifax, Nova Scotia

Adjusting to New Realities

Co-hosted by the Nova Scotia Department of Transportation and Infrastructure Renewal
and Halifax Regional Municipality

- Notes**
- This program is incomplete and subject to change.
 - The following legend has been developed to allow delegates to quickly identify sessions, panel discussions and workshops of interest to them. It is intended to be used as a general guide as only key subject areas reflecting the overall content of an event are flagged.

THEME	Adjusting to New Realities	TRAFFIC	Road Traffic Operations & Management
PLANNING	Planning	SAFETY	Road Safety
DESIGN	Geometric Design	R&D	Research & Development
ENV	Environment	SUST DEV	Sustainable Development
SOILS/MAT	Soils & Materials	ITS	Intelligent Transportation Systems
MTN/CONST	Maintenance & Construction	INFO MGT	Information Management
PAVE	Pavements	MUNICIPAL	Municipalities/Urban Areas (incl. transit)
STRUCTURE	Structures	EDUC/HR	Education & Human Resources

THURSDAY, SEPTEMBER 23

MEETINGS 09:00

Environmental Best Practices for Highway Construction, Operations and Maintenance Project Steering Committee (closed)
P3s for Road Construction Project Steering Committee (closed)

MEETINGS 14:00

Performance Measures for Road Networks Project Steering Committee (closed)
Transit Priority Measure Guidelines Project Steering Committee (closed)

MEETING 17:00

Green Guide for Roads Project Steering Committee (closed)

MEETING 19:00

Salt Management Guide Project Steering Committee (closed)

FRIDAY, SEPTEMBER 24

MEETINGS 08:00

Environmental Advisory & Legislation Standing Committee
Mechanistic-empirical Pavement Design Guide (MEPDG) User Group (closed)

MEETING 09:00

Asset Management Task Force
Construction Subcommittee
Geometric Design Guide Update Scoping Study Project Steering Committee (closed)
Guidelines for Posted On and Off Ramp Speed Limit Signing Project Steering Committee (closed)

MEETINGS 10:00

Environmental Issues Management Standing Committee
Mechanistic-empirical Pavement Design Guide Calibration Project Steering Committee (closed)

MEETINGS 13:00

Geometric Design Guide Update Scoping Study Project Steering Committee (closed)
Joint Roundabouts Subcommittee
Pavement Asset Design & Management Guide Project Steering Committee (closed)
Pedestrian Crossing Control Manual Update Project Steering Committee (closed)
Winter Road Construction Project Steering Committee (closed)

MEETING 16:00

Blinking LED Borders for Signs Project Steering Committee (closed)

MEETING 18:00

Traffic Operations & Management Standing Committee (TOMSC) Executive (closed)

MEETINGS 19:00

Effective Strategies for Influencing Travel Behaviour Project Steering Committee (closed)
Signs and Markings for Multilane Roundabouts Project Steering Committee (closed)
Work Zone Safety Manual Subcommittee

SATURDAY, SEPTEMBER 25

MEETINGS 07:00

Canadian Road Safety Engineering Handbook Subcommittee
Driver Comprehension Testing Project Steering Committee (closed)

Winter Road Conditions Terminology Project Steering Committee (closed)

MEETING 08:00

Knowledge Management Primer Project Steering Committee (closed)

MEETINGS 09:00

Environment Council
Public Utilities Management Subcommittee
Road Safety Standing Committee
Sustainable Transportation Standing Committee

MEETING TO BE HELD IN CONJUNCTION WITH TAC CONFERENCE 09:00

Canadian National Committee of the World Road Association (CNC-PIARC/AIPCR) (closed)

MEETING 10:00

Education & Human Resources Development Council

MEETINGS 13:00

Education & Human Resources Development Council
Environment Council
Road Safety Standing Committee
Traffic Operations & Management Standing Committee (TOMSC)
Transportation Planning & Research Standing Committee
Summer & Winter Maintenance Subcommittee

MEETING TO BE HELD IN CONJUNCTION WITH TAC CONFERENCE 13:00

Climate Change & Northern Infrastructure Subcommittee (closed)

MEETING TO BE HELD IN CONJUNCTION WITH TAC CONFERENCE 14:00

Canadian National Committee of the World Road Association (CNC-PIARC/AIPCR) (closed)

MEETING 16:00

Geometric Design Revisions & Additions Subcommittee

DELEGATE & COMPANION KIT PICK-UP 16:30-18:00

Delegate and companion kit / registration receipt pick-up only – all other services, including on-site registration, workshop choice confirmation, tour tickets and financial transactions, available beginning on Sunday only.

MEETINGS 18:00

Collision-prone Location Screening Synthesis Project Steering Committee (closed)
Review of Sign Sheeting Requirements Project Steering Committee (closed)
Transportation Planning Studies Workshop Materials Project Steering Committee (closed)

MEETING 19:00

Transportation Finance Standing Committee

SUNDAY, SEPTEMBER 26

MEETING TO BE HELD IN CONJUNCTION WITH TAC CONFERENCE 07:00

TAC Foundation Board of Directors (closed)

INFORMATION SESSION 07:30

Standing Committee Executives (closed)

REGISTRATION 08:00-18:30

MEETINGS 09:00

Chief Engineers' Council
Urban Transportation Council
Geometric Design Standing Committee
Maintenance & Construction Standing Committee
Soils & Materials Standing Committee
Structures Standing Committee
Traffic Operations & Management Standing Committee

TOUR A (Departures at 10:00, 11:00, 12:00, 13:00, 14:00 and 15:00)

Halifax City Bus Tour

Delegates and companions are invited to take a one-and-a-half-hour guided bus tour of Halifax to familiarize themselves with their surroundings for the next few days and to view some of the city's attractions. Your itinerary will include the site of the Halifax Explosion, Canada's oldest legislative building and beautiful Point Pleasant Park. There will also be stops at the Citadel National Historic Site, which overlooks the city and its harbour, and at the Halifax Public Gardens, one of the finest surviving examples of Victorian gardens in North America.

(This tour is covered by the conference registration fees. *Preregistration for this limited-seating tour is recommended (see conference registration form).* Any remaining tour tickets will be available in the conference registration area on a first-come, first-served basis.)

TOUR B (Offered throughout conference)

Multi-modal Transportation Facilities Self-guided Tour

Visit downtown Halifax and its outlying areas. Points of interest on this self-directed tour of multi-modal transportation facilities include multi-use trails, public transit priority measures, a major transit terminal under construction and the future site of a transit village. Among the scenic highlights is a walk on Macdonald Bridge which spans Halifax harbour. With the help of a guide book, you will travel on foot, by ferry or by conventional or rapid transit bus. You will also be able to rent a bicycle if you wish and use it throughout your tour as the transit vehicles will accommodate bikes. The tour, which is offered throughout the conference, can be tailored to last from a half hour to three hours or longer.

(This tour is covered by the conference registration fees. There are no restrictions on the number of participants.)

MEETINGS 13:00

Chief Engineers' Council
Urban Transportation Council
Geometric Design Standing Committee
Maintenance & Construction Standing Committee
Pavements Standing Committee
Structures Standing Committee
Traffic Operations & Management Standing Committee

TAC FAMILIARIZATION AND CONFERENCE ORIENTATION SESSION 13:00

This will be an opportunity for new Association members and first-time delegates to obtain valuable information and answers to any questions they may have.

EXHIBITION 14:30-20:00

WELCOMING RECEPTION 17:30-19:30

This reception will be held in the exhibition area to allow guests to get an initial look at some of the latest developments in the transportation sector.

MONDAY, SEPTEMBER 27 (MORNING)

MEETING 07:00

Climate Change Task Force

SPEAKERS' BREAKFAST 07:30

(By invitation only)

REGISTRATION 07:30-16:30

EXHIBITION 08:00-09:30

EXHIBITOR PRESENTATIONS 08:10-08:30

Select exhibitors will make brief presentations on their products and services near the exhibition area.

OPENING PLENARY SESSION: ADJUSTING TO NEW REALITIES 08:45



Chair: *Robert Smart*, Deputy Minister, Newfoundland and Labrador Department of Transportation and Works, and President of TAC

Welcome to Nova Scotia: *Hon. Bill Estabrooks*, Minister of Transportation and Infrastructure Renewal of Nova Scotia and 2010 TAC Conference Chair

Welcome to Halifax: His Worship *Peter Kelly*, Mayor, Halifax Regional Municipality

Presentations

STANDING AT THE GATEWAY TO THE FUTURE – ENGINEERING IN A GOOGLE-BASED WORLD – *Hon. Bill Estabrooks*, Minister of Transportation and Infrastructure Renewal of Nova Scotia, Halifax

ADJUSTING TO NEW REALITIES THROUGH INNOVATIVE POLICIES – *Louis Ranger*, Consultant, Gatineau, QC

BETTER, SAFER, QUICKER, CHEAPER – *Robert E. Skinner, Jr.*, Executive Director, Transportation Research Board, Washington, DC

Fourth speaker to be announced

EXHIBITION 11:00-16:00

EXHIBITOR PRESENTATIONS 11:10-12:00

Select exhibitors will make brief presentations on their products and services near the exhibition area.

MONDAY, SEPTEMBER 27 (AFTERNOON)

AWARDS LUNCHEON 12:15

Chair: *Robert Smart*, Deputy Minister, Newfoundland and Labrador Department of Transportation and Works, and President of TAC

Most of TAC's 2010 honours and awards will be presented during this luncheon, which will be a special opportunity to recognize Association supporters who have contributed so much of their time and energy to ensuring this organization's success. As well, the activities of the TAC Foundation will be highlighted.

MEETING 14:15

Chief Engineers' Council

PANEL DISCUSSIONS 14:15

ROLE OF POLICY IN DEALING WITH NEW REALITIES

THEME

PLANNING

SUST DEV

MUNICIPAL

Chair: To be announced

This panel discussion will explore how policy is being used by the participants' agencies to deal with the new socio-economic realities facing governments at all levels, including ways of dealing with the post-stimulus era.

Panelists

Bruce McCuaig, Deputy Minister, Ministry of Transportation of Ontario, Toronto

Alan Humphries, Assistant Deputy Minister, Policy and Corporate Services, Alberta Transportation, Edmonton

John Spacek, Assistant Deputy Minister, Policy and Motor Carrier Divisions, Manitoba Infrastructure and Transportation, Winnipeg

Mike Labrecque, Deputy Chief Administrative Officer, Corporate Services, Halifax Regional Municipality

Mike Johnson, Deputy Minister, Yukon Highways and Public Works, Whitehorse

Discussion and Question-and-answer Period

PIARC – DEALING WITH NEW REALITIES THROUGH GOOD GOVERNANCE

THEME

This panel discussion is being organized by the Canadian National Committee of the World Road Association (CNC-PIARC/AIPCR). It will be preceded by a short message from the President of the World Road Association, *Anne-Marie Leclerc*, Assistant Deputy Minister, Infrastructure and Technologies, Ministry of Transport of Quebec, Quebec City, and President of PIARC.

The panelists will address the topic of good governance of road administrations, a current focus of one of PIARC's technical committees. They will deal with a wide range of issues, including best practices for good governance, improved services to customers and human resources for the future.

Panelists

Bryce Conrad, Assistant Deputy Minister, Program Operations Branch, Infrastructure Canada, Ottawa

Ray Mantha, Executive Director, Asset Management, Ministry of Transportation of Ontario, St. Catharines

Other panelists to be announced

Discussion and Question-and-answer Period

ADJUSTING TO NEW REALITIES – INTEGRATION OF SUSTAINABLE TRANSPORTATION AND URBAN DESIGN

THEME

MUNICIPAL

SUST DEV

PLANNING

Chair: *Ted Gill*, Senior Project Manager, McCormick Rankin Corporation, Mississauga, ON

Panelists

Chris Lowe, President, Chris Lowe Group, Bedford, NS

Christina MacLeod, Policy and Government Relations Coordinator, Heart and Stroke Foundation of Nova Scotia, Halifax

David McCusker, Manager of Traffic and Transportation Services, Halifax Regional Municipality

Brian Mills, Director, Strategic Planning and Policy, TransLink (South Coast British Columbia Transportation Authority), Burnaby

Graham Vincent, Director of Transportation Planning, Regional Municipality of Waterloo, ON

Leslie Woo, Vice-president of Policy and Planning, Metrolinx, Toronto

Discussion and Question-and-answer Period

SESSIONS 14:15

2009 TAC SUSTAINABLE URBAN TRANSPORTATION AWARD NOMINATIONS

MUNICIPAL

SUST DEV

PLANNING

TRAFFIC

THEME

Chair: *Ana Maria Leyton*, Highway Programs, Transport Canada, Ottawa

TAC members that have made an exemplary contribution to sustainable urban transportation are eligible to receive the Association's annual award recognizing their efforts in this area.

A selection committee has reviewed the nominations received for the 2009 award and recommended a winner to TAC's Board of Directors. The award will be conferred at the delegate luncheon scheduled for Monday, September 27. As well, nominees have been invited to give presentations on their respective projects at this session.

EDMONTON TRANSPORTATION PLANNING BRANCH 2009 ACHIEVEMENTS (CITY OF EDMONTON) – *Rhonda Toohey*, Director, Policy Implementation and Evaluation, City of Edmonton

MONTREAL, AU RYTHME DE LA MOBILITÉ DURABLE AVEC LE DÉPLOIEMENT DU BIXI ET L'IMPLANTATION DE 50 KILOMÈTRES DE NOUVELLES VOIES CYCLABLES EN 2009 (VILLE DE MONTRÉAL) (MONTREAL AT THE FOREFRONT OF SUSTAINABLE MOBILITY WITH THE DEPLOYMENT OF THE BIXI PROGRAM AND THE DEVELOPMENT OF 50 KM OF NEW BICYCLE LANES IN 2009 (CITY OF MONTREAL)) – *Serge Lefebvre*, Division Head, Active Transportation, City of Montreal

DÉMARCHE STRATÉGIQUE INTÉGRÉE DE PLANIFICATION ET D'EXPLOITATION DU TRANSPORT COLLECTIF DANS LE DOMAINE DES STI AU QUÉBEC (ROCHE) (INTEGRATED STRATEGIC ITS PLANNING AND OPERATIONS PLATFORM FOR PUBLIC TRANSIT NETWORKS IN QUEBEC (ROCHE)) – *Philippe Morais*, Director, Systems, Transportation, Roche

DUFFERIN STREET FROM STEELES AVENUE TO LANGSTAFF ROAD: DUFFERIN STREET – ANOTHER STEP TOWARDS SUSTAINABILITY (YORK REGION) – *Salim Alibhai*, Manager, Engineering, Roads Branch, Regional Municipality of York, ON

UNE NOUVELLE ÈRE POUR LE TRAIN DE BANLIEUE : 160 VOITURES NEUVES ARRIVENT! (AGENCE MÉTROPOLITAINE DE TRANSPORT) (THE COMMUTER TRAIN NETWORK REACHES NEW HEIGHTS WITH THE ADDITION OF 160 NEW RAILCARS! (METROPOLITAIN TRANSPORTATION AGENCY)) – *Daniel Bergeron*, Director, Mobility and Urban Transportation Information, Metropolitan Transportation Agency, Montreal

TRANSPORTATION MASTER PLAN UPDATE: MOVING TOWARDS SUSTAINABLE TRANSPORTATION (YORK REGION) – *Loy Cheah*, Director, Transportation Planning, Regional Municipality of York, ON

BRIDGES – ADJUSTING TO NEW REALITIES (A)

STRUCTURE

MTN/CONST

SOILS/MAT

THEME

Chair: *Robert van Ginkel*, Principal and Senior Project Manager, Wardrop Engineering Inc., Winnipeg

LOAD TESTING AND RATINGS OF SALVAGED PRECAST PRESTRESSED CONCRETE CHANNEL BRIDGE GIRDERS – *Mike Lau*, Associate, Dillon Consulting Limited, Winnipeg; *Asnee Pochanart*, AECOM Canada Limited; *Ruth Eden*, Manitoba Infrastructure and Transportation

ACCELERATED BRIDGE CONSTRUCTION - ON THE FAST TRACK TO SUCCESS – *Rob Burak*, President, Canadian Precast/Prestressed Concrete Institute, Ottawa; *Rita Seraderian*, Precast/Prestressed Concrete Institute, Northeast Region

USING STRUCTURAL MONITORING IN THE EVALUATION OF THE A. MURRAY MACKAY BRIDGE – *John Newhook*, Professor, Centre for Innovation in Infrastructure, and *Joshua Levy*, M.Sc. Candidate, Dalhousie University, Halifax; *Peter Buckland*, Principal, Buckland & Taylor Ltd.; *Jon Eppell*, Bridge Engineer, Halifax Harbour Bridges

INNOVATIVE FIELD CAST UHPC JOINTS FOR PRECAST BRIDGE SYSTEMS – 3-SPAN LIVE LOAD CONTINUOUS – *Vic Perry*, Vice-president and General Manager, Ductal, Lafarge Canada Inc., Calgary; *Dick Dykstra*, *Philip Murray*, *Biljana Rajlic*

INNOVATIVE STEEL BRIDGE ERECTION TECHNIQUES – *Prabhjeet Raj Singh*, Vice-president, and *Matthias Schueller*, Principal, Infinity Engineering Group Ltd., North Vancouver; *Matthew Bowser*, M.Sc. Candidate, University of Waterloo, Waterloo, ON

MANITOBA RED RIVER FLOODWAY EXPANSION PROJECT - RAILWAY BRIDGE DESIGN CHALLENGES AND OUTCOMES – *Jim Lukashenko*, Manager, Bridges and Structures, MMM Group Limited, Winnipeg; *Michael Hatch*, MMM Group Limited

ACCOMMODATING PEDESTRIANS IN ROAD DESIGN AND TRAFFIC OPERATIONS

SAFETY

DESIGN

TRAFFIC

MUNICIPAL

Chair: *Geni Bahar*, President, NAVIGATS INC., North York, ON

IMPROVING PEDESTRIAN PERFORMANCE AND DRIVER RESPONSE AT UNSIGNALIZED ROUNDABOUT CROSSWALKS – *Mark Lenters*, President, Ourston Roundabout Engineering Inc., Madison, WI; *Nancy Button*, Region of Waterloo, ON; *Tom Knostman*, Loveland, CO

HIERARCHICAL DESIGN STANDARDS FOR NEIGHBORHOOD WALKING ENVIRONMENTS – *Jody Rosenblatt-Naderi*, Ball State University and University of Guelph

CITY “FAT” STREET GETS MAKEOVER WITH FIRST ROAD DIET – *Christopher Hodgson*, Project Manager, City of Waterloo, ON

PEDESTRIAN WALKING SPEED FOR TRAFFIC ENGINEERING OPERATIONS – *Jeannette Montufar*, Associate Professor, Department of Civil Engineering, University of Manitoba, Winnipeg

CLIMATE CHANGE IMPLICATIONS FOR SHORELINE EROSION

ENV

SUST DEV

MTN/CONST

THEME

Chair: To be announced

INFRASTRUCTURE RISK ASSESSMENT OF THREE COASTAL ROADS IN NOVA SCOTIA – *Ian MacCallum*, Environmental Analyst, Nova Scotia Transportation and Infrastructure Renewal, Halifax

SEA RISE AND INFRASTRUCTURE VULNERABILITY - HALIFAX CASE STUDY – *Eric Rapaport*, Associate Professor, School of Planning, Dalhousie University, Halifax

STORM SURGES AND RISING SEA LEVELS - IMPLICATIONS FOR PEI'S COASTAL HIGHWAYS - A CASE STUDY FROM PANMURE ISLAND – *Michael H. Davies*, President, Coldwater Consulting Ltd., Ottawa

INNOVATIONS IN PAVEMENT DESIGN AND EVALUATION

PAVE

SOILS/MAT

MTN/CONST

R&D

Chair: *Sherry Sullivan*, Concrete Engineer, Canadian Ready Mixed Concrete Association, Mississauga, ON

DESIGN OF A CONTINUOUSLY REINFORCED CONCRETE PAVEMENT WITH HEAT TRANSFER FOR A BUS TERMINAL IN HAMILTON – *Ludomir Uzarowski*, Associate, Pavement and Materials Engineering, Golder Associates Ltd., Whitby, ON

EVALUATION OF ASPHALT CEMENT CHARACTERISTICS AND FIELD AND LAB PERFORMANCE OF HIGH RECYCLED ASPHALT PAVEMENT (RAP) WARM MIX ASPHALT USING HYPERTHERM™ Warm Mix Asphalt (WMA) TECHNOLOGY – *Ryan S. Clark*, Materials Performance Manager, Municipal Group of Companies, Bedford, NS; *Terry Hughes*, Pavement Engineer, New Brunswick Department of Transportation, Fredericton; *Jamie Weatherbee*, Group Leader, Geotech and Materials, Stantec Consulting Ltd., Fredericton, NB

EVALUATION OF CONCRETE PAVEMENT TEXTURING USING PHOTOTEXTURE – *Amin El Gendy*, Suez Canal University, Winnipeg

DESIGNING PAVEMENTS FOR INNOVATIVE PROJECTS TO MEET STRUCTURAL AND FUNCTIONAL REQUIREMENTS – *Leanne Whiteley-Lagace*, Pavement Engineer, Stantec Consulting Ltd., Hamilton, ON; *Khaled Galal*, Stantec Consulting Ltd.

EVALUATION OF THE EFFECTIVENESS OF DIFFERENT MIX TYPES TO REDUCE NOISE LEVEL AT THE TIRE/PAVEMENT INTERFACE – *Joseph Ponniah*, Senior Pavement Management Engineer, and *Becca Lane*, Head, Pavements and Foundations Section, Ministry of Transportation of Ontario, Downsview; *Sayed Tahib*, Bituminous Section, and *Chris Raymond*, Ministry of Transportation of Ontario

PAVEMENT ASSESSMENT AND DESIGN METHODOLOGIES USED FOR THE REHABILITATION OF URBAN PAVEMENTS IN THE CITY OF CALGARY, ALBERTA – *Art Johnston*, Principal, Transportation Practice, EBA Engineering Consultants Ltd., Calgary; *Nader Nabhani*, Pavement Engineer, Engineering Practice, EBA Engineering Consultants Ltd.; *Joe Chyc-Cies*, Materials and Research Engineer, City of Calgary

BEST PRACTICES IN URBAN TRANSPORTATION PLANNING (A)

MUNICIPAL

PLANNING

TRAFFIC

SUST DEV

R&D

Chair: *J. Allen Stewart*, Vice-principal, Academic, Royal Military College of Canada, Kingston, ON

APPLYING HIGH-FIDELITY TRAVEL DEMAND MODEL FOR IMPROVED NETWORK-WIDE TRAFFIC ESTIMATION: NEW BRUNSWICK CASE STUDY – *Riad Mustafa*, PhD Student, and *Ming Zhong*, Associate Professor, Department of Civil Engineering, University of New Brunswick, Fredericton

INCORPORATING VARIOUS TRAVEL SEGMENTS IN DEMAND MODELLING AND PLANNING – *Sundar Damodaran*, Senior Policy Advisor, Systems Analysis and Forecasting Office, Ministry of Transportation of Ontario, Toronto

REGIONAL STRATEGIC TRANSPORTATION PLAN IN THE REGIONAL MUNICIPALITY OF WOOD BUFFALO – *Sumon Khan*, Transportation Planning Engineer, and *Bryan Petzold*, Alberta Manager, Transportation, Associated Engineering Alberta Ltd., Edmonton

STREAMLINING OPPORTUNITIES FOR THE PERMITTING, ENFORCEMENT, AND REGULATION OF REGIONAL TRUCK REGULATIONS – *Helen Cook*, Program Manager, Road and Infrastructure Planning, TransLink (South Coast British Columbia Transportation Authority), Burnaby; *Phoebe Cheung*, and *Vivian Law*, SNC Lavalin

LA PORTE CONTINENTALE ET LE CORRIDOR DE COMMERCE ONTARIO-QUÉBEC (THE CONTINENTAL GATEWAY AND ONTARIO-QUÉBEC TRADE CORRIDOR) – *Évangéline Lévesque*, Department Head, Ministry of Transport of Quebec, Quebec City

MONDAY, SEPTEMBER 27 (EVENING)

DOWN EAST LOBSTER CEILIDH 18:15-22:00

Delegates and companions are invited to a Down East Lobster Ceilidh on Monday of the conference week! The setting will be the Cunard Centre, a Halifax waterfront cargo shed newly renovated into a spacious event facility.

Imagine yourself at an authentic Nova Scotian kitchen party or ceilidh where the atmosphere is “Bluenoser” to the core. Great company and hospitality, great food and great entertainment! Prepare to relax and have fun in the unique Maritime manner!

You can go outside on the “brow” to watch ships manoeuvre through the busy Port of Halifax. In September, guests are often privileged to view some of the world’s largest cruise liners which tie up next to the Cunard Centre.

Following a reception to whet your appetite, succulent Nova Scotia lobster with all the trimmings will be served (tasty barbecued chicken for landlubbers). No one will leave feeling hungry!

During and after supper, you will be entertained by the “Atlantic Canada Ceilidh” in a celebration of fun, laughter, song and good times. The tradition of Nova Scotia’s forebears continues today as this powerhouse of Maritime performers reaches out to its audience. From the striking of the first chord, both the cast and the audience will entertain each other in a good old fashioned “kitchen gathering”. Not to worry if you’re just visiting – by the end, you’ll feel right at home.

TUESDAY, SEPTEMBER 28 (MORNING)

SPEAKERS' BREAKFAST 07:30

(By invitation only)

EXHIBITOR PRESENTATIONS 08:00-08:50

Select exhibitors will make brief presentations on their products and services near the exhibition area.

EXHIBITION 08:00-12:00

REGISTRATION 08:00-17:30

MEETING 08:30

Board of Directors (closed)

MEETING TO BE HELD IN CONJUNCTION WITH TAC CONFERENCE 09:00

Policy and Planning Support Committee, Council of Deputy Ministers Responsible for Transportation and Highway Safety (closed)

PANEL DISCUSSION 09:00

ADAPTING TRANSPORTATION SAFETY TO CLIMATE CHANGE

SAFETY

ENV

SUST DEV

DESIGN

TRAFFIC

MTN/CONST

Chair: *Sébastien Labonté*, Project Leader, Travel Engineering, Transportation Division, CIMA+, Montreal

This panel discussion will seek to raise climate change awareness among road authorities. Panelists will consider what action can be taken to adapt practices in areas such as road design, safety, signage and pavement markings, and maintenance. They will also look at new tools available to provide information on storm models, freeze/thaw cycles, weather, etc. Finally, the panel will provide an opportunity for all agencies and stakeholders to jointly build a momentum leading to safer roadways adapted to new climate change challenges.

Panelists

Panelists to be announced

Discussion and Question-and-answer Period

SESSIONS 09:00

REALITIES OF EFFECTIVE ENVIRONMENTAL MANAGEMENT IN TODAY'S SOCIETY

ENV

MTN/CONST

SUST DEV

MUNICIPAL

THEME

Chair: *Ron Gerbrandt*, Executive Director, Engineering Standards, Saskatchewan Ministry of Highways and Infrastructure, Regina

LEWWAN DRIVE INTERCHANGE - APPLICATION OF NEW FEDERAL EXCLUSION LIST REGULATIONS – *Ronald Hall*, Environmental Assessment Officer / Surface Infrastructure Programs, Programs Group, Transport Canada, Ottawa; *Raeleen Walbaum*, Saskatchewan Ministry Highways and Infrastructure

SOUTHEAST STONEY TRAIL: A CANADIAN ENVIRONMENTAL ASSESSMENT ACT (CEAA) SCREENING ENVIRONMENTAL ASSESSMENT FOR A CANADA BUILDING FUND PROJECT – *Ian Campbell*, Environmental Scientist, AMEC Earth and Environmental, Calgary

CONCEPTION BAY SOUTH BYPASS ROAD – REALITY OF EFFECTIVE ENVIRONMENTAL MANAGEMENT IN TODAY'S SOCIETY – *Ken Hannaford*, Environmental Scientist, Newfoundland and Labrador Transportation and Works, St. John's

GEOMETRIC DESIGN – LESSONS LEARNED: CASE STUDIES IN INNOVATION

DESIGN

SUST DEV

TRAFFIC

R&D

Chair: *Bruce Biglow*, Associate, Dillon Consulting Limited, Winnipeg

A CASE STUDY IN INNOVATION - 26 AVENUE ROUNDABOUT – *Glen Furtado*, Transportation Practice Leader - Alberta, Urban Systems Ltd., Calgary; *Chris Ollenberger*, Calgary Municipal Land Corporation

PERFORMANCE-BASED DESIGN HEURISTICS FOR FREEWAY TERMINATIONS AT SIGNALIZED INTERSECTIONS – *John B.L. Robinson*, Senior Partner, Delphi-MRC, Scotsburn, NS

THE HUNTER RIVER CHALLENGE: CONTEXT SENSITIVE DESIGN FOR A RURAL HIGHWAY COMMUNITY – *John B.L. Robinson*, Senior Partner, Delphi-MRC, Scotsburn, NS

THE IMPACT OF BUILDING INFORMATION MODELING (BIM) AND VIRTUAL DESIGN AND CONSTRUCTION (VDC) ON COMPANY BUSINESS PROCESSES – *Terry D. Bennett*, Senior Industry Manager, Civil Engineering and Heavy Construction, Autodesk Inc., Manchester, NH

NEW REALITIES WITH RECYCLING MATERIALS

SOILS/MAT

PAVE

ENV

SUST DEV

MTN/CONST

MUNICIPAL

THEME

Chair: *Daryl Nixon*, Director, Materials and Pavements Practice, EBA Engineering Consultants Ltd., Edmonton

SUMMARY OF CITY OF SASKATOON "GREEN STREET" INFRASTRUCTURE PROGRAM – *Curtis Berthelot*, Professor and Director of Saskatchewan Centre of Excellence in Transportation and Infrastructure, *Diana Podborochynski*, Engineer in Training, and *Colin Wandzura*, Engineer in Training, University of Saskatchewan,

Saskatoon; *Rielle Haichert*, Engineer in Training, and *Brian Taylor*, PSI Technologies Inc., *Duane Guenther*, and *Sheri Praski*, City of Saskatoon, SK

QUANTIFYING GREENHOUSE GAS EMISSION REDUCTIONS WHEN UTILIZING ROAD RECYCLING MAINTENANCE PROCESSES – *Christopher Holt*, Senior Remediation and Transportation Engineer, AMEC Earth and Environmental, Dartmouth, NS

DESIGN OF FULL-DEPTH RECLAMATION WITH PORTLAND CEMENT (FDR-PC) PAVEMENTS – *Gregory E. Halsted*, Market Manager, Pavements, Portland Cement Association, Bellingham, WA

CRUSHING AND PROCESSING RECLAIMED CONCRETE FOR CITY OF SASKATOON REHABILITATION OF ROAD STRUCTURES – *Curtis Berthelot*, *Colin Wandzura*, Engineer in Training, *Rielle Haichert*, Engineer in Training, and *Brian Taylor*, PSI Technologies Inc., Saskatoon, SK; *Duane Guenther*, and *Sheri Praski*, City of Saskatoon, SK

TRAFFIC CONTROL MEASURES THAT ENCOURAGE A SHIFT IN TRAVEL MODES

TRAFFIC

MUNICIPAL

SUST DEV

ITS

Chair: *Tom O'Connell*, Manager, Traffic Control and Parking, City of Regina

TRAVEL TIME ESTIMATION IN URBAN NETWORKS USING BUSES AS PROBES – *Mohamed El Esawey*, Ph.D. Candidate and Research Assistant, and *Tarek Sayed*, Professor, University of British Columbia, Vancouver

TRANSIT SIGNAL PRIORITY (TSP) IN THE URBAN ENVIRONMENT: CHALLENGES, CHALLENGES AND CHALLENGES – *Daniel Beaulieu*, Transportation and Traffic Engineer, City of Montreal

BUS PRIORITY MEASURES IN CALGARY: PAST, PRESENT AND FUTURE – *Chris Jordan*, Coordinator, Strategic Transit Planning, *Nora Kajdy*, Transit Priority Engineer, and *Neil McKendrick*, Manager, Transit Planning, City of Calgary

LE CENTRE DE GESTION DE LA MOBILITÉ URBAINE (CGMU) DE LA VILLE DE MONTRÉAL (THE CITY OF MONTREAL'S CENTRE FOR THE MANAGEMENT OF URBAN MOBILITY) – *Guillaume Longchamps*, Planning Advisor, and *Hugues Bessette*, City of Montreal

A SUSTAINABLE TRANSPORTATION STUDY FOR CALGARY: A MULTIMODAL APPROACH – *Naveed Butt*, and *Jen Malzer*, City of Calgary; *Alfred A. Guebert*, Manager, Transportation Planning, Southern Alberta, AECOM, Calgary; *Heather Stevenson*, *A'Arif Hamad* and *Nabila Haque*, AECOM

MANAGING THE RISK OF AGING INFRASTRUCTURE IN THE FACE OF CLIMATE CHANGE AND REDUCED OPERATING BUDGETS

MTN/CONST

SUST DEV

ENV

PAVE

STRUCTURE

Chair: *Gary Todd*, Manager, Design and Contract Standards Office, Ministry of Transportation of Ontario, St. Catharines

DEVELOPMENT OF PRIORITY RANKING METHODOLOGY AND PROCESS FOR PROVINCIAL HIGHWAY INFRASTRUCTURE INVESTMENT IN SASKATCHEWAN – *Andrew Liu*, Senior Manager, Infrastructure Policy, Saskatchewan Ministry of Highways and Infrastructure, Regina; *Harold Hugg*, *George Stamatinos* and *Ben Liu*, Saskatchewan Ministry of Highways and Infrastructure

MEETING THE DUAL CHALLENGE OF BUDGET CONSTRAINT AND ENVIRONMENTAL SUSTAINABILITY: A CASE STUDY OF THE RURAL ROAD NETWORK OF STRATHCONA COUNTY, ALBERTA – *Masood Hassan*, Senior Transportation Engineer, *Dave Palsat*, Senior Vice-president, Transportation, and *Gerard Kennedy*,

Senior Project Engineer, EBA Engineering Consultants Ltd., Edmonton; *Robyn McGregor*, Senior Transportation Engineer and Principal Consultant, EBA Engineering Consultants Ltd., Calgary; *Richard Dekker*, Supervisor, Technical Services and Special Projects, Engineering and Environmental Planning Department, Strathcona County, AB

MANAGING THE RISK OF AGING PAVEMENT INFRASTRUCTURE IN NEW BRUNSWICK THROUGH INNOVATIVE DECISION MAKING – *Shawn Landers*, President - Eastern Canada, Opus International Consultants (Canada) Limited, Fredericton, NB; *Jay Cunningham* and *John MacNaughton*, New Brunswick Department of Transportation

BEST PRACTICES FOR MANAGING AGING TRANSPORTATION INFRASTRUCTURE – *Simon Lewis*, Project Manager, AgileAssets, Media, PA; *Joe Garvey*, AgileAssets

INNOVATIVE CULVERT ASSET MANAGEMENT AND RELINING – *Brian Taylor*, Vice-president, Business Development, *Curtis Berthelot*, PSI Technologies Inc., Saskatoon, SK; *Brent Marjerison*, Director of Preservation and Surfacing, and *Rock Gorlick*, Regional Preservation Engineer, Saskatchewan Ministry of Highways and Infrastructure, Saskatoon; *Ron Gerbrandt*, Executive Director of Engineering Standards, Saskatchewan Ministry of Highways and Infrastructure, Regina

SUSTAINABLE WINTER SANDING WITH PRE-WETTING – *Max Perchanok*, and *Heather McClintock*, Ministry of Transportation of Ontario, St.Catharines, ON; *Jim Young* and *Kevin Fleming*

LOW-COST ROAD ENGINEERING SAFETY COUNTERMEASURES AND THEIR APPLICATION ACROSS CANADA

SAFETY

TRAFFIC

DESIGN

MTN/CONST

Chair: *Steve Melton*, General Manager, Roadways Design and Construction, ISL Engineering and Land Services Ltd., Edmonton

RECENT U.S. RESEARCH ON SAFETY EVALUATION OF LOW-COST ROAD ENGINEERING SAFETY COUNTERMEASURES – LESSONS FOR CANADA – *Bhagwant Persaud*, Professor, Department of Civil Engineering, Ryerson University, Toronto; *Kimberley Eccles*, VHB | Vanasse Hangen Brustlin, Inc., Raleigh, NC; *Roya Amjadi*, Office of Safety Research and Development, Federal Highway Administration, McLean, VA

ZONE OF INTRUSION AND CONCRETE BARRIER COUNTERMEASURES – *Stephen F. Hobbs*, Director, McElhanney Engineering Services Ltd., Surrey, BC

UNE NOUVELLE MESURE RENDANT LES PNEUS D'HIVER OBLIGATOIRES AU QUÉBEC (A NEW MEASURE MAKING WINTER TIRES MANDATORY IN QUÉBEC) – *Lise Fournier*, Engineer, and *Carl Bélanger*, Head, Safety Expertise and Technical Support Service, Ministry of Transport of Quebec, Quebec City

SAFETY ASSESSMENT OF AN UNDIVIDED TWO LANE HIGHWAY SECTION IN A DESIGN PROCESS – *Josée Dumont*, Engineer in Training, and *Alizera Hadayeghi*, Partner, Director, Transportation Engineering, CIMA+, Burlington, ON; *Chantal Dagenais*, Project Director, Traffic Engineering, and *Hélène Lévesque*, Project Engineer, Traffic Engineering, CIMA+, Laval, QC; *Isabel Lemaire*, Project Manager, Highway Engineering, CIMA+, Gatineau, QC

A MECHANISTIC APPROACH FOR EVALUATING THE SAFETY IMPACTS OF LEFT-TURN LANE OFFSETS – *David D.Q. Duong*, PhD Candidate, University of Waterloo, Waterloo, ON

PAVEMENT MAINTENANCE AND PRESERVATION

PAVE

SOILS/MAT

MTN/CONST

SUST DEV

R&D

Chair: *Jim Knox*, Assistant Director, New Brunswick Department of Transportation, Fredericton

USE OF PCC PAVEMENT TO REDUCE MAINTENANCE COSTS AND ADDRESS URBAN INTERSECTION RUTTING – *Lyle Treleaven*, Senior Pavements Engineer, EBA Engineering Consultants Ltd., Edmonton; *Kirk Morrison*, City of Lloydminster, AB; *Henry Surowaniec*, AT Operations Engineer, Peace Region, AB; *Doug Scheelar*, AT Maintenance Contract Inspector, Medicine Hat, AB

PAVEMENT PRESERVATION - SOLUTION FOR SUSTAINABILITY – *Becca Lane*, Head, *Susanne Chan*, Pavement Design Engineer, Pavements and Foundations Section, and *Tom Kazmierowski*, Manager, Material Engineering and Research Office, Ministry of Transportation of Ontario, Downsview

FORENSIC INVESTIGATION OF CRACKING IN A PORTLAND CEMENT STABILIZED FULL DEPTH RECYCLED PAVEMENT – *Christopher L. Barnes*, Assistant Professor, Department of Civil and Resource Engineering, Dalhousie University, Halifax

MINIMIZING REFLECTIVE CRACKING IN CEMENT-STABILIZED PAVEMENT BASES – *Gregory E. Halsted*, Market Manager, Pavements, Portland Cement Association, Bellingham, WA

PREVENTATIVE MAINTENANCE TREATMENTS: DO THEY IMPACT SKID RESISTANCE ON LTPP SECTIONS? – *Amir Abd El Halim*, Associate, Project Manager, Stantec Consulting Ltd., Kitchener, ON; *Susan Tighe*, Canada Research Chair in Pavement and Infrastructure Management, Professor, Department of Civil and Environmental Engineering, University of Waterloo, Waterloo, ON

CONCRETE OVERLAYS - SUSTAINABLE PAVEMENT PRESERVATION TECHNIQUES HELPING DOT'S ADJUSTING TO NEW REALITIES OF SHRINKING RESOURCES – *Tim Smith*, Director, Transportation and Public Works, and *Rico Fung*, Cement Association of Canada, Ottawa

QUANTIFYING PAVEMENT SUSTAINABILITY IN PROJECT AND NETWORK LEVEL PERSPECTIVES – *Peter Chan*, M.Sc. Candidate, and *Susan L. Tighe*, Canada Research Chair in Pavement and Infrastructure Management, Professor, Department of Civil and Environmental Engineering, University of Waterloo, Waterloo, ON

BEST PRACTICES IN URBAN TRANSPORTATION PLANNING (B)

MUNICIPAL

PLANNING

TRAFFIC

SUST DEV

R&D

Chair: *J. Allen Stewart*, Vice-principal, Academic, Royal Military College of Canada, Kingston, ON

IMPACT OF EVOLVING TRAVEL TRENDS ON URBAN TRANSPORTATION PLANNING IN CANADA: INSIGHTS FROM OTTAWA-GATINEAU – *David Kriger*, Vice-president, HDR | iTRANS, Ottawa

DEVELOPMENT OF A PROVINCE-WIDE STRATEGIC HIGHWAY TRAFFIC FORECASTING TOOL FOR ONTARIO – *Don Cleghorn*, Senior Project Manager, HDR | iTRANS, Toronto; *Muhammad Imran Khan*, Senior Advisor, Ministry of Transportation of Ontario, Toronto

PLANNING FOR MOBILITY HUBS: CREATING GREAT TRANSIT PLACES – *Lisa Salsberg*, Manager of Systems Planning and Strategic Policy, *Joshua Engel-Yan*, Senior Policy Advisor, *Abril Novoa Camino*, Intern, and *David Sajecki*, Policy Advisor, Strategic Policy and Systems Planning, Metrolinx (Greater Toronto Transportation Authority), Toronto

EVALUATION OF MULTI-MODAL TRANSPORTATION STRATEGIES FOR EMERGENCY EVACUATIONS – *Muhammad A. Habib*, Assistant Professor, and *Christina C. Clarke*, Graduate Student Researcher, Dalhousie University, Halifax

CONSTAT SUR LA MOBILITÉ DES PERSONNES DANS LA GRANDE RÉGION DE MONTRÉAL : FAITS SAILLANTS RÉVÉLÉS PAR L'ENQUÊTE ORIGINE-DESTINATION 2008 (PERSONAL MOBILITY IN THE MONTREAL METROPOLITAN AREA: OVERVIEW OF THE 2008 ORIGIN-DESTINATION SURVEY FINDINGS)

– *Hubert Verreault*, Transport Analyst, and *Daniel Bergeron*, Director, Mobility and Urban Transportation Information, Metropolitan Transportation Agency, Montreal

TUESDAY, SEPTEMBER 28 (AFTERNOON)

ANNUAL LUNCHEON 12:15

Chair: *Hon. Bill Estabrooks*, Minister of Transportation and Infrastructure Renewal of Nova Scotia and 2010 TAC Conference Chair

Speaker: *Jenna Boon*, Director, Joggins Fossil Institute, Joggins, Nova Scotia

Topic: From the Carboniferous to Carbon Neutral: Experiencing the Joggins Fossil Cliffs, Canada's Newest UNESCO World Heritage Site

TOUR C 14:00-17:00

RAGGED LAKE TRANSIT CENTRE

Tour Halifax Regional Municipality's new state-of-the-art transit centre at Ragged Lake. Scheduled to open this summer, the facility is an environmentally sustainable building designed to target LEED silver or higher design standards. Some of the green features include current water and energy efficiency models, use of at least 15% recycled construction materials, and products selected for improved indoor air quality. The 16,350 square-metre complex, which is located on a 6.5-hectare site, features two buildings – an operations centre and a service facility for bus maintenance. The Ragged Lake Transit Centre will enable Halifax Metro Transit to operate and maintain an additional 150 buses, with future space for a total of 200 transit vehicles. Its strategic location will help cut down on commuter congestion and result in fewer greenhouse gas emissions.

(This tour is covered by the conference registration fees. Tour tickets will be available in the conference registration area on a first-come, first-served basis.)

TOUR D-1 14:00-17:00

HALIFAX ROUNDABOUTS

View three roundabouts in operation or under construction in Halifax Regional Municipality. The first is the former Armdale Rotary which was transformed into a modern roundabout in 2007. The roundabout is unique in that it handles 55,000 vehicles a day with very disproportionate morning and afternoon traffic flows. The facility, which faces capacity challenges, has five legs with two reversing entry/exit lanes. The second facility to be toured is a diamond interchange on Highway 102 at Larry Uteck Boulevard in Bedford. Scheduled to open in 2010, the interchange will include two multi-lane roundabouts at the ramp terminal intersections and another roundabout leading to a surrounding subdivision. The third part of this tour will take participants to the Margeson Drive interchange on Highway 101. Funded by all three levels of government, the project is slated to be completed this year. The initiative includes the construction of two modern roundabouts at the ramp terminal intersections.

(This tour is covered by the conference registration fees. Tour tickets will be available in the conference registration area on a first-come, first-served basis.)

TOUR E-1 14:00-17:00

SNOWMELTER MANUFACTURING PLANT

Delegates will have a behind-the-scenes look at the Trecan Combustion snowmelter manufacturing plant located near Halifax. Witness firsthand the design and fabrication of snowmelters, ranging from portable diesel-fired units to in-ground, natural gas-fired melters with the capacity to handle 20 to 500 tonnes of snow every hour.

(This tour is covered by the conference registration fees. Tour tickets will be available in the conference registration area on a first-come, first-served basis.)

TOUR F 14:00-17:00

PORT OF HALIFAX

Delegates will have the opportunity to visit the Port of Halifax which focuses on four types of cargo – containerized, bulk, break bulk and roll-on/roll-off – as well as cruise ships. Covering 100 hectares, the port has connections to 150 countries via global shipping lines, along with trans-shipment and feeder services. You will tour the South End or Halterm Container Terminal comprising piers B and C, with its 30 hectares of land and 975 linear metres of dock. You will also see Ocean Terminals, a grain elevator and the Halifax Seaport.

(This tour is covered by the conference registration fees. Tour tickets will be available in the conference registration area on a first-come, first-served basis.)

TAC ANNUAL GENERAL MEETING 14:15

MEETING TO BE HELD IN CONJUNCTION WITH TAC CONFERENCE 14:15

Policy and Planning Support Committee, Council of Deputy Ministers Responsible for Transportation and Highway Safety (closed)

PANEL DISCUSSIONS 14:15

MAXIMIZING THE USE OF ROAD ALLOWANCES AND RIGHT-OF-WAYS

DESIGN

PLANNING

TRAFFIC

SUST DEV

MUNICIPAL

Chair: *Roy Biller*, Manager, Highway Design and Construction, ISL Engineering and Land Services Ltd., Edmonton

Program to be announced

ASSET MANAGEMENT FOR SMALL MUNICIPALITIES

MUNICIPAL

INFO MGT

PLANNING

PAVE

STRUCTURE

Chair: *Kim Mathisen*, Executive Director, Engineering Services, New Brunswick Department of Transportation, Fredericton

Program to be announced

SESSIONS 14:15

RESPONDING TO CLIMATE CHANGE: BEST PRACTICES

ENV

SUST DEV

PLANNING

PAVE

THEME

Chair: *Greg Cousineau*, Senior Transportation Planner, Northwest Territories Department of Transportation, Yellowknife

DEVELOPMENT OF A LIFE-CYCLE COSTING APPROACH FOR ROADS EXPOSED TO STORMS AND SEA LEVEL RISE – *Neil J. MacDonald*, Vice-president, Coldwater Consulting Ltd., Ottawa

CHALLENGES IN DECREASING GREENHOUSE GAS EMISSIONS BY PERMITTING THE USE OF WIDE BASE SINGLE TIRES – *Joseph Ponniah*, Senior Pavement Research Engineer, and *Becca Lane*, Head, Ministry of Transportation of Ontario, Downsview; *Ron Madill*, Coordinator, Vehicle Weights and Dimension, Ministry of Transportation of Ontario, London; *Simon Marchand*, LEBD LTD., Montreal; *Alfonso Corredor*, Senior Policy Advisor, Ministry of Transportation of Ontario, Toronto; *Ralph Haas*, The Norman W. McLeod Engineering Professor and Distinguished Professor Emeritus, University of Waterloo, Waterloo, ON

CLIMATE CHANGE ENGINEERING VULNERABILITY ASSESSMENT OF TRANSPORTATION INFRASTRUCTURE IN BRITISH COLUMBIA – *Dirk Nyland*, Chief Engineer, British Columbia Ministry of Transportation and Infrastructure, Victoria; *Joel R. Nodelman*, President, and *Joan Y.H. Nodelman*, Nodelcorp Consulting Inc., St. Albert, AB; *David Lapp*, Public Infrastructure Engineering Vulnerability Committee Secretariat, Engineers Canada, Ottawa

FUEL CONSUMPTION AND CARBON EMISSIONS OF TURNPIKE DOUBLES IN MANITOBA – *Thomas Baumgartner*, Research Associate, and *Jeannette Montufar*, Associate Professor, Civil Engineering, University of Manitoba, Winnipeg; *Jonathan Regehr*, Regehr Consulting

NOUVELLE APPROCHE DE PLANIFICATION ET DE GESTION DES INFRASTRUCTURES AÉROPORTUAIRES DU MINISTÈRE DES TRANSPORTS DU QUÉBEC AU NUNAVIK DANS UN CONTEXTE DE CHANGEMENTS CLIMATIQUES : VERS UNE STRATÉGIE D'ADAPTATION (INNOVATIVE APPROACHES TO PLANNING AND MANAGEMENT OF MINISTRY OF TRANSPORT OF QUEBEC AIRPORT INFRASTRUCTURE IN NUNAVIK, IN A CLIMATE CHANGE CONTEXT : DEVELOPING AN ADAPTATION STRATEGY) – *Anick Guimond*, Coordinator, Climate Change Research Projects, Ministry of Transport of Quebec, Rouyn-Noranda; *Gilles Grondin*, Head, Soil Mechanics Section, and *Maude Boucher*, Geotechnical and Geological Services, Ministry of Transport of Quebec

LOWERING THE CARBON FOOTPRINT OF CONCRETE

SOILS/MAT

PAVE

ENV

SUST DEV

R&D

MTN/CONST

Chair: *Sherry Sullivan*, Concrete Engineer, Canadian Ready Mixed Concrete Association, Mississauga, ON

INTEGRATION OF CARBON DIOXIDE CURING INTO PRECAST CONCRETE PRODUCTION – *Robert Niven*, President, and *Sean Monkman*, Director of Innovation, Carbon Sense Solutions, Halifax

FLASH METAKAOLIN/SLAG/CEMENT BINDER: AN ENVIRONMENTAL AND PERFORMANTIAL ALTERNATIVE FOR STEAM-CURED MORTAR FOR PRECAST USE – *Franck Cassagnabère*, and *Mohamed Lachemi*, Ryerson University, Toronto; *Gilles Escadeillas*, and *Michel Mouret*, Université de Toulouse, France; *Philippe Broilliard*, SEAC Gf, Toulouse, France

LOWERING THE CARBON FOOTPRINT OF CONCRETE BY REDUCING THE CLINKER CONTENT OF CEMENT – *Michael Thomas*, Professor, University of New Brunswick, Fredericton; *Ken Kazanis*, *Kevin Cail*, *Anik Delagrave* and *Bruce Blair*, Lafarge North America

DURABILITY OF CONCRETE UTILIZING BLENDED CEMENTS WITH ELEVATED LEVELS OF FLY ASH – *Bozena Czarnecki*, Principal Specialist, and *Ward Johnston*, Project Consultant, Materials and Pavement Group, EBA Engineering Consultants Ltd., Calgary; *Walter Dobslaw*, Manager Fly Ash, Lehigh Inland Cement Limited

ACTIVE TRANSPORTATION – SUCCESSES AND CHALLENGES

MUNICIPAL

SUST DEV

TRAFFIC

PLANNING

Chair: *Geoff Noxon*, President, Noxon Associates Limited, Ottawa

A REVIEW OF ACTIVE TRANSPORTATION PLANS IN ATLANTIC CANADIAN COMMUNITIES: MOTIVES, HURDLES, AND PITFALLS – *Radya Rifaat*, Engineer Transportation Land Development, Hatch Mott MacDonald Ltd., Rothesay, NB

DELIVERING THE ACTIVE TRANSPORTATION INFRASTRUCTURE STIMULUS PROJECT (ATISP) IN WINNIPEG – *Bill Woroby*, Project Management Engineer, and *Kevin Nixon*, City of Winnipeg; *Robert Kurylko*, Senior Transportation Engineer, Stantec Consulting Ltd., Winnipeg; *Ruth Marr*, President, Marr Consulting Services

DEVELOPMENT OF THE ASSINIBOINE AVENUE BIKEWAY IN WINNIPEG, MANITOBA – *Robert Kurylko*, Senior Transportation Engineer, Stantec Consulting Ltd., Winnipeg; *Kevin Nixon*, City of Winnipeg; *Ruth Marr*, President, Marr Consulting Services; *Lisa Holowchuk*, Scatliff + Miller + Murray Inc.

MAKING TRACKS: ACTIVE AND SAFE ROUTES TO SCHOOL -- WALKING, CYCLING, IN-LINE SKATING AND SKATEBOARDING – *Jennifer McGowan*, MA, Community Advisor, and *Janet Barlow*, Active and Safe Routes to School Coordinator, Ecology Action Centre, Halifax; *Andrew Foran*; *Cheyenne Dickinson*; *Dan Robinson*; *Zac Crouse*

TAC'S NEW PUBLICATION – ACTIVE TRANSPORTATION: MAKING IT WORK IN CANADIAN COMMUNITIES – *Brian Hollingworth*, Director, IBI Group, Toronto

INNOVATIVE WAYS TO INCREASE TRAFFIC SAFETY AND EFFICIENCY

TRAFFIC

SAFETY

ITS

Chair: *Heide Schlegl*, Coordinator, Traffic and Parking, Town of Milton, ON

REHABILITATION OF THE ARMDALE ROTARY – *Mark Lenters*, President, Ourston Roundabout Engineering Inc., Madison, WI

EVALUATION OF ANALYTICAL TOOLS USED FOR THE OPERATIONAL ANALYSIS OF ROUNDABOUTS – *Goran Nikolic*, Head, Traffic Planning, Ministry of Transportation of Ontario, Toronto

INTELLIGENT TRANSPORTATION SYSTEMS (ITS) TECHNOLOGIES FOR COMMERCIAL VEHICLE COMPLIANCE IN THE MARITIMES – *Randy Hanson*, Executive Vice-president and Chief Operating Officer, International Road Dynamics Inc., Saskatoon, SK; *Rod Klashinsky*, Vice-president Sales and Special Projects, and *Scott McGibney*, Technical Specialist, International Road Dynamics Inc.

ÉVALUATION DE LA CAPACITÉ DE LECTURE DES INSCRIPTIONS SUR LES PANNEAUX DE DESTINATION ET D'ÉQUIPEMENTS TOURISTIQUES (EVALUATING THE READABILITY OF INFORMATION PROVIDED ON TOURIST INFORMATION AND DESTINATION SIGNAGE) – *Simon Trépanier*, Engineer, Ministry of Transport of Quebec, Quebec City; *Thérèse Audet*, Sherbrooke University, QC

QUEEN ELIZABETH WAY / MARTINDALE ROAD BRIDGE DEMOLITION DETOUR ANALYSIS – *Fabio Saccon*, Area Traffic Manager, *Bernard James*, Engineer in Training, *Martin Sneepe*, Senior Project Manager, and *Lance Dutchak*, Traffic Supervisor, Ministry of Transportation of Ontario, Downsview

REVERSIBLE LANES IN UTAH - ADDING EFFICIENCY SAFELY – *Alfred A. Guebert*, Manager Transportation Planning, Southern Alberta, AECOM, Calgary; *Diego Carroll*, AECOM; *Brandon Weston* and *Dave Kinnecom*, UDOT

2009 TAC ENVIRONMENTAL ACHIEVEMENT AWARD NOMINATIONS

ENV

SUST DEV

MUNICIPAL

Chair: *Scott Hanna*, Regional Director, North America / Hatch Associate, Environment Services Group, Hatch Ltd., Vancouver

TAC members that have made a 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.

A selection committee has reviewed the nominations received for the 2009 award and recommended a winner to TAC's Board of Directors. The award will be conferred at the delegate luncheon scheduled for Monday, September 27. As well, nominees have been invited to give presentations on their respective projects at this session.

HIGHWAY A-25 COMPLETION PROJECT (MINISTRY OF TRANSPORT OF QUEBEC, CONCESSION A25 (PPP CONCESSIONNAIRE) AND KIEWIT-PARSONS) – *David Maréchal*, Environmental Manager, Eastern Canada District, Kiewit

THE HARMONIZED ENVIRONMENTAL CONSTRUCTION OPERATIONS (ECO) PLAN FRAMEWORK (ALBERTA TRANSPORTATION, CITY OF CALGARY AND CITY OF EDMONTON) – *Don Snider*, Manager, Regional Environmental Coordination, Environmental Management Services, Alberta Transportation, Edmonton

THE DETROIT RIVER INTERNATIONAL CROSSING ENVIRONMENTAL ASSESSMENT STUDY (MINISTRY OF TRANSPORTATION OF ONTARIO AND TRANSPORT CANADA) – *Raymond Mantha*, Executive Director, Provincial Highways Management, Ministry of Transportation of Ontario, St. Catharines

FARM WINDBREAKS – COMMUNICATIONS PROGRAM AND COOPERATIVE PROJECTS (MINISTRY OF TRANSPORTATION OF ONTARIO) – *James Corcoran*, Environmental Planner, Ministry of Transportation of Ontario, London

ADAPTING TO CLIMATE CHANGE IN A NATIONAL HISTORIC DISTRICT – FRONT STREET PAVING PROJECT, DAWSON CITY, YUKON (YUKON HIGHWAYS AND PUBLIC WORKS) – *Robin Walsh*, Director, Transportation Engineering Branch, Yukon Highways and Public Works, Whitehorse

TOWN OF RICHMOND HILL SNOW STORAGE FACILITY (TOWN OF RICHMOND HILL) – *John Nemeth*, Manager of Water Resources, Engineering and Public Works, Town of Richmond Hill, ON

BRIDGES – ADJUSTING TO NEW REALITIES (B)

STRUCTURE

MTN/CONST

SOILS/MAT

THEME

Chair: *Brian J. Wood*, Senior Bridge Engineer, Stantec Consulting Ltd., Winnipeg

DESIGN AND CONSTRUCTION OF THE SAINT ALBERT BRIDGE – *Mekdam Nima*, Manager, Bridges, AECOM, Burnaby, BC; *Nolan Domenico*; *Tony Ruban*

INNOVATIONS IN SOIL-METAL BRIDGES – *Luke MacDonald*, M.A.Sc Student and *John Newhook*, Professor, Centre for Innovation in Infrastructure, Dalhousie University, Halifax; *Wayne Ford*, Director Innovation/Engineering, Atlantic Industries Limited

ADJUSTING TO NEW REALITIES OF BRIDGE AESTHETICS, ENGINEERING AND ARCHITECTURE – *W. Victor Anderson*, Executive Vice-president, Delcan Corporation, Markham, ON; *Diana Hamilton*, Senior Architect, LEED A.P., and *Brent Ritchie*, Engineer in Training, Delcan Corporation

CONSTRUCTION D'UN PONT LEVANT AU CANAL DE CHAMBLY (CONSTRUCTION OF A LIFT BRIDGE OVER THE CHAMBLY CANAL) – *Daniel Filion*, Director of Transportation, GENIVAR, Longueuil, QC; *Tony Mailhot*, Director of Structures, GENIVAR

POSTER SESSION 14:15

PAVEMENT EVALUATION, PERFORMANCE AND MANAGEMENT

PAVE

SOILS/MAT

R&D

MTN/CONST

Chair: *Tom Kazmierowski*, Manager, Material Engineering and Research Office, Ministry of Transportation of Ontario, Downsview

COMPARISON OF MECHANISTIC-EMPIRICAL PAVEMENT DESIGN GUIDE (MEPDG) VERSIONS AND THEIR SENSITIVITY TO CLIMATE CHANGE – *Vimy Henderson*, PhD Candidate, *Susan L. Tighe*, Professor and Canada Research Chair, Civil and Environmental Engineering Department, *Brian Mills*, Researcher, Adaptation and Impacts Research Division, Atmospheric Science and Technology Directorate, and *Jean Andrey*, Professor, Department of Geography and Environmental Management, University of Waterloo, Waterloo, ON

FORENSIC PAVEMENT STUDY: PRACTICAL METHODS, ANALYSIS AND APPLICATIONS – *Chris Olmedo*, LTPP Data Analyst, and *Richard Korczak*, Stantec Consulting Ltd., Kitchener, ON

INNOVATIVE PRESERVATION TREATMENTS TO ADDRESS PREMATURE PAVEMENT ROUGHNESS ON A SWELLING CLAY SUBGRADE IN ALBERTA – *Mohammad Karim*, Senior Pavements Engineer, and *Dave Palsat*, Senior Vice-president, EBA Engineering Consultants Ltd., Edmonton; *Art Johnston*, Principal Transportation, EBA Engineering Consultants Ltd., Calgary; *Trent McLaughlin*, Construction Manager, Alberta Transportation, Peace River

CANADIAN PAVEMENT DESIGN AND MANAGEMENT CURRENT STATE-OF-THE-PRACTICE – *Susan L. Tighe*, Professor and Canada Research Chair, Civil and Environmental Engineering Department, University of Waterloo, Waterloo, ON; *Marta Juhasz*, Chair of Project Steering Committee, Surfacing Standards Specialist, Alberta Transportation

AN INNOVATIVE APPROACH FOR THE DEVELOPMENT OF PAVEMENT PERFORMANCE PREDICTION MODELS WITH LIMITED HISTORICAL DATA – *Amr Ayed*, Project Manager, Stantec Consulting Ltd., Kitchener, ON; *Leanne Whiteley-Lagace*, Pavement Engineer, Stantec Consulting Ltd., Hamilton, ON

PROPERTIES AND USES OF CEMENT-MODIFIED SOIL FOR PAVEMENTS – *Gregory E. Halsted*, Market Manager, Pavements, Portland Cement Association, Bellingham, WA

EVALUATING THE EFFECTIVENESS OF PAVEMENT PRESERVATION TREATMENTS – *David K. Hein*, Vice-president, Transportation, Applied Research Associates, Inc., Toronto

CONCRETE PAVEMENT REHABILITATION TECHNIQUES AND CANADIAN BASED CASE STUDIES – *Rico Fung*, Director, Markets and Technical Affairs, Cement Association of Canada, Toronto; *Tim Smith*, Director, Transportation and Public Works, Cement Association of Canada, Ottawa

SOCIO-ECONOMIC BENEFITS OF ROAD REHABILITATION – *Gary St. Michel*, Technical Director, Asset Management Group, EBA Engineering Consultants Ltd., Vancouver; *Alan Reggin*, Pavement Engineer, EBA Engineering Consultants Ltd.; *Rodrigo Disegni*, Senior Manager of Rehabilitation Program, and *Rodney Chapman*, Director of Construction and Maintenance, and *Reg Fredrickson*, Director of Rehabilitation and Maintenance, British Columbia Ministry of Transportation and Infrastructure

USE OF GROUND PENETRATING RADAR (GPR) AND MULTI-CHANNEL ANALYSIS OF SURFACE WAVES (MASW) TO COMPLEMENT BACKCALCULATED MODULI AND DESIGN LIFE CALCULATIONS – *Edmund Surette*, PhD Candidate, *Christopher L. Barnes*, Assistant Professor, Department of Civil and Resource Engineering, and *Nouman Ali*, Dalhousie University, Halifax

INSTRUMENTED PAVEMENT RESPONSES UNDER STANDARD AND REDUCED TIRE PRESSURES –
Qingfan Liu, M.Sc. Candidate, *Leonnie Kavanagh*, PhD Candidate, and *Ahmed Shalaby*, Associate Dean and Associate Professor, Faculty of Engineering, University of Manitoba, Winnipeg

MEETING 15:15

Board of Directors (closed)

WEDNESDAY, SEPTEMBER 29 (MORNING)

SPEAKERS' BREAKFAST 07:15

(By invitation only)

REGISTRATION 08:00-16:30

MEETING TO BE HELD IN CONJUNCTION WITH TAC CONFERENCE 08:00

Council of Deputy Ministers Responsible for Transportation and Highway Safety (closed)

WORKSHOPS 08:30

(See the **enclosed workshop folder and registration form** for descriptions of the workshops. **Please fill out the form and return it to the TAC office**, along with your conference registration form. There is no extra charge for participating in one of these workshops.)

A – SYSTEMS FOR INCORPORATING FULL ENVIRONMENTAL COSTS INTO DECISION-MAKING

ENV

PLANNING

SUST DEV

B – RELATIONSHIP BETWEEN ROAD SAFETY AND GEOMETRIC DESIGN

DESIGN

SAFETY

TRAFFIC

C – URBAN TRANSPORTATION INDICATORS: ADJUSTING PROJECTS AND PROGRAMS TO THE REALITIES

MUNICIPAL

SUST DEV

THEME

INFO MGT

PANEL DISCUSSIONS 09:00

NATURALISTIC DRIVING STUDY RESEARCH – DRIVER BEHAVIOUR AND CRASH RISK

SAFETY

TRAFFIC

DESIGN

R&D

Chair: *Paul Boase*, Chief, Road Users, Transport Canada, Ottawa

This panel will discuss the U.S. Strategic Highway Research Program (SHRP2), which is looking at capacity, renewal, reliability and safety. A focus will be on the technique of naturalistic driving studies and what can be learned from them, what data is collected and how it can be used and linked to other roadway type data. There will be a discussion of the American and Canadian naturalistic driving studies.

Panelists

Panelists to be announced

Discussion and Question-and-answer Period

WHAT DOES THE GRADUATE OF 2010 WANT IN AN EMPLOYER?

EDUC/HR

PLANNING

THEME

Co-chairs: *Kerry Buckley*, Manager, East – Highways and Borders, Surface Infrastructure Programs, Transport Canada, Ottawa, and *Don McKibbin*, Executive Director, Highway Regional Operations, Engineering and Operations Division, Manitoba Infrastructure and Transportation, Brandon

Panelists

Anne-Marie Leclerc, Assistant Deputy Minister, Infrastructure and Technologies, Ministry of Transport of Quebec, Quebec City

Maxine MacPhee, Human Resource Consultant and Team Leader, Atlantic, Stantec Consulting Ltd., Dartmouth, NS

Ryan Phillips, Project Officer, Surface Infrastructure Programs, Transport Canada, Ottawa

Andrew Murphy, Project Engineer, Nova Scotia Transportation and Infrastructure Renewal, Elmsdale

Edmund Surette, PhD Candidate, Dalhousie University, and Project Manager – Materials Engineering, Maritime Testing (1985) Limited, Dartmouth, NS

Shannon O'Connell, MAsc. Candidate, Dalhousie University, Halifax

Discussion and Question-and-answer Period

ADJUSTING TO THE NEW REALITIES OF REDUCING GREENHOUSE GAS EMISSIONS

ENV

SUST DEV

THEME

Chair: *Graham Gilfillan*, President, International Road Technologies Inc., Kamloops, BC

This panel will discuss how to reach an agreement on a reduction pathway for greenhouse gas emissions in Canada, what role the transportation sector should play in reaching an agreement, how to engage the public, what the target reductions will likely be, how the transportation industry can meet the targets and what the implications are for on-road transportation.

Panelists

Panelists to be announced

Discussion and Question-and-answer Period

TECHNOLOGY IN THE DESIGN PROCESS

DESIGN

TRAFFIC

Program to be announced

Discussion and Question-and-answer Period

NEW ADVANCES IN GOODS MOVEMENT PLANNING

MUNICIPAL

PLANNING

TRAFFIC

Chair: *Teresa Marando*, Manager, Systems Analysis and Forecasting Office, Ministry of Transportation of Ontario, Toronto

Panelists

METROLINX GTHA (GREATER TORONTO AND HAMILTON AREA) URBAN FREIGHT STUDY – *Lisa Salsberg*, Manager, Strategic Policy and Systems Planning, Metrolinx, Toronto

Other panelists to be announced

Discussion and Question-and-answer Period

GEOTECHNICAL CHALLENGES IN A DESIGN/BUILD ENVIRONMENT

SOILS/MAT

PAVE

MTN/CONST

Chair: *Chris Olidis*, Principal Engineer, Applied Research Associates, Inc., Toronto

Panelists

Louis D'Amours, Vice-president, Business Development, Groupe Qualitas Inc., Montreal

David A. Field, Principal Consultant, Prairie Region, EBA Engineering Consultants Ltd., Calgary

Alastair Gorman, Associate, Thurber Engineering Ltd., Oakville, ON

Michael L.J. Maher, Global Client Sector Leader – Transportation, Golder Associates Ireland, Kildare, Ireland

Jamie Weatherbee, PCPL Geotechnical and Materials, NB/PEI, Stantec Consulting Ltd., Fredericton

Discussion and Question-and-answer Period

WEDNESDAY, SEPTEMBER 29 (AFTERNOON)

PRESIDENT'S LUNCHEON 12:15

Chair: *Robert Smart*, Deputy Minister, Newfoundland and Labrador Department of Transportation and Works, and President of TAC

Speaker: Captain(N) *Art McDonald*, Commander, Fifth Maritimes Operations Group, Halifax

Topic: Canadian Navy's Response to the Disastrous Earthquake in Haiti

TOUR D-2 14:00-17:00

HALIFAX ROUNDABOUTS

See Tuesday afternoon tour description.

(This tour is covered by the conference registration fees. Tour tickets will be available in the conference registration area on a first-come, first-served basis.)

TOUR E-2 14:00-17:00

SNOWMELTER MANUFACTURING PLANT

See Tuesday afternoon tour description.

(This tour is covered by the conference registration fees. Tour tickets will be available in the conference registration area on a first-come, first-served basis.)

TOUR G 14:00-17:00

HALIFAX WASTE PROCESSING AND MATERIALS RECOVERY FACILITIES

Visit the Otter Lake waste processing and disposal facility (Otter Lake landfill site) and the materials recovery facility – two of several centres which make up part of Halifax Regional Municipality (HRM)'s award-winning integrated source separation system. HRM has one of the best separation systems in all of Canada with 60 per cent of all waste generated by both residents and industry being diverted from the landfill facility and recycled or composted. The Otter Lake landfill site is one of seven second-generation landfills in Nova Scotia and the only one in the province where all waste is further processed and sorted. You will see the initial front-end processor on the tipping floor, the waste stabilization facility to handle any organics, as well as the final residuals disposal facility which processes approximately 500 to 600 tonnes of waste per day. Every year, the materials recovery facility processes and sorts approximately 22,000 tonnes of recyclable material sent to market for reprocessing.

(This tour is covered by the conference registration fees. Tour tickets will be available in the conference registration area on a first-come, first-served basis.)

TOUR H 14:00-17:00

NAVY SHIP (DND)

Ever wonder what it's like to go to sea? Tour participants will have a rare opportunity to visit CFB Halifax and HMC Dockyard as Maritime Forces Atlantic will provide a perspective that few outside the services have ever experienced. From "the bridge" in Juno Tower, you will be treated to a panoramic overview of the base and dockyard as you are briefed on projects and the complexities of operations in a maritime environment. Next, there will be an upper deck tour of a Halifax-class frigate, as well as a window tour of the dockyard. Finally, you will visit the headquarters for a briefing on the maritime operating area and Joint Task Force Atlantic. Sign up early as this tour is bound to fill up fast!

Delegates wishing to participate in this tour must produce government-issued photo identification for security pre-clearance.

(This tour is covered by the conference registration fees. Tour tickets will be available in the conference registration area on a first-come, first-served basis.)

MEETING TO BE HELD IN CONJUNCTION WITH TAC CONFERENCE 14:15

Council of Deputy Ministers Responsible for Transportation and Highway Safety (closed)

PANEL DISCUSSION 14:15

INFLUENCING TRAVEL CHOICE AND BEHAVIOUR

MUNICIPAL

SUST DEV

TRAFFIC

Chair: *Wanda Richardson*, Director, Regional Business Development, Hatch Mott MacDonald Ltd., Kitchener, ON

Panelists

INFLUENCING THE SCHOOL TRIP: EVIDENCE-BASED RESULTS AND TECHNIQUES FROM NATIONAL AND REGIONAL SCHOOL-BASED TRANSPORTATION DEMAND MANAGEMENT (TDM) PROJECTS – *Jennifer Lay*, Program Coordinator, School-based TDM, Metrolinx, Toronto; *Jacky Kennedy*, Director, Canada Walks, Green Communities Canada; *Jennifer Jenkins*, Project Manager, Active and Safe Routes to School, Halton District School Board, ON

VANCOUVER'S OLYMPIC EXPERIENCE: LESSONS LEARNED FOR INFLUENCING TRAVEL BEHAVIOUR – *Brian Mills*, Director, Strategic Planning and Policy, TransLink (South Coast British Columbia Transportation Authority), Burnaby

BIXI – MONTREAL'S SELF-SERVICE BIKESHARING PROGRAM, QUEBEC – Speaker to be announced

CHILD AND YOUTH FRIENDLY LAND USE AND TRANSPORT PLANNING GUIDELINES – *Catherine O'Brien*, School of Education, Health and Wellness, Cape Breton University, Sydney, NS

Discussion and Question-and-answer Period

SESSIONS 14:15

RIGHT-SIZING OF TRANSIT SYSTEMS

MUNICIPAL

PLANNING

SUST DEV

TRAFFIC

Chair: *Dave Roberts*, Director of Transportation and Infrastructure, STV Canada Consulting Inc., Toronto

RIGHT-SIZING TRANSIT: WHAT IS A REASONABLE LEVEL OF TRANSIT INVESTMENT? – *Wally Beck*, Vice-president, HDR I iTRANS, Richmond Hill, ON; *Mark Mis*, HDR I iTRANS

MAKING IT HAPPEN: TOWARDS INTEGRATED AND REGIONALIZED PUBLIC TRANSIT SYSTEMS – *Iona To*, Transit Planner, Stantec Consulting Ltd., Vancouver

UN SYSTÈME DE TRANSPORT POUR SUPPORTER LES ACTIVITÉS ET LE DÉVELOPPEMENT DU CENTRE-VILLE (A TRANSPORTATION SYSTEM TO SUPPORT DOWNTOWN ACTIVITIES AND DEVELOPMENT) – *Vincent Ermatinger*, GENIVAR, Montreal; *Emmanuel Felipe*, Montreal

PERMEABLE PAVEMENT DESIGN AND TECHNOLOGY

PAVE

SOILS/MAT

MTN/CONST

R&D

Chair: *Ahmed Shalaby*, Associate Dean (Undergraduate), Faculty of Engineering, University of Manitoba, Winnipeg

PERVIOUS CONCRETE PAVEMENT PERFORMANCE IN FIELD APPLICATIONS AND LABORATORY TESTING – *Vimy Henderson*, PhD Candidate, and *Susan L. Tighe*, Professor, Canada Research Chair, Civil and Environmental Engineering Department, University of Waterloo, Waterloo, ON

OPTIMIZING THE STRENGTH AND PERMEABILITY OF PERVIOUS CONCRETE – *Amanda Lidia Alaica*, Student, *Mahsa Heidari Dolatabadi*, Student, *Anto Sucic*, Student, Medhat Shehata, Associate Professor, Ryerson University, Toronto

STRUCTURAL AND HYDROLOGICAL DESIGN OF PERMEABLE PAVEMENTS – *David K. Hein*, Vice-president, Transportation, *D.J. Swan*, Senior Engineer, and *Lori Schaus*, Project Engineer, Applied Research Associates, Inc., Toronto

GENERATING AND IMPLEMENTING FORWARD LOOKING INNOVATIONS IN PAVEMENT RESEARCH – *Ralph Haas*, The Norman W. McLeod Engineering Professor and Professor Emeritus, University of Waterloo, Waterloo, ON

IMPROVING SOIL STIFFNESS BENEATH PAVEMENTS USING POLYURETHANE INJECTION – *Mark Popik*, Senior Engineer, Applied Research Associates, Inc., Toronto; *Mike Trout*, URETEK ICR, LLC, Lakeland, FL; *Randall W. Brown*, URETEK USA, Inc., Tomball, TX

CANADA'S ROAD SAFETY VISION SUCCESSOR PLAN FOR 2015 AND OTHER SAFETY PLANS

SAFETY

TRAFFIC

PLANNING

DESIGN

R&D

Chair: To be announced

ASSESSMENT OF THE CRASH MODIFICATION FACTORS IN THE HIGHWAY SAFETY MANUAL FOR USE IN CANADA – *Bernard James*, Master's Candidate, *Yongsheng Chen*, and *Bhagwant Persaud*, Professor, Department of Civil Engineering, Ryerson University, Toronto

TABLE QUÉBÉCOISE DE LA SÉCURITÉ ROUTIÈRE, DEUXIÈME RAPPORT DE RECOMMANDATIONS (QUEBEC ROAD SAFETY TASK FORCE - SECOND RECOMMENDATIONS REPORT) – *Catherine Berthod*, Engineer and Urban Planner, *Laurent Audet*, and *Carl Bélanger*, Ministry of Transport of Quebec, Quebec City

INNOVATION IN INTERCHANGE DESIGN

DESIGN

TRAFFIC

Chair: *John B.L. Robinson*, Senior Partner, Delphi-MRC, Scotsburn, NS

INNOVATION IN INTERCHANGE DESIGN - GOLDEN HILL TO WEST PORTAL – *Laurie Humble*, Senior Transportation Engineer, and *Glen Furtado*, Transportation Practice Leader – Alberta, Urban Systems Ltd., Calgary

INNOVATIVE PLANNING AND DESIGN OF A SYSTEMS INTERCHANGE ON THE CALGARY RING ROAD – *Aziz Merali*, Senior Transportation Engineer, and *Edward Tahmazian*, Senior Consultant, Focus Corporation, Calgary

MCTAVISH ROAD INTERCHANGE - A ROUNDABOUT SOLUTION – *Tim Blackburn*, Senior Transportation Engineer, Urban Systems Ltd., Kelowna, BC; *Jose Pinto*, Manager of Traffic Division, McElhanney Engineering Services Ltd.

ROUNDABOUTS AT THE LARRY UTECK INTERCHANGE IN HALIFAX – *Phil Weber*, Principal, Project Manager, Ourston Roundabouts Canada, Richmond Hill, ON; *Keith Boddy*, Senior Highway Design Engineer, Nova Scotia Department of Transportation and Infrastructure Renewal, Halifax

DEVELOPMENT OF NEW TECHNOLOGIES FOR CLASSIFICATION OF MATERIALS

SOILS/MAT

PAVE

R&D

MTN/CONST

Chair: *Hugh Donovan*, Construction Services Engineer, City of Edmonton

USING HIGH-SPEED GROUND PENETRATING RADAR FOR EVALUATION OF ASPHALT DENSITY MEASUREMENTS – *Mark Popik*, Senior Engineer, Applied Research Associates, Inc., Toronto; *Ken Maser*, Infrasense Inc., Arlington, MA; *Charles Holzschuher*, Nondestructive Testing, FDOT State Materials Office, Gainesville, FL

SENSITIVITY OF SUBGRADE RESILIENT MODULUS TO MOISTURE VARIATION – *Haithem Soliman*, Graduate Student, and *Ahmed Shalaby*, Professor, Department of Civil Engineering, University of Manitoba, Winnipeg

CHEMICAL STABILIZATION OF INHERENTLY WEAK SUBGRADE SOILS FOR ROAD CONSTRUCTION - APPLICABILITY IN CANADA – *Christopher Holt*, Senior Remediation and Transportation Engineer, AMEC Earth and Environmental, Dartmouth, NS

LABORATORY TESTING OF VANCOUVER HMA MIXES CONTAINING RECYCLED ASPHALT SHINGLES – *Ludomir Uzarowski*, Associate, Pavement and Materials Engineering, Golder Associates Ltd., Whitby, ON

EVALUATION OF RECYCLED PAVEMENT TEST SECTIONS WITH ALTERNATIVE SURFACING SYSTEMS AT THE UNIVERSITY OF SASKATCHEWAN – *Curtis Berthelot*, Professor and Director of Saskatchewan Centre of Excellence in Transportation and Infrastructure, University of Saskatchewan, Saskatoon; *Brian Taylor*, *Rielle Haichert*, Engineer in Training, and *Diana Podborochynski*, Engineer in Training, PSI Technologies Inc., Saskatoon, SK; *Daryl Cherry*, and *Mike Malone*, University of Saskatchewan Facilities Management Division, Saskatoon

POSTER SESSION 14:15

BRIDGES – ADJUSTING TO NEW REALITIES

STRUCTURE

MTN/CONST

SOILS/MAT

THEME

Chair: *Brian Wood*, Senior Bridge Engineer, Stantec Consulting Ltd., Winnipeg

ALTERNATIVE CONDITION ASSESSMENT FOR CONCRETE BRIDGE DECKS - A CASE STUDY – *Bozena Czarnecki*, Principal Specialist, Engineering Practice, EBA Engineering Consultants Ltd., Calgary; *Ward Johnston*, Project Consultant, Materials and Pavement Group, and *Darel Mesher*, Chief Technical Officer, Transportation Practice, *Ewing Kung*, Project Director, Infrastructure, EBA Engineering Consultants Ltd.; *Craig MacFarlane*, Chief Structures Engineer, City of Calgary

CONCRETE BRIDGE BARRIERS REINFORCED WITH COMBAR GFRP BARS WITH HEADED ENDS – *Stefan Lucic*, Student, *Khaled Sennah*, Professor, and *Meimei Lam*, Civil Engineering Department, Ryerson University, Toronto

DECISION ANALYSIS FOR BRIDGE REHABILITATION SELECTION – *Jim Zacaruk*, Principal, Structural Engineering, Stantec Consulting Ltd., Regina, SK

NEED, DESIGN AND CONSTRUCTION OF SEAMLESS APPROACHES TO INTEGRAL ABUTMENT BRIDGES (IAB) IN NEW BRUNSWICK – *Jared McGinn*, Research Engineer, New Brunswick Department of Transportation

WEDNESDAY, SEPTEMBER 29 (EVENING)

ANNUAL BANQUET 19:00-22:00

(Cash bars will be open from 18:00 to 19:00.)

Chair: *Hon. Bill Estabrooks*, Minister of Transportation and Infrastructure Renewal of Nova Scotia and 2010 TAC Conference Chair

During this elegant evening, delegates and companions will be treated to an exquisite dinner. The 2010 recipients of TAC's Canadian Transportation Awards – Transportation Person of the Year and awards of excellence, achievement and academic merit – will also be announced. The evening will conclude with a high-energy show.

THURSDAY, SEPTEMBER 30

MEETING TO BE HELD IN CONJUNCTION WITH TAC CONFERENCE

Council of Ministers Responsible for Transportation and Highway Safety (closed)

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