

SESSIONS, PANEL DISCUSSIONS AND WORKSHOPS

Program activities are being held at the Shaw Conference Centre and the Westin Edmonton Hotel.

LEGEND

Session Formats

SES = Session

PD = Panel Discussion

WS = Workshop

PS = Poster Session

Subject Areas

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

Monday, September 12

08:45 – 11:00

OPENING PLENARY SESSION: TRANSPORTATION SUCCESSES: LET'S BUILD ON THEM

Hall A, Assembly Level, Shaw Conference Centre

THEME

(Simultaneous interpretation in both official languages will be offered during this session. Consult the GENERAL INFORMATION section for details.)

Sponsored by GENIVAR, MMM Group Limited and Ontario Good Roads Association

Chair: *Ray Mantha*, Assistant Deputy Minister, Ontario and President of TAC

- Welcome to Alberta: *Hon. Luke Ouellette*, Minister of Alberta Transportation and 2011 TAC Conference Chair
- Welcome to Edmonton: *His Worship Stephen Mandel*, Mayor of the City of Edmonton

Presentations

- BUILDING ALBERTA'S WORLD CLASS TRANSPORTATION SYSTEM – *Hon. Luke Ouellette*, Minister of Alberta Transportation
- BUILDING THE FUTURE TRANSPORTATION SYSTEM FOR THE GREATER TORONTO AND HAMILTON AREA – *Bruce McCuaig*, President and CEO Metrolinx
- FEDERAL INFRASTRUCTURE PROGRAMS, PAST, PRESENT AND FUTURE – *John Forster*, Associate Deputy Minister, Infrastructure Canada
- BUILDING AUSTRALIAN TRANSPORT SUCCESS - THE STORY SO FAR – *Ann King*, Deputy Chief Executive of Roads and Transportation Authority (RTA) NSW Australia

14:15 – 17:00

CREATING TRANSPORTATION SUCCESS STORIES (PD)

Salon 12, Meeting Level, Shaw Conference Centre

THEME

Chair: *Shaye Ganam*, Global TV, Morning Show Co-Anchor

- Join our panel as they discuss how agency programs or policies have contributed to successful outcomes in terms of efficiencies, road safety, innovation and economic stimulus. The scope of the discussion will concentrate on the following questions: What in your opinion is (are) your agency's notable success story(ies) that was (were) born out of necessity during the recent economic downturn? and What are some of the benefits that have been realized?

Panelists

- *Hon. Bill Estabrooks*, Minister of Transportation and Infrastructure Renewal of Nova Scotia
- *Gary Boddez*, Deputy Minister, Alberta Transportation
- *Bob Boutilier*, General Manager, Transportation Services, City of Edmonton
- *Gerry Chaput*, Assistant Deputy Minister, Provincial Highways Management Division, Ministry of Transportation of Ontario
- *Sandra Lafortune*, Director General, Strategic Policy, Transport Canada

Discussion and Question-and-answer Period

SESSIONS, PANEL DISCUSSIONS AND WORKSHOPS

SUCCESSSES IN TRANSPORTATION INFRASTRUCTURE: EXPERIENCES FOR THE FUTURE (PD)

Salon 10, Meeting Level, Shaw Conference Centre

THEME

(Simultaneous interpretation in both official languages will be offered during this session. Consult the GENERAL INFORMATION section for details.)

Chair: *Jane Weldon*, Canada's First Delegate to PIARC, President of the Canadian National Committee and Director General, Surface Infrastructure Program

This panel discussion has been organized by the Canadian National Committee of the World Road Association (CNC-PIARC/AIPCR).

Panelists

Jim Burke, Executive Vice President, SNC-Lavalin, Vancouver

PERFORMANCE BASED CONTRACTS FOR MAINTENANCE OUTSOURCING – *Moh Lali*, Executive Director, Technical Standards Branch, Transportation, Alberta Transportation

FREEWAY SERVICE CENTRE REDEVELOPMENT IN ONTARIO – *Paul Lecoarer*, Director, Contract Management and Operations Branch, Ontario Ministry of Transportation

RÉPARTITION ET GESTION DES RISQUES SUR LE PROJET DE PARACHÈVEMENT DE L'AUTOROUTE 25 À MONTRÉAL (RISK SHARING AND MANAGEMENT FOR THE COMPLETION OF HIGHWAY 25 IN MONTRÉAL) – *Daniel Toutant*, President and Chief Executive Officer, Concession A25

Ann King, Deputy Chief Executive of Roads and Transportation Authority (RTA) NSW Australia

Discussion and Question-and-answer Period

POTENTIAL ECONOMIC IMPLICATIONS OF CLIMATE CHANGE (PD)

Salon 2, Meeting Level, Shaw Conference Centre

ENV

SOILS/MAT

MTN/CONST

PAVE

STRUCTURES

R&D

SUST DEV

INFO MGT

MUNICIPAL

Co-chairs: *Graham B. Gilfillan*, President, GVW Consulting Group and *Tim Smith*, Senior Pavement Engineer, Stantec Consulting Ltd.

Panelists

SMALL CLIMATE CHANGES, BIG IMPACTS: CLIMATE INFORMATION FOR INFRASTRUCTURE DECISIONS, CRITICAL THRESHOLDS – *Heather Auld*, Associate Director, Environment Canada

ECONOMIC IMPLICATIONS OF SHORELINE EROSION IN PRINCE EDWARD ISLAND – *Brian Thompson*, Director, Land and Environment, Prince Edward Island Department of Transportation and Infrastructure Renewal

THE ECONOMIC IMPACT OF CLIMATE CHANGE ON NORTHERN ROADS – *Greg Cousineau*, Senior Transportation Planner, Northwest Territories Department of Transportation

INCORPORATING CLIMATE CHANGE IN THE DESIGN, CONSTRUCTION AND REHABILITATION OF BRITISH COLUMBIA'S HIGHWAYS – *Ed Miska*, Head of Traffic, Electrical, Highway Safety and Geometric Standards, British Columbia Ministry of Transportation and Infrastructure

CLIMATE CHANGE ENGINEERING VULNERABILITY ASSESSMENT OF TRANSPORTATION INFRASTRUCTURE IN BRITISH COLUMBIA – *Dirk Nyland*, Chief Engineer, British Columbia Ministry of Transportation and Infrastructure; *Joel R. Nodelman*, President, and *Joan Y.H. Nodelman*, Nodelcorp Consulting Inc.

Discussion and Question-and-answer Period

INFLUENCING TRAVEL BEHAVIOUR (PD)

Salon 4, Meeting Level, Shaw Conference Centre

THEME

ENV

SUST DEV

INFO MGT

MUNICIPAL

EDUC/HR

Co-chairs: *Audra Jones*, Director, Sustainable Transportation, Transportation Services, City of Edmonton, and *Wanda Richardson*, Director, Regional Business Development, Hatch Mott MacDonald Ltd.

Panelists

EFFECTIVE STRATEGIES TO INFLUENCE TRAVEL BEHAVIOUR – *Geoff Noxon*, President, Noxon Associates Limited

THE WAY WE MOVE: INFLUENCING TRAVEL BEHAVIOUR IN THE CITY OF EDMONTON – *Pam Hnytka*, Social Marketing Supervisor, City of Edmonton

IMPACT OF TELECOMMUTING ON RESIDENTIAL LOCATION CHOICE IN CALGARY – *Joydip Majumder*, Graduate Student, Department of Civil Engineering, University of Calgary

Discussion and Question-and-answer Period

BRIDGES – SUCCESSSES: LET'S BUILD ON THEM (A) (SES)

Yukon Ballroom, Second Level, Westin Edmonton Hotel

STRUCTURES

Sponsored by Reinforced Earth Co. Ltd.

SESSIONS, PANEL DISCUSSIONS AND WORKSHOPS

Chair: *Ruth Eden*, Director of Structures, Design and Construction, Manitoba Infrastructure and Transportation

- 14:15 THE CITY OF RED DEER'S BRIDGE MANAGEMENT PROGRAM – *Jim Zaccaruk*, Principal, Structural Engineering, and *Trevor Baragar*, Stantec Consulting Ltd.
- 14:45 ALBERTA TRANSPORTATION EXPERIENCE WITH DEBONDED PRE-TENSIONING STRANDS IN PRECAST NU GIRDERS – *John Alexander*, Alberta Ministry of Transportation; *David Rogowsky*, Rogowsky Engineering Ltd.; *Bob Ramsay*, AECOM
- 15:15 LINK SLAB DECK JOINTS – *Jim Lukashenko*, Manager, Bridges and Structures, and *Edmund Ho*, Senior Bridge Engineer, MMM Group Limited
- 15:45 DESIGN AND CONSTRUCTION OF THE CAPILANO CLIFFWALK – *Kent LaRose*, Regional Manager, Bridges, and *Scott Loptson*, Senior Bridge Engineer, Morrison Hershfield Ltd.; *Duncan C. Wyllie*, Principal, Wyllie Norrish Rock Engineers Ltd.; *Stuart Masterson*, Senior Survey Party Chief, McElhanney Consulting Services Ltd.
- 16:15 VEHICLE CRASH TESTING ON A GFRP-REINFORCED PL-3 CONCRETE BRIDGE BARRIER – *Khaled Sennah*, Professor, Civil Engineering Department, Ryerson University; *Benjamin Juette*, Product Manager, ComBAR, Division of Glass Fiber Reinforcement, Schöck Bauteile GmbH, Germany; *André Weber*, Director, Research and Development, Schöck Bauteile GmbH, Baden-Baden, Germany; *Christian Witt*, President, Schoeck Canada Inc.
- 16:45 SUSTAINABLE UHPC BRIDGES FOR THE 22ND CENTURY – *Vic Perry*, Vice President and General Manager, Ductal, Lafarge North America Inc.

EFFECTS OF INCREASED LOADING ON PAVEMENTS (SES)

Strathcona Room, Main Level, Westin Edmonton Hotel

SOILS/MAT **PAVE**

Chair: *Ahmed Shalaby*, Professor and Head of Civil Engineering, University of Manitoba

- 14:15 IMPACTS OF INCREASED LOADING DUE TO HEAVY CONSTRUCTION TRAFFIC ON THIN PAVEMENTS – *Harry Sturm*, Senior Associate, Senior Project Manager Infrastructure Management and Pavement Engineering, *Amir Abd El Halim*, Senior Associate, Practice Leader, Infrastructure Management and Pavement Engineering, *Abid Ikram*, and *Lewis Wong*, Stantec Consulting Ltd.
- 14:45 MEPDG IMPLEMENTATION: MANITOBA EXPERIENCE – *Alauddin Ahammed*, Pavement Design Engineer, *Said Kass*, Director, Materials Engineering Branch, *Stan Hilderman*, Senior Pavement and Geotechnical Engineer, Materials Engineering Branch, and *William K. S. Tang*, Pavement Analysis Engineer, Manitoba Infrastructure and Transportation

- 15:15 WEIGH-IN-MOTION SENSORS' INSTALLATION AND CALIBRATION EFFORTS ON HIGHWAY 401 PERPETUAL PAVEMENTS, WOODSTOCK – *Shahram H. Vaziri*, Ph.D. Candidate, *Carl Haas*, Professor, Canada Research Chair, *Ralph Haas*, The Norman W. McLeod Engineering Professor and *Leo Rothenburg*, Associate Vice President International, University of Waterloo; *Joseph Ponniah*, Adjunct Professor, University of Waterloo and Senior Research Engineer, Pavement and Foundation Section, Ministry of Transportation of Ontario
- 15:45 LIFE CYCLE COST ANALYSIS OF MUNICIPAL PAVEMENTS IN SOUTHERN AND EASTERN ONTARIO – *David K. Hein*, Principal Engineer, Vice President, and *Ann Holt*, Senior Engineer, Applied Research Associates Inc.; *Sherry Sullivan*, Director, Transportation and Built Environment, Cement Association of Canada
- 16:15 CHALLENGES IN DESIGNING PAVEMENTS FOR BUS RAPID TRANSIT PROJECTS EXPERIENCE IN YORK REGION, ONTARIO – *Andrew C. Balasundaram*, Principal, *Ludomir Uzarowski*, Associate, *Michael L. J. Maher*, Principal and *Darrin Sellick*, Senior Pavement Technologist, Golder Associates Ltd.; *Mitchell Smith*, Deputy Design Manager, Delcan Corporation
- 16:45 QUANTIFYING INCREMENTAL PAVEMENT DAMAGE CAUSED BY OVERWEIGHT TRUCKS – *Diana Podborochynski*, PSI Technologies Inc.; *Curtis Berthelot*, Professor and Director of Transportation and Infrastructure Centre of Excellence, University of Saskatchewan; *Brent Marjerison*, Director, Preservation and Surfacing, *Robin Litzenberger*, Transport Compliance Branch, *Tim Kealy*, Policy and Programs Division, and *Ania Anthony*, Senior Surfacing Engineer, Saskatchewan Ministry of Highways and Infrastructure

SUCCESS STORIES IN URBAN TRANSPORTATION PLANNING PRACTICES (SES)

Salon 8, Meeting Level, Shaw Conference Centre

THEME **R&D** **ITS**
MUNICIPAL **TRAFFIC**

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

- 14:15 HOUSEHOLD TRIP PATTERNS AND TRAVEL CHARACTERISTICS IN LETHBRIDGE, ALBERTA – *Ahmed Ali*, Transportation Engineering Manager, and *Darwin Juell*, Transportation Manager, City of Lethbridge; *Shirley Lui*, Project Manager, and *Julie Winram*, Senior Vice President and General Manager, Synovate
- 14:45 TOWN OF STONY PLAIN SUSTAINABLE TRANSPORTATION PLAN – *Ryan Batty*, Transportation Engineer, Associated Engineering

SESSIONS, PANEL DISCUSSIONS AND WORKSHOPS

- 15:15 COMPREHENSIVE REGIONAL TRANSPORTATION INFRASTRUCTURE PLANNING FOR ALBERTA OIL SANDS – *Francis Wambugu*, Transportation Planning Engineer, AECOM Canada Ltd. and *Gordon Molnar*
- 15:45 TRENDS IN URBAN TRAVEL: IMPLICATIONS FOR PLANNING AND FORECASTING – *David Kriger*, Vice President, *Rhys Wolff*, Transportation Engineer, and *Donald Cleghorn*, Senior Project Manager, HDR | iTRANS; *Ahmad Subhani*, Senior Project Manager, City of Ottawa
- 16:15 CALIBRATION OF A MICRO-SIMULATION MODEL IN A LARGE URBAN NETWORK – *Manoj Dilwaria*, Principal and Technical Director, Delcan and *Timothy Oketch*, Director TIMCON Associates
- 16:45 REDEVELOPMENT OF THE METROPOLITAN EXPRESSWAY IN MONTRÉAL: EFFICIENT TRANSPORTATION PLANNING IN A DENSE AND COMPACT ENVIRONMENT – *Nicolas Bissuel-Roy*, Transportation Planning and Traffic Management, Genivar
- 14:15 INNOVATIVE INFRARED CRACK REPAIR METHOD – *Ludomir Uzarowski*, and *Vimy Henderson*, Golder Associates, Ltd.; *Mike Henderson*, Region of Waterloo; *Bob Kiesswetter*, Heat Design Equipment Inc.
- 14:45 CHARACTERIZING FIELD AND LABORATORY PERFORMANCE OF CEMENTITIOUS PARTIAL DEPTH REPAIR MATERIALS – *Haithem Soliman*, Doctoral Student, *Jean-Luc Lambert*, Graduate Student and *Ahmed Shalaby*, Professor of Civil Engineering, University of Manitoba; *Tara Liske*, Surfacing Materials Engineer, Manitoba Infrastructure and Transportation; *Said Kass*, Director of Materials Engineering Branch, Manitoba Infrastructure and Transportation; *Lester Deane*, Manager of Engineering Branch, Winnipeg Public Works Department
- 15:15 FOAM INJECTION INTO CONTAINMENT UNITS IN A HIGHWAY EMBANKMENT FOUNDATION - RESULTS OF A FULL SCALE PILOT STUDY – *Jermaine Smith*, Project Engineer, and *Chris Gräpel*, Principal Specialist, EBA, A Tetra Tech Company; *Roger Skirrow*, Director, Geotechnical and Materials, *Sabhago Oad*, Operations Engineer, and *Neal Reynolds*, Operations Manager, Alberta Transportation; *Casey Moroschan*, Chief Executive Officer, Poly Mor Canada Inc.

SUCCESS THROUGH THE USE OF GEOSYNTHETICS (SES)

Salon 9, Meeting Level, Shaw Conference Centre

SOILS/MAT

PAVE

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

- 14:15 GEOSYNTHETICS AS A COMPONENT OF SUSTAINABILITY IN PAVEMENT STRUCTURE DESIGN FOR ARTERIAL ROADWAYS – *Brian Morrison*, ISL Engineering and Land Services Ltd.
- 14:45 RECYCLED AGGREGATE AND GEOSYNTHETIC STUDY, CITY OF EDMONTON – *Hugh Donovan*, Construction Services Engineer, City of Edmonton
- 15:15 CEMENT-MODIFIED SOIL FOR LONG LASTING PAVEMENTS – *Gregory E. Halsted*, Market Manager, Pavements, Portland Cement Association
- 15:45 ESTIMATION OF RESILIENT MODULUS FOR COMPACTED UNBOUND GRANULAR MATERIALS USED AS BASE AND SUBBASE LAYERS IN CANADA – *Jean-Pascal Bilodeau*, Research Associate, *Guy Doré*, Professor, Department of Civil Engineering, Laval University
- 16:15 INFLUENCE OF MOISTURE CONTENT ON THE RESILIENT MODULUS OF BASE GRANULAR MATERIALS – *Jean-Pascal Bilodeau*, Research associate, *Guy Doré*, Professor, Department of Civil Engineering, Laval University
- 15:45 DEVELOPMENT OF THE HIGHWAY HIERARCHY FOR PRESERVATION OF PROVINCIAL HIGHWAYS IN SASKATCHEWAN – *Andrew Liu*, *Sudip Adhikari* and *Doug Hansen*, Saskatchewan Ministry of Highways and Infrastructure
- 16:15 USING A RISK BASED MODEL FOR THE PRIORITIZATION OF ROAD AND BRIDGE MAINTENANCE EXPENDITURES – *Andy Dalziel*, Principal, and *Reed Ellis*, Senior Principal, Stantec Consulting Ltd., *Gary Moore*, Director, and *Richard Andoga*, Senior Project Manager, City of Hamilton

SUCCESSES AND INNOVATIONS IN MAINTENANCE METHODS AND PRACTICES (SES)

Salon 3, Meeting Level, Shaw Conference Centre

MTN/CONST

Chair: *Larry Halayko*, Director, Contract Services, Manitoba Infrastructure and Transportation

Tuesday, September 13

09:00 – 12:00

OPPORTUNITIES FOR EFFECTIVE ABORIGINAL ENGAGEMENT (PD)

Salon 10, Meeting Level, Shaw Conference Centre

ENV

Co-chairs: *Don Snider*, Director, Environmental Management Services, Alberta Transportation, and *Cathy Hainsworth*, Manager, Environmental Assessment, Surface Infrastructure Programs, Transport Canada

SESSIONS, PANEL DISCUSSIONS AND WORKSHOPS

Panelists

ABORIGINAL CONSULTATION IN ALBERTA – *Cory Enns*, Director, Aboriginal Consultation for the Alberta Department of Aboriginal Relations

Richard Nerysoo, President, Gwich'in Tribal Council, Gwich'in Settlement Area, Northwest Territories

THE ROLE OF ABORIGINAL AFFAIRS AND NORTHERN DEVELOPMENT CANADA (FORMERLY INAC) IN PROVIDING ABORIGINAL CONSULTATION SUPPORT – *Karmen Klarenbach*, Regional Consultation Coordinator, Aboriginal Affairs and Northern Development Canada

Other panelists to be announced.

Discussion and Question-and-answer Period

CHALLENGES FACING LOW-VOLUME ROADS (SES)

Salon 3, Meeting Level, Shaw Conference Centre

SOILS/MAT **MTN/CONST** **PAVE**

Chair: *Ahmed Shalaby*, Professor of Civil Engineering, University of Manitoba

- 09:00 IMPLEMENTING A PAVEMENT MANAGEMENT SYSTEM FOR LOW VOLUME ROADS: CHALLENGES AND SUCCESSES – *Leanne Whiteley-Lagace*, Pavement Engineer, Stantec Consulting Ltd.; *Khaled Helali*, Principal, Infrastructure Management and Pavement Engineering, Stantec Consulting Ltd.; *Jason Dietz*, Eastern Federal Lands Highway Division, Pavements Team Leader, Federal Highway Administration
- 09:30 ASSESSMENT OF IMPACT OF ENERGY DEVELOPMENT PROJECTS ON LOCAL ROADS – *Paul W. Wilke*, Principal Engineer, *Michael Harrell*, Senior Engineer, Applied Research Associates, Inc.
- 10:00 PERFORMANCE MEASUREMENT FOR ROADS IN THE NORTH: AVAILABLE TOOLS AND KNOWLEDGE GAPS – *Craig Milligan*, Research Associate, Transport Information Group, and *Jeannette Montufar*, Associate Professor, Department of Civil Engineering, University of Manitoba
- 10:30 UPGRADING SURFACE TREATED ROADS TO ASPHALT CONCRETE PAVEMENTS – IS THIS A COST EFFECTIVE STRATEGY? – *Amir Abd El Halim*, Senior Associate, *Andy Dalziel*, Principal, and *Leanne Whiteley-Lagace*, Pavement Engineer, Stantec Consulting Ltd., *Gary Moore*, Director of Engineering Services, *Richard Andoga*, Senior Project Manager, City of Hamilton
- 11:00 FIELD MEASUREMENT AND FINITE ELEMENT SIMULATION OF THE IMPACTS OF REDUCED TRUCK TIRE PRESSURE ON STRAIN RESPONSE – *Qingfan Liu*, Ph.D. Candidate, *Ahmed Shalaby*, Professor of Civil Engineering, University of Manitoba

- 11:30 CASE HISTORY ON THE DESIGN, IMPLEMENTATION, AND CONCLUSIONS OF A STUDY OF HAUL ROADS ASSOCIATED WITH A WIND FARM DEVELOPMENT IN SOUTHWESTERN ONTARIO – *Robert A. Douglas*, Senior Geotechnical Engineer, *Ivana Marukic*, Pavement and Materials Engineering, and *James D. Rodger*, Principal, Golder Associates, Ltd.

EFFECTIVE METHODS FOR IDENTIFICATION OF POTENTIAL SITES FOR ROADWAY IMPROVEMENTS (A) (SES)

Salon 2, Meeting Level, Shaw Conference Centre

SAFETY

Chair: *Cam Nelson*, Manager, Transportation Calgary, Morrison Hershfield Limited

- 09:00 RISK MAPPING AND A PHYSICAL-ATTRIBUTE-BASED STAR RATING SYSTEM FOR ROAD SAFETY NETWORK SCREENING PURPOSES ON CANADIAN PRAIRIE REGION HIGHWAYS – *Jane MacAngus*, *Henry Hernandez*, *Craig Milligan*, *Thomas Baumgartner*, *Maryam Moshiri*, *Keenan Patmore*, *Jeannette Montufar*, Department of Civil Engineering, University of Manitoba; and *Leanna Belluz*, Transport Canada
- 09:30 IDENTIFYING HIGH COLLISION LOCATIONS FOR ROADWAY SEGMENTS WITHOUT TRAFFIC VOLUME INFORMATION – *Rajib K. Sahaji*, Graduate Research Assistant and *Peter Y. Park*, Assistant Professor, Department of Civil and Geological Engineering, University of Saskatchewan; *George Eguakun*, Manager, Traffic Safety Promotion Evaluation, Saskatchewan Government Insurance
- 10:00 A FRAMEWORK FOR CONDUCTING SUSTAINABLE TRANSPORTATION ASSESSMENTS FOR NEIGHBOURHOODS – *Gregory Ablett*, Transportation Engineer; *Jason Bell*, Transportation Engineer; *Sarah Rocchi*, Vice President, Opus International Consultants (Canada) Limited
- 10:30 DEVELOPMENT OF AN APPROACH FOR ASSESSING THE LEVEL OF SAFETY OF A HIGHWAY NETWORK ASSOCIATED WITH PAVEMENT FRICTION – *Amir Abd El Halim*, Senior Associate, Practice Leader, Infrastructure Management and Pavement Engineering, Stantec Consulting Ltd.; *Susan L. Tighe*, Professor and Canada Research Chair, Department of Civil and Environmental Engineering, University of Waterloo

GEOMETRIC DESIGN – CONFLICTING DEMANDS OF ACCOMMODATING ACTIVE TRANSPORTATION (SES)

Centennial Room, Main Level, Westin Edmonton Hotel

THEME

DESIGN

TRAFFIC

SAFETY

SUST DEV

MUNICIPAL

Chair: To be announced

SESSIONS, PANEL DISCUSSIONS AND WORKSHOPS

- 09:00 ACCOMMODATING PEDESTRIANS AND CYCLISTS AT A SUBURBAN FREEWAY INTERCHANGE – *Mark Roen*, Civil Engineer Transportation, AECOM
- 09:30 CYCLING IN THE CAPITAL LAURIER AVENUE SEGREGATED BICYCLE LANE PILOT PROJECT – *Michel Bisson*, Project Engineer, Transportation - Highways & Municipal Road Design, and *Meghan Whitehead*, Transportation Planning, McCormick Rankin Corporation
- 10:00 MULTI-USE TRAIL-HARD MEDICINE TO PRESCRIBE AND SWALLOW – *Chris Poirier*, Project Manager, AECOM

GIVING THE EDGE TO PEDESTRIANS (SES)

Salon 9, Meeting Level, Shaw Conference Centre

THEME	TRAFFIC	SAFETY
R&D	SUST DEV	MUNICIPAL

Chair: *Daniel Beaulieu*, Traffic and Transportation Engineer, Ville de Montréal

- 09:00 APPLYING INTERNATIONAL BEST PRACTICE: MEASURING AND IMPROVING THE PERFORMANCE OF PEDESTRIAN ENVIRONMENTS – *Ellie Gould*, Senior Consultant, TRL
- 09:30 HOW TO REGULATE TRAFFIC IN A SUSTAINABLE WORLD – *Daniel Beaulieu*, Traffic and Transportation Engineer, Ville de Montréal

Other speakers to be announced.

GOODS MOVEMENT SUCCESSES – MEETING FREIGHT CHALLENGES THROUGH EFFECTIVE PLANNING, PARTNERSHIPS AND INNOVATIONS (SES)

Alberta and Yukon Ballrooms, Second Level, Westin Edmonton Hotel

THEME	DESIGN	MTN/CONST
PAVE	TRAFFIC	SAFETY
R&D	ITS	MUNICIPAL

Chair: *Sabbir Saiyed*, Manager, Transportation System Planning, Regional Municipality of Peel

- 09:00 BEST PRACTICES IN URBAN GOODS MOVEMENT – *Donald Cleghorn*, Senior Project Manager, *Darryl Spencer*, Transportation Planner, *Rhys Wolff*, Transportation Engineer, and *David Kriger*, Vice President, HDR | iTRANS
- 09:30 MEASURING GOODS MOVEMENT TRAVEL TIME AND RELIABILITY: PROPOSED METHODOLOGY – *Cheryl Szuch*, Transportation Systems Engineer, and *Zorana McDaniel*, Transportation Systems Engineer, City of Calgary
- 10:00 GENERATING CARBON OFFSET CREDITS IN CANADA USING WEIGH-IN-MOTION – *Marlis Foth* and *Curtis Berthelot*, Department of Civil and Geological

Engineering, University of Saskatchewan; *Randy Hanson*, International Road Dynamics Inc.

- 10:30 WINDSOR BORDER INITIATIVES IMPROVING CANADA'S PREMIER LAND BORDER CROSSING – *Garfield Dales*, Manager, Project Delivery Office, Ontario Ministry of Transportation, Windsor Border Initiatives Implementation Group
- 11:00 TRAVIS MULTI-JURISDICTION OVERSIZE VEHICLE PERMITTING SYSTEM – *Imants Krumins*, Transport Engineer and *Kerry Leslie*, TRAVIS Specialist, Alberta Transportation

INNOVATIVE METHODS TO IMPROVE TRAFFIC FLOW (SES)

Salon 8, Meeting Level, Shaw Conference Centre

THEME	TRAFFIC	SAFETY	MUNICIPAL
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(Simultaneous interpretation in both official languages will be offered during this session. Consult the GENERAL INFORMATION section for details.)

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

- 09:00 ROUNDABOUT SIGNS AND MARKINGS IN THE NEXT M.U.T.C.D. FOR CANADA – *Phil Weber*, Ourston Roundabout Engineering Canada; *Fred Hanscom*, Transportation Research Corp
- 09:30 THE CITY OF CALGARY'S ROVING TOW TRUCK SERVICE – *Troy McLeod*, Manager, Traffic Division, and *Yeatland Wong*, ATMS Engineer, Traffic Division, City of Calgary
- 10:00 HALE STREET/ TRAFALGAR STREET & CN RAIL CROSSING CITY OF LONDON – *Henry Huotari*, Project Manager and Senior Principal, Delcan Corporation
- 10:30 VANCOUVER 2010 OLYMPIC AND PARALYMPIC WINTER GAMES – *Nasir Kurji*, Principal, Infra-Link Consulting Ltd.; *Ed Miska*, Chief Traffic, Electrical, Highway Safety and Geometric Standards Engineer, British Columbia Ministry of Transportation and Infrastructure
- 11:00 GESTION DE LA FLUIDITÉ DES DÉPLACEMENTS-PERSONNE ET PRIORITÉ DU TRANSPORT EN COMMUN : LA RÉUSSITE ENTRE LA SOCIÉTÉ DE TRANSPORT DE MONTRÉAL ET LA VILLE DE MONTRÉAL (MANAGING THE FLUIDITY OF URBAN MOBILITY AND PRIORITIZING PUBLIC TRANSIT: A SUCCESSFUL PARTNERSHIP BETWEEN THE MONTRÉAL TRANSIT COMMISSION AND THE CITY OF MONTRÉAL) – *Pascal Rochon*, Urban Planner, Corporate Advisor, Infrastructure and Facilities, Montréal Transit Commission; *Thomas Bissuel-Roy*, Planning Advisor, Intelligent Transportation Systems, City of Montréal
- 11:30 THE CITY OF CALGARY'S REVERSIBLE LANE CONTROL SYSTEMS – *Chris Delanoy*, Transportation Manager, ISL Engineering and Land Services Ltd.; *Travis Gaede*, Senior Transportation Engineer; and *Yeatland Wong*, Advanced Traffic Management Systems Engineer, City of Calgary

SESSIONS, PANEL DISCUSSIONS AND WORKSHOPS

14:15 – 17:00

2011 TAC ENVIRONMENTAL ACHIEVEMENT AWARD / SUSTAINABLE URBAN TRANSPORTATION AWARD NOMINATIONS (SES)

Salon 11, Meeting Level, Shaw Conference Centre

THEME

ENV

(Simultaneous interpretation in both official languages will be offered during this session. Consult the GENERAL INFORMATION section for details.)

Co-chairs: *Dean Cooper*, Principal, Transportation Planning and Traffic, Stantec Consulting Ltd. and *Scott Hanna*, Director, North America / Hatch Associate, Environment Services Group, Hatch Ltd.

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

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 reviewed the nominations received for the 2011 award and recommended a winner to TAC's Board of Directors. The award will be conferred at the Awards Luncheon on Monday, September 12. Nominees have been invited to give presentations on their respective projects at this session.

- 14:15 CITY OF KITCHENER: KING STREET MASTER PLAN – CITY CENTRE DISTRICT (THE CORPORATION OF THE CITY OF KITCHENER) – Representative of the City of Kitchener
- 14:45 MOBILITY MILTON: A MARKETING PROGRAM TO ENCOURAGE TRANSIT USE IN MILTON (CORPORATION OF THE TOWN OF MILTON) – *Tony D'Alessandro*, Coordinator, Transit, Corporation of the Town of Milton
- 15:15 ENVIRONMENTAL MANAGEMENT AND BENEFITS IN A MAJOR CAPITAL PROJECT, TESTON ROAD AND HIGHWAY 400, YORK REGION, ONTARIO, CANADA (THE REGIONAL MUNICIPALITY OF YORK) – *Arup Mukherjee*, Senior Project Manager, *Stephen Collins*, Manager, Engineering, Transportation Services, Regional Municipality of York
- 15:45 PROGRAMME DE SURVEILLANCE ENVIRONNEMENTALE POUR LE RÉAMÉNAGEMENT DE LA ROUTE 175 DANS LA RÉSERVE FAUNIQUE DES LAURENTIDES : UNE APPROCHE NOVATRICE DÉPLOYÉE SUR 143 KM (MINISTÈRE DES TRANSPORTS DU QUÉBEC (MTQ) ET ROCHE LTÉE, GROUPE-CONSEIL) (ENVIRONMENTAL MONITORING

PROGRAM FOR THE RECONSTRUCTION OF HIGHWAY 175 IN THE LAURENTIAN WILDLIFE RESERVE: AN INNOVATIVE APPROACH IMPLEMENTED OVER 143 KM)(MINISTRY OF TRANSPORT OF QUEBEC AND ROCHE LTÉE, GROUPE-CONSEIL) – *Yves Bédard*, Biologist, Ministry of Transport of Quebec; *Jacqueline Roy*, Senior Vice-President, Environment, Roche ltée, Groupe-conseil

- 16:15 OKOTOKS 32 STREET CROSSING – SHEEP RIVER REALIGNMENT (ISL ENGINEERING AND LAND SERVICES LTD.) – *Mario Prezelj*, Senior Consulting Engineer, ISL Engineering and Land Services Ltd.
- 16:45 TWINNING OF THE TRANS CANADA HIGHWAY THROUGH BANFF NATIONAL PARK (EBA, A TETRA TECH COMPANY AND MCELHANNEY CONSULTING SERVICES LTD. AND PARKS CANADA AGENCY (PCA)) – *Terry McGuire*, EBA, a Tetra Tech Company

SUCSESSES AND INNOVATIONS IN CONSTRUCTION METHODS AND PRACTICES (SES)

Salon 2, Meeting Level, Shaw Conference Centre

MTN/CONST

Chair: *Phil Hutton*, Manager, Contract Management Office, Ministry of Transportation of Ontario

- 14:15 COMPARE RISK ALLOCATION FOR DIFFERENT PROJECT DELIVERY METHODS IN CANADA – *Allan Neill*, Market Segment Leader, AECOM; *Hussein AL-Battaineh*, General Manager, SMA Consulting
- 14:45 CONSTRUCTION OF HIGH TENSION MEDIAN CABLE BARRIER ON ALBERTA HIGHWAY 2: A CASE STUDY OF COST-EFFECTIVE INNOVATION – *Masood Hassan*, Senior Transportation Engineer, *Bryan Ngo*, Project Engineer, *Gerard Kennedy*, Project Director and *Robyn McGregor*, Principal Consultant, EBA – A Tetra Tech Company; *Cory Rogers*, Construction Project Manager and *Jeff Edgington*, Construction Estimator, Alberta Highway Services Ltd.; *Mike Damberger*, Construction Manager and *Crystal Morison*, Field Support Technologist Central Region, Alberta Transportation
- 15:15 OWNER, CONSULTANT, AND CONTRACTOR COLLABORATION FOR RAPID DELIVERY OF THE MARINE DRIVE TRANSIT PRIORITY PROJECT – *Murray Johnson*, Executive Engineer, Buckland & Taylor Ltd.; *David Queen*, Manager, Bridge Engineering, Construction and Design, British Columbia Ministry of Transportation and Infrastructure
- 15:45 G37 INTERCHANGE – STAGE 1 DETOUR, INNOVATION AND INTEGRATED PROJECT DELIVERY – *Calvin McClary*, Calgary Manager, ISL Engineering and Land Services Ltd. *Andrew Boucher*, Project Manager, CH2M HILL Canada Ltd.

SESSIONS, PANEL DISCUSSIONS AND WORKSHOPS

16:15 PERFORMANCE OF PRECAST CONCRETE PAVEMENT REPAIRS ON HIGHWAY 427 – *Becca Lane*, Head, Pavements and Foundations Section; *Tom Kazmierowski*, Manager, Materials Engineering and Research Office, Ministry of Transportation of Ontario

16:45 INTERNET BIDDING ADOPTION IN LARGE TRANSPORTATION AGENCIES – FROM INNOVATION TO THE NORM – *Ward Zerbe*, Info Tech, Inc.

BRIDGES – SUCCESSES: LET’S BUILD ON THEM (PS)

Assembly Foyer, Shaw Conference Centre

STRUCTURES

WILDLIFE OVERPASSES IN BANFF NATIONAL PARK – DESIGN & CONSTRUCTION OF THE SOIL-STEEL ARCH STRUCTURES – *Phil Carroll*, Region Engineer, Armtec

LA BICHE RIVER BRIDGE INNOVATIVE RIGID FRAME DESIGN – *Michael Paulsen*, and *Bala Balakrishnan*, Associated Engineering; *John Alexander*, Alberta Transportation

RAPID NON-CONTACT TENSION FORCE MEASUREMENTS ON STAY CABLES – *Marcus Schmieder*, Principal, IE-Consulting; *Alex Taylor-Noonan*, Researcher, and *Roland Heere*, Senior Materials Engineer, Metro Testing Laboratories Ltd.

EVALUATION OF CORBEL/HANGER DETAILS AND TEMPORARY SHORING OF A PRESTRESSED/PRECAST CONCRETE BRIDGE – *Katrin Habel*, *Bob Ramsay*, *Derek Krama*, AECOM; *Shiraz Kanji*, City of Edmonton

SELF CONSOLIDATING CONCRETE – AN INNOVATIVE INFRASTRUCTURE SOLUTION – *Sherry Sullivan*, Director, Transportation and Built Environment, Cement Association of Canada

INNOVATIVE METHODS TO IMPROVE TRAFFIC FLOW (PS)

Assembly Foyer, Shaw Conference Centre

THEME

TRAFFIC

SAFETY

MUNICIPAL

GLENMORE/37 STREET INTERCHANGE – A ROUNDABOUT SUCCESS STORY – *Andrew Boucher*, Project Manager, CH2M HILL Canada Ltd.; *Calvin McClary*, Calgary Manager, ISL Engineering and Land Services Ltd.

HIGH-SPEED ROUNDABOUTS: MYTH OR REALITY? – *Stephan Kellner*, Team Manager, Transportation Planning and Traffic, Genivar

SUCCESSES IN THE PAVEMENT INDUSTRY (PS)

Assembly Foyer, Shaw Conference Centre

SOILS/MAT

PAVE

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

SUSTAINABILITY CASE STUDY REVIEW OF USING RECYCLED AGGREGATE IN ROAD STRUCTURE – *Marlis Foth*, LEED® AP, Department of Civil and Geological Engineering, University of Saskatchewan; *Rielle Haichert*, PSI Technologies Inc.; *Duane Guenther*, City of Saskatoon; *Curtis Berthelot*, Department of Civil and Geological Engineering, University of Saskatchewan

DEVELOPMENT OF A SPRING LOAD RESTRICTIONS STRATEGY USING CLIMATIC MODELING AND PAVEMENT PERFORMANCE DATA – *Amir Abd El Halim*, Senior Associate, Practice Leader Infrastructure Management and Pavement Engineering, *Andy Dalziel*, Principal, Practice Leader Infrastructure Management and Pavement Engineering, and *Harry Sturm*, Senior Associate, Senior Project Manager Infrastructure Management and Pavement Engineering, Stantec Consulting Ltd.; *Richard Andoga*, Senior Project Manager, Infrastructure Programming, Environment & Sustainable Infrastructure Division, Public Works Department, and *Hart Solomon*, Manager of Traffic Engineering and Operations, Operations and Maintenance Division Public Works, City of Hamilton

REMOTE CONTROL WEIGH STATION IMPLEMENTATION – *Randy Hanson*, Executive Vice President and Chief Operating Officer; *Ann Reinhart*, Transportation Engineer-in-Training; *Selma Yousif*, Transportation Engineer-in-Training; and *Scott McGibney*, Technical Specialist, International Road Dynamics Inc.

CITY OF SASKATOON MECHANISTIC PAVEMENT STRUCTURE MODELING – *Curtis Berthelot*, *Rielle Haichert*, *Roberto Soares*, and *Diana Podborochynski*, PSI Technologies Inc.; *Colin Prang*, Project Engineer, and *Duane Guenther*, Project Engineer, City of Saskatoon

BUILDING SUSTAINABLE PAVEMENTS: LIFE CYCLE ASSESSMENT USING A PAVEMENT SUSTAINABILITY TOOL – *Dalia Said*, Morrison Hershfield Ltd.; *Franck Portalupi*, Environment Canada; *Wayne Trusty*, and *Chris Goeman*, Athena Sustainable Materials Institute

IMPACT OF HIGH RAP CONTENT ON THE PERFORMANCE CHARACTERISTICS OF ASPHALT MIXTURES IN MANITOBA – *Elie Y. Hajj*, Research Assistant Professor, Western Regional Superpave Center; *Peter E. Sebaaly*, Director/Professor, Western Regional Superpave Center; *Luis Loria*, Ph.D. Candidate; Civil and Environmental Engineering, University of Nevada Reno; *Said Kass*, Director Materials Engineering; *Tara Liske*, Materials Surfacing Engineer, Materials Engineering Branch Manitoba, Infrastructure and Transportation

CREATING SUSTAINABLE PAVEMENTS THROUGH LEVEL OF SERVICE OPTIONS FOR ROADS – *Leanne Whiteley-Lagace*, Pavement Engineer; *Andy Dalziel*, Principal, Infrastructure Management and Pavement Engineering, Stantec Consulting

SESSIONS, PANEL DISCUSSIONS AND WORKSHOPS

Ltd.; *Richard Andoga*, Senior Project Manager – Infrastructure Programming Public Works Department, City of Hamilton; and *Gary Moore*; Director of Engineering Services Public Works Department, City of Hamilton

THE USE OF THE CRITICAL STRAIN METHOD TO DESIGN HAUL ROADS FOR ULTRA-HEAVY MINE HAUL TRUCKS – *Robert A. Douglas*, and *Andrew Coe*, Golder Associates Ltd.

STRUCTURAL AND HYDROLOGICAL DESIGN OF SUSTAINABLE PERVIOUS CONCRETE PAVEMENTS – *Robert Rodden*, Director of Technical Services and Product Development; and *Gerald Voigt*, President and CEO, American Concrete Pavement Association; *Tim Smith*, Senior Pavement Engineer, Stantec Consulting Ltd.

EVALUATION OF DARWIN-ME PAVEMENT RUTTING PREDICTION MODELS USING DATA FROM ALBERTA'S PAVEMENT MANAGEMENT SYSTEM – *Wei He*, Pavement Management Specialist, *Marta Juhasz*, Surfacing Standards Specialist; *John Crockett*, Pavement Management Engineer, and *Venkat Lakkavalli*, Surfacing Standards Engineer, Technical Standard Branch, Alberta Transportation

Wednesday, September 14

08:30 – 12:00

BUILD ON SUCCESS (WS)

Salon 3, Meeting Level, Shaw Conference Centre

THEME EDUC/HR

This workshop will focus on the challenges of managing knowledge and ensuring knowledge transfer in the current work environment. This strategy will serve in the identification of gaps, establishment of priorities; and the development of common objectives in the field of knowledge retention; management; and knowledge sharing between organizations.

GEOMETRIC DESIGN CONSIDERATIONS TO ACCOMMODATE MULTIPLE TRANSPORTATION MODES AND ACTIVE TRANSPORTATION (WS)

British Columbia Ballroom, Second Level, Westin Edmonton Hotel

THEME DESIGN

Program to be announced

PAVEMENT ASSET DESIGN AND MANAGEMENT GUIDE (WS)

Salon 2, Meeting Level, Shaw Conference Centre

SOILS/MAT PAVE

Sponsored by *Thurber Engineering Ltd.*

This workshop will introduce the new 2011 TAC Pavement Asset Design and Management Guide and offer presentations on its content.

HANDS-ON ROUNDABOUT DESIGN (WS)

Salon 4, Meeting Level, Shaw Conference Centre

THEME DESIGN TRAFFIC SAFETY

Sponsored by *Bunt & Associates Engineering Ltd.*

The workshop will include the process of Roundabout Design broken into three components. Workshop presenters will discuss their particular methodologies for completing the various components through brief presentations, then participants will be performing the design tasks hands-on.

SUCCESSES IN PARKING MANAGEMENT (WS)

Salon 9, Meeting Level, Shaw Conference Centre

THEME SUST DEV MUNICIPAL

The workshop will provide a discussion on successes in parking management and the challenges that exist in balancing the demand for parking with the other issues that impact the community.

CANADIAN CAPACITY GUIDE FOR SIGNALIZED INTERSECTIONS (WS)

Salon 11, Meeting Level, Shaw Conference Centre

PLANNING TRAFFIC ITS

The workshop will provide detailed instruction in intersection capacity analysis procedures, using a real-world example together with application of the new InterCalc software which replicates the Canadian Capacity Guide. Attendees will develop a detailed understanding of how to accurately model operations at signalized intersections, addressing key elements such as signal phasing and timing.

09:00 – 12:00

SMALL MUNICIPALITIES TOWN HALL CHALLENGE (PD)

Salon 10, Meeting Level, Shaw Conference Centre

MUNICIPAL

Chair: *Ken Becking*, Manager of Community Infrastructure, Morrison Hershfield Limited

TAC's Small Municipalities Town Hall Challenge is the first step in providing members of TAC's Task Force with the opportunity to meet and discuss relevant issues to this demographic.

SESSIONS, PANEL DISCUSSIONS AND WORKSHOPS

It is important that TAC members from small municipalities connect and network with other members to:

1. **Collaborate** on establishing goals and priorities;
2. **Participate** in open and creative discussions on important issues;
3. **Broaden** their networking base by providing opportunities to **reach out** to TAC's membership;
4. **Communicate** and share their ideas; and
5. **Connect** with other members.

We need your help to establish goals and priorities and to take part in a spirited discussion resulting in a collaborative effort to deal with important issues.

Panelists

ASSET SUSTAINABILITY – A MODEL THAT WORKS – *Joe Tierney*, Executive Director, Ontario Good Roads Association

DOWNTOWN REVITALIZATION PLANS “A HIGHWAY RUNS THROUGH IT” – *Michael Skene*, President, Boulevard Transportation Group

FIRST ROUNDABOUT – CHILLIWACK EXPERIENCE – *Rod Sanderson*, Manager of Transportation & Drainage, City of Chilliwack

LED STREETLIGHT CONVERSION PROGRAM – *David Ferguson*, Manager, Traffic, Parking and Bylaws Operations, City of Welland

Discussion and Question-and-answer Period

EFFECTIVE METHODS FOR IDENTIFICATION OF POTENTIAL SITES FOR ROADWAY IMPROVEMENTS (B) (SES)

Alberta and Yukon Ballrooms, Second Level, Westin Edmonton Hotel

SAFETY

Chair: *Cam Nelson*, Manager, Transportation Calgary, Morrison Hershfield Limited

09:00 COMBINED RANKING METHOD FOR SCREENING COLLISION MONITORING LOCATIONS ALONG ALBERTA HIGHWAYS – *Robert Duckworth*, Infrastructure Management System Specialist, Planning Branch; *Muhammad Imran*, Traffic Safety Engineer, Technical Standards Branch; and *Jack Chan*, Highway Planning Engineer, Planning Branch, Alberta Transportation

09:30 GEOTAS: AN APPLICATION OF SPATIAL ANALYSIS FOR TRAFFIC SAFETY IMPROVEMENTS ON PROVINCIAL HIGHWAYS IN SASKATCHEWAN – *Brandt Denham*, Head, GeoTAIS Project and Data Analysis; *George Eguakun*, Manager; *Kwei Quaye*, Assistant Vice President, Traffic Safety Services, Saskatchewan Government Insurance

10:00 HOW CONSTRUCTIVE PUBLIC CONSULTATION CAN LEAD TO A SUCCESSFUL PROJECT: THE IOCO ROAD CORRIDOR SAFETY IMPROVEMENTS STUDY – *Borg Chan*, Senior Transportation Engineer, ISL Engineering and Land Services Ltd.; and *Jeff Moi*, Transportation Engineer, City of Port Moody

10:30 SELECTING COMMUNITIES FOR PILOTING THE NEW REDUCED SPEED LIMIT ON RESIDENTIAL ROADS IN THE CITY OF EDMONTON – *Stevanus Adrianto Tjandra*, Senior Traffic Safety Analytical Coordinator; and *Gerry Shimko*, Executive Director, Office Traffic Safety, City of Edmonton

INNOVATIVE DEVELOPMENTS IN SUSTAINABLE PAVEMENTS (SES)

Salon 12, Meeting Level, Shaw Conference Centre

ENV

SOILS/MAT

PAVE

Chair: *Sherry Sullivan*, Director, Transportation and Built Environment, Cement Association of Canada

09:00 EVOLUTION AND LEGACY OF PAVEMENT MANAGEMENT IN CANADA: A CGRA/RTAC/TAC SUCCESS STORY – *Ralph Haas*, The Norman W. McLeod Engineering Professor, Distinguished Professor Emeritus, University of Waterloo

09:30 A CASE STUDY ON SUSTAINABILITY THROUGH THE APPLICATION OF THE PRINCIPLES OF PAVEMENT MANAGEMENT – *Gary St. Michel*, Principal Specialist, Pavement Engineering Practice, and *Mo Mofrad*, Project Engineer, EBA Engineering Consultants Ltd.; *Tyler Bowie*, Project Manager, City of Abbotsford

10:00 THE TWO PERCENT SOLUTION – *Al Cepas*, Pavement Management Engineer, and *Steve Aguiar*, General Supervisor, Infrastructure, Transportation Services Department, City of Edmonton

10:30 QUANTIFICATION OF RECYCLED CONCRETE AGGREGATE (RCA) PROPERTIES FOR USAGE IN BRIDGES AND PAVEMENTS: AN ONTARIO CASE STUDY – *L. Butler*, Ph.D. Candidate, *J.S. West*, Associate Professor, and *Susan L. Tighe*, Norman W. McLeod Chair in Sustainable Pavement Engineering, Department of Civil and Environmental Engineering, University of Waterloo

11:00 COMPARATIVE LIFE CYCLE COST ANALYSES OF ASPHALT PAVEMENTS TREATED WITH ANTI-STRIPPING ADDITIVES – *Peter E. Sebaaly*, Professor, Director of Western Regional Superpave Center, and *Elie Y. Hajj*, Research Assistant Professor, Western Regional Superpave Center, Department of Civil & Environmental Engineering, University of Nevada

SUCCESSES IN INTEGRATING SUSTAINABLE TRANSPORTATION AND LAND USE (SES)

Salon 8, Meeting Level, Shaw Conference Centre

THEME

ENV

SUST DEV

MUNICIPAL

SESSIONS, PANEL DISCUSSIONS AND WORKSHOPS

(Simultaneous interpretation in both official languages will be offered during this session. Consult the GENERAL INFORMATION section for details.)

Co-chairs: *Ted Gill*, Senior Project Manager, and *Roxane MacInnis*, Project Planner, MMM Group Limited

- 09:00 ONTARIO'S 2011 TRANSIT-SUPPORTIVE GUIDELINES – INTEGRATING LAND USE, TRANSIT AND ACTIVE TRANSPORTATION – *Jeannie Lee*, Senior Policy Advisor, Transit Policy Branch, and *Robin Kortright*, Senior Policy Advisor, Transportation Planning Branch, Ontario Ministry of Transportation
- 09:30 DOWNTOWN OTTAWA TRANSIT TUNNEL (DOTT) PLANNING AND ENVIRONMENTAL ASSESSMENT (EA) STUDY: STRENGTHENING TRANSIT AND LAND USE INTEGRATION IN THE NATIONAL CAPITAL – *Paul Croft*, Senior Transportation Planner, Delcan Corporation
- 10:00 LE RÉAMÉNAGEMENT DE L'ÉCHANGEUR HENRI-BOURASSA / PIE-IX À MONTRÉAL : UN PROJET D'INGÉNIERIE URBAINE POUR UNE MOBILITÉ DURABLE (REDEVELOPMENT OF THE HENRI-BOURASSA / PIE-IX INTERCHANGE IN MONTRÉAL: URBAN ENGINEERING FOR SUSTAINABLE MOBILITY) – *Laurent Guignard*, Engineer, Ville de Montréal
- 10:30 BURNABY MOUNTAIN GONDOLA TRANSIT PROJECT – *Ian Fisher*, Senior Transportation Planner, TransLink; *Robert Rollin*, Senior Project Manager, CH2M HILL
- 11:00 HURONTARIO/MAIN STREET CORRIDOR MASTER PLAN MISSISSAUGA AND BRAMPTON BUILDING A NEW AND INTEGRATED VISION FOR THE CORRIDOR – *Martin Powell*, Commissioner of Transportation and Works, City of Mississauga
- 11:30 CITY SHAPING LIGHT RAIL TRANSIT: THE HAMILTON, ONTARIO PROJECT AND LESSONS FOR OTHER NORTH AMERICAN CITIES – *Jillian Stephen*, Director, Rapid Transit, *Justin Readman*, Manager, Rapid Transit, and *Christine Lee-Morrison*, Manager, Nodes and Corridor Planning, City of Hamilton; *Ashley Curtis*, Associate, Steer Davies Gleave

14:15 – 17:00

ACTIVE TRANSPORTATION: BUILDING ON OUR SUCCESS (PD)

Salon 10, Meeting Level, Shaw Conference Centre

THEME

DESIGN

ENV

SAFETY

SUST DEV

MUNICIPAL

Sponsored by CH2M HILL Canada Limited

Co-chairs: *Brian Hollingworth*, Director, IBI Group, and *Danielle Wensauer*, Senior Environmental Officer, Pacific Region, Transport Canada

Panelists

Loy Cheah, Director, Infrastructure Planning, York Region

Sue Hallat, Regional Planner, Capital Regional District

Dr. Lawrence Frank, Urban Design 4 Health

Karly Coleman, Chair, Trails, Paths and Routes Advisory Committee, City of Edmonton

Discussion and Question-and-answer Period

APPLICATION OF INNOVATION TO IMPROVE ROADWAY SAFETY (SES)

Salon 8, Meeting Level, Shaw Conference Centre

SAFETY

(Simultaneous interpretation in both official languages will be offered during this session. Consult the GENERAL INFORMATION section for details.)

Chair: *Bill Kenny*, Director, Project Management and Training, Alberta Transportation

14:15 APPLICATION DES ROUTES 2+1 AU QUÉBEC (APPLICATION OF 2+1 ROUTES IN QUEBEC) – *Marina Fressancourt*, Geographer, *Sébastien Labonté*, Geographer, CIMA+

14:45 ACCOMMODATING COMMERCIAL AND OVER-DIMENSIONAL VEHICLES AT ROUNDABOUTS – *Phil Weber*, Ourston Roundabout Engineering Canada, (A Member of The Sernas Group Inc.)

15:15 EVALUATION OF SAFETY AND OPERATIONAL PERFORMANCE OF HIGH TENSION MEDIAN CABLE BARRIER ON DEERFOOT TRAIL, CALGARY, ALBERTA – *Tony Churchill*, Transportation Engineer, *Upal Barua*, Transportation Engineer, and *Masood Hassan*, Senior Transportation Engineer, EBA, A Tetra Tech Company; *Muhammad Imran*, Traffic Safety Engineer, Technical Standards Branch, and *Bill Kenny*, Director, Design, Project Management and Training, Technical Standards Branch, Alberta Transportation

15:45 ALBERTA TRAFFIC SAFETY PLAN AND COMMUNITY MOBILIZATION STRATEGY – *Jeanette Espie*, Executive Director, Office of Traffic Safety, and *Ross Danyluk*, Director, Community Mobilization, Alberta Transportation

16:15 METHODS OF REDUCING COLLISIONS ON ALBERTA ROADS – *Sarah Rocchi*, and *Jesse Arseneault*, Opus International Consultants; *Richard Chow*, and *Bill Kenny*, Alberta Transportation and Infrastructure; *Raheem Dilgir*, Corporation of Delta

BRIDGES – SUCCESSES: LET'S BUILD ON THEM (B) (SES)

Salon 12, Meeting Level, Shaw Conference Centre

STRUCTURES

SESSIONS, PANEL DISCUSSIONS AND WORKSHOPS

Sponsored by Reinforced Earth Co. Ltd.

Chair: *Brian Wood*, Manager Transportation, Stantec Consulting Ltd.

- 14:15 INNOVATIVE STRUCTURAL AND GEOTECHNICAL STRATEGIES: CROSSING UNSTABLE RIVER VALLEYS IN NORTHERN ALBERTA – *Neil Robson*, Principal; and *Gamal Ghoneim*, Associate, DIALOG™; *Don Proudfoot*, Principal, Thurber Engineering Ltd.; *Donald Saunders*, Bridge Manager, Alberta Transportation; *Darcy Taylor*, Manager, Transportation Infrastructure, ARA Consulting Engineering Ltd.
- 14:45 CABLE-STAYED BRIDGE AS AN ALTERNATIVE FOR MEDIUM AND SHORT SPAN BRIDGES – *Azita Azarnejad*; *Ken McWhinnie*, CH2M HILL; *Gamil Tadros*, Speco Engineering; *Jiri Strasky*, Jiri Strasky Consulting Engineer
- 15:15 INNOVATIVE REHABILITATION GIVES NEW LIFE TO A 100 YEAR-OLD STREET TRUSS BRIDGE – *K.Lima*, Associate and *J. DiBattista*, Principal, DIALOG; *S.Kanji*, Bridge Engineer, The City of Edmonton
- 15:45 CONSTRUCTABILITY AND CHALLENGES OF THE SLIMS AND DUKE BRIDGES PROJECT – *Mekdam Nima*, Manager, Bridges, AECOM; *Kian Mirza*, *Asnee Pochanart* and *Amin Abdullah*
- 16:15 DUNDAS STREET CROSSING OF SIXTEEN MILE CREEK A FIELD SPLICED, POST-TENSIONED PRECAST CONCRETE GIRDER BRIDGE – *Matthew Bowser*, *Scott Leitch* and *Bob Stofko*, McCormick Rankin Corporation
- 16:45 UNIQUE BRIDGE DESIGNS FOR FOUR HIGHWAY INTERCHANGES IN BC – *David Harvey*, Senior Bridge Specialist, Associated Engineering

GEOMETRIC DESIGN CONSIDERATIONS TO ACCOMMODATE OTHER TRANSPORTATION MODES (SES)

Salon 3, Meeting Level, Shaw Conference Centre

THEME DESIGN

Chair: To be announced

- 14:15 CITY OF WINNIPEG – SOUTHWEST RAPID TRANSIT CORRIDOR TUNNEL – *Jeffrey N. Crang*, Transportation Engineer, *Dave Krahn*, *Kevin Willis* and *Tracey Kucheravy*, Dillon Consulting Limited
- 14:45 OVERSIZE/OVERWEIGHT VEHICLES: AN INVESTIGATION INTO THE SAFETY AND SPACE REQUIREMENTS FOR ALTERNATIVE ENERGY PROJECTS – *Daniel Shihundu*, Vice President - Product Management, Transoft Solutions Inc; *Dr. John Morrall*, President, Canadian Highways Institute Limited
- 15:15 INNOVATIVE INFRASTRUCTURE DESIGNS TO ACCOMMODATE HIGH-LOADS AND OVER-DIMENSIONAL LOADS THROUGH THE FORT MCMURRAY AREA – *Ferhan Bhanji*, Project Manager, Transportation; *Wayne*

Tomlinson, Manager, Major Projects Transportation, AECOM

- 15:45 GEOMETRIC DESIGN OF ROADWAY INTERSECTIONS – ROUNDABOUTS AS AN INTEGRAL PART OF A TRAFFIC NETWORK – *Speaker to be announced*

HOW TO ENCOURAGE THE SAFE COEXISTENCE OF DIFFERENT MODES OF TRANSPORTATION (SES)

Salon 11, Meeting Level, Shaw Conference Centre

THEME TRAFFIC SAFETY MUNICIPAL

(Simultaneous interpretation in both official languages will be offered during this session. Consult the GENERAL INFORMATION section for details.)

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

- 14:15 SHEDDING EXCESS WIDTH: ESTABLISHING CRITERIA FOR THE SUITABILITY OF CANDIDATE ROAD DIET PROJECTS – *Sarah Rocchi* and *Jennifer Craik*, Opus International Consultants
- 14:45 DESIGN AND IMPLEMENTATION OF DIAGONAL CROSSWALKS IN QUEBEC – *Simon Trépanier*, Engineer, Ministry of Transport of Quebec
- 15:15 PROVISION FOR ALL – ADAPTIVE SIGNAL CONTROL FOR CITIES WHERE MODAL DEMANDS ARE CHANGING – THE LONDON CASE STUDY – *Gavin Jackman*, Program Director – Traffic and Software; *Mike Hutt*, Software Manager, TRL
- 15:45 DEVELOPING A CYCLING FACILITY SELECTION TOOL: SOME OBSERVATIONS – *James J. Copeland*, *Greg L. Chisholm*, McCormick Rankin Corporation; *John B. L. Robinson*, Flood Murray International
- 16:15 MODÉRATION DE LA CIRCULATION DOS D'ÂNE ALLONGÉS ET COUSSINS (TRAFFIC CALMING SPEED HUMPS AND SPEED CUSHION) – *Catherine Berthod*, Engineer and Urban Planner, Ministry of Transport of Quebec
- 16:45 SAFER CITY PROGRAM – CHILLIWACK – *Roderick Sanderson*, Manager of Transportation & Drainage, City of Chilliwack

SUCCESSFUL MITIGATION OF FROST HEAVE (SES)

Alberta and Yukon Ballrooms, Second Level, Westin Edmonton Hotel

THEME ENV SOILS/MAT MTN/CONST

PAVE R&D SUST DEV

Sponsored by *Thurber Engineering Ltd.*

Chair: *Danielle Fleury*, Chief, Geotechnical and Geological Services, Ministry of Transport of Quebec

SESSIONS, PANEL DISCUSSIONS AND WORKSHOPS

- 14:15 FROST HEAVES: A PROBLEM THAT CONTINUES TO SWELL – *Lori Schaus*, Project Engineer; and *Mark Popik*, Senior Engineer, Applied Research Associates Inc.
- 14:45 EDMONTON EXPERIENCE WITH BOTTOM ASH AND OTHER INSULATING MATERIALS FOR MITIGATION OF FROST HEAVE INDUCED DAMAGE IN PAVEMENTS – *David A. Field*, *Tony Ruban*, *Art Johnston*, *Daryl Nixon* and *Don Lewycky*, City of Edmonton Engineering
- 15:15 CASE STUDY ON THE PERFORMANCE OF HIGH LOAD POLYSTYRENE AS ROADWAY INSULATION IN EDMONTON, ALBERTA – *Christina Tatarniuk*, Research Engineer; *Don Lewycky*, Director of Engineering Services, City of Edmonton, Engineering Services
- 15:45 MESURING AND PREDICTING SOIL TEMPERATURE AND MOISTURE CONTENT BENEATH NOVA SCOTIA'S HIGHWAYS: A REPORT AND PRELIMINARY RESULTS FROM A RECENTLY INSTALLED NETWORK – *Benoit Pouliot*, Senior Meteorologist, *Paul Delannoy*, Senior Associate, *Olga Kidson*, Program Administration Officer, *Phil Woodhams*, Senior Consultant, *Shawn Allan*, Unit Manager, AMEC
- 16:15 LABORATORY CHARACTERIZATION OF SHREDDED TIRES AS SUBSTRUCTURE ROAD DRAINAGE LAYER MATERIAL – *Ganiu Abdul Rahman*; *Curtis Berthelot*, Director of Transportation and Infrastructure Centre of Excellence, Department of Civil and Geological Engineering, University of Saskatchewan, *Duane Guenther* and *Shane Olsen* Shercom Industries; *Theresa McQuoid*, Saskatchewan Scrap Tire Corporation