

Concurrent Sessions I: Wednesday August 4, Morning

Room	Theme	9:20-9:40		9:40-10:00	10:00-10:20
A	Accelerated Bridge Construction	<i>Rosignoli (004)</i> Incremental Launching Construction of Urban Bridges	Room for binding in middle of booklet	<i>Krutzler & Ojala (340)</i> Sgt. Aubrey Cosens V.C. Memorial Bridge Reconstruction	<i>Barbas & Carter (332)</i> Design of the Major River Crossing Bridges on the A30
B	Inspection, Evaluation & Rehabilitation: Steel Bridge Rehabilitation	<i>Wong (244)</i> Evaluation of Corroded Pin and Hanger Connections with Refined Analysis		<i>Waheed, Alexander & Ramsay (245)</i> North Saskatchewan River Bridge at Heinsburg – Constraint-induced Fracture Repairs	<i>De Pauw & Van Bogaert (198)</i> Integrated Steel Flyovers for Railway in Extension of a Historic Multiple-arch Concrete Viaduct
C	Innovative Design & Construction: Cable Stayed Bridges	<i>Marzahn & Löckmann (050)</i> Spanning the Rhine River with a New Cable-stayed Bridge		<i>Azarnejad, McWhinnie, Tadros & Strasky (240)</i> Elbow River Cable-stayed Bridge, Design & Construction	<i>Schaper, Kennedy, Harvey & Soleimani (274)</i> Pitt River Cable-stayed Bridge
D	Research and Development: Arch Bridges	<i>Outtier, De Backer, Schotte, Stael, Van Bogaert (309)</i> Calculation Methods for Buckling Behaviour of Arch Bridges		<i>Schmidt Rosado (275)</i> Study of Cracks in a Reinforced Concrete Arched Bridge	<i>Esmaeili & Abdulrazagh (280)</i> Pseudo-static Evaluation of Earthquake Effects in Soil Steel Bridges
E	Innovative Design & Construction	<i>Watson (249)</i> An Update on Disk Bearing Performance on Short & Medium Span Bridges		<i>Krisciunas, Gratton, Weiss & Scalzo (095)</i> Renaissance of Wood Bridges in Ontario	
F	Innovative Design & Construction: Concrete-filled Tubes	<i>Zakaib, Sadeghian & Fam (086)</i> Bridge Supports Composed of Concrete-filled FRP Tubes Subjected to Combined Bending & Shear		<i>Kim, Kim, Song, Chung & Shim (209)</i> Bridge Model Tests on Segmental CFT Girders with Precast Decks	

Concurrent Sessions II: Wednesday August 4, Late Morning

Room	Theme	10:50-11:10	11:10-11:30	11:30-11:50	11:50-12:10
A	Accelerated Bridge Construction	<i>Fam & Nelson (087)</i> Corrugated FRP Stay-in-Place Structural Forms for Concrete Bridge Decks	<i>Shim, Chung & Kim (036)</i> Experiments on Prefabricated Circular Bridge Piers	<i>Sengupta (344)</i> Large-scale Prefabrication in Construction of 9.5 km Elevated Expressway at Bangalore, India	<i>Dewar (203)</i> Fiberglass Composite Modular Bridges for Accelerated Bridge Construction
B	Inspection, Evaluation & Rehabilitation: Inspection	<i>Baragar & Zaccaruk (352)</i> Bridge Inspection Reliability in Western Canada	<i>Gagné (232)</i> Prince Edward Viaduct Bridge Inspection – Logistical Challenges	<i>Simbeya & Scalzo (137)</i> Highway Bridge and Culvert Inspections: Experience with Large-Scale Assignments	<i>Leshko (027)</i> Specialized Access Methods for Fracture Critical Alaska Bridge Inspections
C	Innovative Design & Construction: Seismic Design	<i>Fouché & Bruneau (318)</i> Non-linear Analysis of Multi-hazard Performance of Concrete-filled Steel Tube Bridge Piers	<i>Sideris, Anagostopoulou, Aref & Filiatrault (359)</i> Investigation of Seismic Performance of Precast Segmental Bridges	<i>Naimi & Galal (304)</i> 3-D Seismic Analysis of Bridge Including Soil-Structure Interaction to Near-fault Earthquakes	<i>Samaan (303)</i> Seismic Analysis of Bridges in Various Codes
D	Research & Development: Concrete Creep, Shrinkage and Cracking	<i>Bittermann & Cramer (064)</i> Early-age Concrete Cracking in Composite Bridges due to Cement Hydration and Climatic Conditions	<i>Orta & Bartlett (172)</i> Effect of Water-proof Membranes on Restrained Shrinkage of Bridge Deck Overlays	<i>Hossain, Ahmed & Amin (255)</i> Influence of Creep and Shrinkage in Widened Prestressed Concrete Box-girder Bridges	<i>Soliman & Nehdi (083)</i> Shrinkage Mitigation Methods on Early-Age Shrinkage of UHPC under Simulated Field Conditions
E	Inspection, Evaluation & Rehabilitation: Steel Structures	<i>Lai, Coomarasamy & Ramamurthy (111)</i> Durability of Ontario Weathering Steel Bridges and Development of New Chemical Compositions	<i>Barth & Righman McConnell (361)</i> Assessment of Weathering Steel Bridges in West Virginia	<i>Mah and Medhekar (226)</i> Galvanizing Defect Eludes Multiple Quality Control Processes	<i>Seradj (121)</i> Weldability of ASTM A1010 Steel
F	Innovative Design & Construction: Prestressed Concrete	<i>De Pauw & Van Bogaert (197)</i> Behaviour of a Concrete Bridge with Lateral Girders in Z-shape	<i>Moussa (040)</i> A Hybrid Prestressed Concrete Bridge over the Nile	<i>McNutt & Newhook (234)</i> Adaptive Prestressing of Concrete Beams	

Concurrent Sessions III: Wednesday August 4, Early Afternoon

Room	Theme	13:40-14:00	14:00-14:20	14:20-14:40	14:40-15:00
A	Accelerated Bridge Construction: Case Studies	<i>Sivakumar & Price (151)</i> Implementing Accelerated Bridge Construction in the U.S.: Impediments and Innovations	<i>Shim, Lam, Ho, Wong & Li (157)</i> Rapid Bridge Replacement Project at Highway 403/Aberdeen Avenue Bridge in Hamilton, Canada	<i>Mahan & Shahinpar (219)</i> Load Out, Marine Transportation & Lift Installation of Urmia Lake Arch Bridge	<i>Nenaydykh & Braverman (279)</i> South 29 th Street Bridge over Union Pacific Railroad, Milwaukee, Wisconsin
B	Pedestrian Bridges:	<i>Knight & Stuetzel (313)</i> The Challenges of Footbridges over Railways: Variations within One Project	<i>Dvorak (311)</i> Aesthetic Components of Footbridges Designed and Built for the City of Calgary	<i>Wörner, Eckhardt & Stahl (325)</i> Structural Transparency: Unique Pedestrian Bridge for Darmstadt Castle	<i>Anderson, Guter & Judnic (100)</i> Construction of the Bagley St. Pedestrian Bridge, Detroit, Michigan
C	Management of Bridge Assets:	<i>Kanneganti, Willoughby & Bhide (041)</i> Bridge Information Modeling (BrIM) to Increase Productivity in the Bridge Lifecycle	<i>Harvey, Browne & Owens (057)</i> Developing a Business Process Model for Bridge Management in Europe	<i>Shaffer & Gula (113)</i> Integrated Bridge Inspection and Management System for the State of West Virginia	<i>Shahriar & Nehdi (208)</i> Optimal Bridge Management Planning using System Approach
D	Research & Development: Structural Safety	<i>King, Agarwal, Lam & Tharmabala (011)</i> Wind Loads for the Canadian Highway Bridge Design Code	<i>Hong, Hu & King (297)</i> Calibration of Wind Load Factors for Canadian Bridge Design Code	<i>Hasan, Tharmabala & Ahmed (103)</i> Evaluation of Elastic Seismic Response Coefficient given New Canadian Seismic Hazard Map	<i>Jung, Kim, Yi & Kim (210)</i> Safety of Connection System for Prestressed Concrete Hybrid Bridge Girder with Steel Truss Members
E	Advanced Materials in Bridges: FRP - Research	<i>Nikopour & Nehdi (080)</i> Shear Repair using Epoxy Injection and External CFRP	<i>Ahmed & Benmokrane (166)</i> Design of Concrete Deck Slabs Reinforced with GFRP Bars According to the CHBDC	<i>El-Tahan, Hoa & Galal (140)</i> Mechanical Characteristics of New Thermoplastic CFRP Rebars	<i>Weber & Witt (222)</i> New Safety Approach for the Durability of Advanced Composites in Concrete
F	Innovative Design & Construction: Foundations	<i>Ahmed & Cheng (062)</i> Design of Long-Span Concrete Box Culverts under High Embankments	<i>Jahns, Davis & Loh (200)</i> Design & Construction of Pile-founded Bridge on Saturated Peat	<i>Hebor, Wargo & Bintrim (077)</i> Supporting a Bridge over a Tunnel: North Shore Connector Underpins SR 65	<i>Sakr (142)</i> High Capacity Helical Piles – A New Dimension for Bridge Foundations

Concurrent Sessions IV: Wednesday August 4, Late Afternoon

Room	Theme	15:30-15:50	15:50-16:10	16:10-16:30	16:30-16:50
A	Accelerated Bridge Construction: Case Studies	<i>Bowser, Singh & Gunnlaugson (053)</i> Lateral Launch of Mount Hunter Creek Bridge	<i>Rajlic, Murray, Dykstra & Krisciunas (105)</i> Eagle River Superstructure Replacement	<i>Rosignoli (030)</i> Modena Viaducts for High Speed Railway in Italy	<i>Vachon & Islam (138)</i> Rapid Replacement of Bridges on Highway 417
B	Pedestrian Bridges:	<i>Stein (101)</i> Curved Pedestrian Bridge – Straightforward Design	<i>Birkle & Stein (312)</i> Design of Stress Ribbon Bridges in Fish Creek Park	<i>Nie, Stofko & Leitch (141)</i> Design of Red Hill Creek Pedestrian Bridge	<i>Nenaydykh, Sloutsky & Braverman (278)</i> Brady Street Pedestrian Bridge
C	Innovative Design & Rehabilitation: Seismic Design and Rehabilitation	<i>El-Bahey & Bruneau (323)</i> Investigation of Bridge Piers having Structural Fuses & Bi-steel Piers	<i>Lee & Ou (316)</i> Seismic Behavior and Design of Precast Segmental Concrete Bridge Columns	<i>McIntyre, Ahmadi & Gérin (290)</i> Rehabilitation and Seismic Retrofit of two '60s Overpasses in Vancouver	<i>Billah, Alam & Bhuiyan (124)</i> Seismic Response of a Medium Span Bridge fitted with Different Isolation Devices
D	Inspection, Evaluation & Rehabilitation: Structural Steel	<i>Shawkat & Kenedi (038)</i> Evaluation and Strengthening of Gusset Plates in Steel Truss Bridges in Southwestern Ontario	<i>Mailhot (054)</i> Ultimate Strength of Hybrid Steel Bridge Compression Member Reinforced under Load	<i>Baxter (285)</i> Heat Straightening of Structural Steel Girders	
E	Advanced Materials in Bridges: FRP - Research	<i>Ahmed & Benmokrane (164)</i> Will CHBDC Design Limits for FRP Stirrups Affect Shear Strength?	<i>Andermatt & Lubell (260)</i> Behaviour of Concrete Deep Beams with Internal GFRP Reinforcement	<i>Saiedi, Fam & Green (281)</i> CFRP-Prestressed Girders Subjected to Bending Fatigue at Low Temperature	<i>Alves, El-Ragaby & El-Salakawy (284)</i> Bond of GFRP Bars to Concrete for Different Loading & Environmental Conditions
F	Advanced Materials in Bridges: Concrete, FRP	<i>Madhavi & Baskar (093)</i> Damage Assessment for Rehabilitation in Skew Bridges	<i>Pilon (108)</i> Shear Rehabilitation of Thick Slab Bridges	<i>Nikopour, Nehdi & Broomand (079)</i> Investigation of Hybrid FRP Bonded-RC Beams under Quasi-Static Shear Loading	<i>Zangeneh, Omran & El-Hacha (072)</i> FE Modelling of Composite Girders Strengthened with SFRP Sheets

Concurrent Sessions V: Thursday August 5, Morning

Room	Theme	9:00-9:20	9:20-9:40	9:40-10:00	10:00-10:20
A	Inspection, Evaluation & Rehabilitation: Rehabilitation Case Studies	<i>Simpson & Saha</i> (213) Strengthening Ledge Supports of Northwest Miramichi Bridge No. 2	<i>Mermigas</i> (218) Crediton River Bridge: Evaluation and Rehab of a Failed Dapped Beam on Corbel Hinge	<i>Brasic & Kim</i> (221) Rehabilitation of Leaside Bridge, Toronto	<i>Habel, Ramsay, Kramar & Bohnert</i> (238) Structural Rehabilitation of an NU Precast Girder Bridge
B	Bridge Aesthetics	<i>McIntyre</i> (123) Accounting for Taste: Design-build and Bridge Aesthetics	<i>Anderson & McCall</i> (236) Thoughts on Bridge Aesthetics as a Feature of Sustainability	<i>Rothwell</i> (321) Bridges for the Active User: Cyclists, Pedestrians & Students	<i>Fu & Ahmed</i> (116) Aesthetic and Design Considerations for Integral Piers & Jointless Steel Bridges
C	Innovative Design & Construction: Seismic Design	<i>Velev, Lemay & Légeron</i> (099) Seismic Design of the St.-Charles Overpass using Seismic Isolation Techniques	<i>Hassan & Michaud</i> (187) Seismic Design of Petite Nation Bridge	<i>Ajrab, Montminy & Delph</i> (120) Heron Road Bridge Rehabilitation: An Innovative Approach	<i>Gérin & Wong</i> (287) Comparison of Substructure Systems for Seismic Design of Highway Bridges
D	Advanced Materials in Bridges: Ultra High Performance Concrete	<i>Jones & Roberts</i> (031) Extending Service Life of Decks and Eliminating Carbon Footprints with Internal Curing	<i>van der Veen & de Boer</i> (047) Ten Years of Monitoring a HPC Bridge	<i>Almansour & Lounis</i> (237) Simplified Flexural Design of Ultra High Performance Concrete Bridge Girders	<i>Ghoneim, Carson & Perry</i> (346) Ultra High Performance Fiber Reinforced Concrete in Footbridges
E	Inspection, Evaluation & Rehabilitation FRP Repair	<i>Kasan & Harries</i> (042) Repair of Prestressed Concrete Adjacent Box Girders	<i>Stafford & Sanchez</i> (065) Applications of Externally Bonded FRPs on Canadian Bridges and Structures	<i>Suffern, El-Sayed & Soudki</i> (262) Feasibility of CFRP Repair for Beams with Corroded Stirrups	<i>Omran & El-Hacha</i> (073) FE Modelling of RC Beams Strengthened with Prestressed NSM CSRP Rebars
F	Research & Development: Dynamic Analysis	<i>Cheung, Shen & Chan</i> (019) Integrated Finite Strip Solution for Spatial Vibration Analysis of Multi-span Bridges	<i>Alwash, Wegner & Sparling</i> (256) Use of Impact Excitation to Measure Modal Parameters of Highway Bridges	<i>Mahan & Karoumi</i> (214) Dynamic Response of a Tied Arch Bridge in Different Loading and Operating Conditions	<i>Akbari & Maalek</i> (067) Seismic Vulnerability Assessment of Irregular RC Single-column Bent Viaducts

Concurrent Sessions VI: Thursday August 5, Late Morning

Room	Theme	10:50-11:10	11:10-11:30	11:30-11:50	11:50-12:10
A	Inspection, Evaluation & Rehabilitation:	<i>Garrity (075)</i>	<i>Dixon, Skelton & Cap (147)</i>	<i>Demirdjian & Césaré (156)</i>	<i>Li, Lee & Cholewa (175)</i>
	Rehabilitation Case Studies	Rehabilitation of Short Span Masonry Arch Highway Bridges using Near-Surface Reinforcement	The Queenston-Lewiston International Bridge Fifth Lane Project	The Chemin Du Vide Underpass Rehabilitation	Integrating of Substructures for Economy and Constructability in a Bridge Widening Project
B	Bridge Aesthetics	<i>Krisciunas, Radolli & Dykstra (098)</i> “The Magic of Sioux Narrows” – New Life for an Old Timber Bridge	<i>Anderson, Delph, Montminy & Ajrab (177)</i> The Creation of a New Bridge at a UNESCO World Heritage Site	<i>Hedden & Quagliata (186)</i> Bridge to the Future: The Farm Lane Underpass Project	<i>LeBlanc (224)</i> Design & Construction of a Wildlife Crossing Bridge
C	Innovative Design & Construction:	<i>Fairclough (037)</i>	<i>Vincent (307)</i>	<i>De Backer, Outtier, De Pauw, Van Bogaert (308)</i>	<i>Newhook & Ford (299)</i>
	Steel Bridges	Design of the John E. LaRue Memorial Bridge	New Orthotropic Steel Bridge Deck for Multiple Girder Bridges	Temperature Monitoring on Steel Box Girders	Development of a New Stiffening Rib for Aluminum Box Structures
D	Accelerated Bridge Construction:	<i>Zingaro, Lam & Tharmabala (301)</i>	<i>Evans (110)</i>	<i>Husain & Theodor (291)</i>	<i>Evans & Ellis (154)</i>
	Management	Standard Designs and Plans for Accelerated Bridge Construction	Accelerated Bridge Construction in Rural Prince Edward Island	Structure Types and Selection Process for Short & Medium Span Bridges	Development of a Comprehensive Bridge Inspection and Management Program
E	Advanced Materials in Bridges:	<i>Salib & Romagnoli (043)</i>	<i>Hillman (061)</i>	<i>Dykstra, Krisciunas, Scalzo & Simbeya (096)</i>	<i>Riley, Lankinen & Soudki (196)</i>
	Fibre Reinforced Polymers	Proposed Rehabilitation of Two Historic Bridges Using FRPs	Hybrid-Composite Beams Bridge the High Road	Unique Gluing to Bond Prefabricated Deck Panels	FRP Retrofit for a Concrete Bridge in Central Ontario
F	Innovative Design & Construction:	<i>Milhaljevic, Patel & Torontali (084)</i>	<i>Albazi, Lai, Yu & Lam (133)</i>	<i>Pucchio, Murphy, Blevins, Grabowski & Lucas (170)</i>	<i>Bevc (296)</i>
	Expansion Joints	Expansion Joints, the Ontario Experience	Replacement of QEW Burlington Bay Skyway Modular Expansion Joints	Eliminating Multiple Transverse Joints on a Multi-Span Precast Concrete Girder Bridge	Lessons Learned to Achieve Longer Service Life of Expansion Joints

Concurrent Sessions VII: Thursday August 5, Early Afternoon

Room	Theme	13:40-14:00	14:00-14:20	14:20-14:40	14:40-15:00
A	Inspection, Evaluation and Rehabilitation Case Studies	<i>Carlin & Mailhot (112)</i> Re-decking Mercer Bridge: Structure for Social, Economic & Technical Needs	<i>Garrity (074)</i> Rehabilitation of a Victorian Clay Brick Railway Viaduct	<i>Wilczyński (048)</i> The Strengthening of Short Span Bridges	
B	Advanced Materials in Bridges: FRP Research	<i>Agarwal & Mufti (025)</i> Local Stress Concentration in FRP Reinforcing Bars due to Concrete Cracks	<i>Liu, Majumdar, Cousins & Lesko (034)</i> Testing FRP Deck Systems for Rapid Replacement of Tangier Island Bridges	<i>Zaidi, Masmoudi & Bouhicha (039)</i> FE Analysis of Thermal Deformations in Concrete Surrounding FRP Bars at Low Temperatures	<i>Chen & El-Hacha (071)</i> Flexural Behaviour of Hybrid FRP-UHPC Girders under Static Loading
C	Innovative Design & Construction: Case Studies	<i>Gao, Tanagho & Chan (341)</i> Coast Meridian Overpass: from Concept to Reality	<i>Ojala, Ramsingh & Watson (339)</i> Engineering & Construction of W-S Ramp, Churchill Roosevelt Hwy, Trinidad	<i>Ali (253)</i> New Athabaska River Bridge Design and Launching Features	<i>Al-Hashimy, Loewen & Eric (199)</i> Innovative Design & Construction Case Studies from Malaysia and Canada
D	Engineering History	<i>Rothwell (322)</i> The Bridge Painters: Coincident Revolutions in Art and Bridge Construction	<i>Lehan & Ellis (277)</i> Spanning Time in Niagara: The History of the Burgoyne Bridge	<i>Haalstra, Bagnariol & Kenedi (282)</i> Evaluation of Bridges using Ontario Heritage Bridge Guidelines	<i>Mizzen, King & Bartlett (045)</i> Wind Loading on Historic Covered Bridges
E	Railway Bridges	<i>Maxwell (046)</i> Railway Bridges in New South Wales, Australia	<i>Vičan, Odrobiňák, Gocál & Hlinka (150)</i> Diagnostics and Load-carrying Capacity Estimation of Existing Railway Bridges	<i>Van Bogaert (181)</i> Design & Construction of Double-curved Railway Overpass and 3-Track Tubular Arch	<i>Godat, Trépanier, Tajeuna, Légeron, Labossière & Neale (264)</i> Portable Railway Bridge Concept
F	Innovative Design & Construction: Integral and Semi-Integral Abutments	<i>Ibrahim, Sennah & Samaan (310)</i> Structural Design Issues for Integral Abutment Bridges	<i>Wurzer & Jedelhauser (217)</i> Bernau Freeway Bridge – A Semi-integral Structure with Unconventional Foundations	<i>Yoon, Ahn & Kim (295)</i> Experimental Evaluation of Abutment-Pile Connection in Integral Bridge	<i>VanGeest, Ellis, Struger-Kalkman & DiPaola (242)</i> Dynamic Approach Slab

Concurrent Sessions VIII: Thursday August 5, Late Afternoon

Room	Theme	15:30-15:50	15:50-16:10	16:10-16:30	16:30-16:50
A	Innovative Design & Construction: Case Studies	<i>Towell, Low, Burkitt & Theryo (233)</i> Design & Construction of the Stewarts River and Camden Haven River Bridges	<i>Yun & Sherlock (215)</i> Design of Two Steel Frame Bridges with Inclined Legs over the French River	<i>Lee, Lo & Li (195)</i> Design & Construction of the Simcoe Street Tunnel under 16 Live Rail Tracks, Toronto	<i>Zaki & Settouf (115)</i> Design & Construction of Segmental Bridge in Algerian East-West Corridor Project
B	Inspection, Evaluation & Rehabilitation: Prestressed Concrete	<i>Fu, Pan & Ahmed (114)</i> Analysis & Testing of Transversely Post-Tensioned Multi-beam Slab Bridges	<i>Ibrahim & Salim (171)</i> Assessment of Prestressed Concrete Girder Bridges under Blast Loads	<i>Goel & Prakash (326)</i> Performance of Prestressed Concrete Bridge Designed for Indian Code Fatigue Loading	
C	Advanced Materials in Bridges: Concrete Reinforcement	<i>Shoaib, Lubell & Bindiganavile (261)</i> Shear Size Effect in Steel Fibre Reinforced Concrete Members without Stirrups	<i>Agarwal, Mufti, Bakht & Tadros (024)</i> Fatigue Assessment of Internally or Externally Restrained Concrete Deck Slabs	<i>Pianca (006)</i> Achieving Longer-lasting Environmentally Friendly Reinforcement	<i>Bergmann & Schnell (022)</i> Use of Advanced Materials to Extend Bridge Life and Reduce Initial Cost
D	Inspection, Evaluation & Rehabilitation: Steel Bridge Fatigue	<i>Brasic, Zivkovic & Vukotic (223)</i> Fatigue Retrofit of Steel Box Girder Bridges	<i>Ghahremani & Walbridge (193)</i> Predicting the Effect of Peening Treatments Applied under Load on Fatigue Performance	<i>Rameshni, MacDougall & Green (153)</i> Hybrid Steel/FRP Field Splices for Expansion Joints	<i>El-Aghoury & Galal (134)</i> Numerical Tool for Fatigue Life Prediction of Corroded Steel Bridge Elements
E	Research and Development: Barriers	<i>Lai & Raven (076)</i> Performance of Epoxy-coated Reinforcement in Barriers Subjected to Direct Salt Splashing	<i>Benmokrane, Ahmed, Dulude & El-Gamal (163)</i> Testing Full-scale Bridge Barriers Reinforced with GFRP Bars	<i>Holmes, Jiang & Ngan (227)</i> Summary of Development of TAC Guide to Bridge Traffic & Combination Barriers	<i>Sennah, Tropynina, Goremykin, Lam & Lucic (251)</i> Concrete Bridge Barriers Reinforced with GFRP Bars with Headed Ends
F	Inspection, Evaluation & Rehabilitation: Load Testing	<i>Huh, Lam & Tharmabala (056)</i> Assessing Removal of Intermediate Diaphragms on Skewed Slab-on-Girder Bridge by Load Testing	<i>Au, Lam & Tharmabala (058)</i> Validating Design Methodology for Debonded Concrete Link Slab System by Load Testing	<i>Bujňák, Vičan & Odrobiňák (148)</i> Proof Load Test and FEM Model as Tools for Verification of Bridge Behaviour	<i>Au, Lam & Tharmabala (176)</i> Evaluating Strength of Fire-Damaged Bridge by Load Testing

Concurrent Sessions IX: Friday August 6, Morning

Room	Theme	9:00-9:20	9:20-9:40	9:40-10:00	10:00-10:20
A	Innovative Design & Construction:	<i>Turk (152)</i> Structures in Motorway Cuts: Specifics of Design & Construction	<i>Hasan, Xu & Merlo (104)</i> CANBAS: A Signature Bridge Design Tool of MTO	<i>Balakrishnan (118)</i> Heavy Haul Roadway Bridges – Design & Construction	<i>Briseghella, Fenu, Lan, Mazzarolo, Siviero & Zordan (293)</i> Shape Optimization of an Arch Bridge by the Evolutionary Procedure
B	Advanced Materials in Bridges: FRP Case Studies	<i>Lau, Biswanger & Eden (097)</i> Concrete Deck Slab Reinforced with GFRP Bars – 18 th Street Bridges	<i>Evans (109)</i> Use of ACMs in Bridge Construction & Repairs in a Small, Rural Province	<i>Lee, Craig, Loh & Dimitrovski (165)</i> Maintenance-Free Bridge using GFRP Reinforcing Bars	<i>Latour (357)</i> Bridge Construction Projects Across Canada Using FRP Composite Reinforcement
C	Innovative Design & Construction: Curved Bridges	<i>Chavel & Peterman (216)</i> Design & Construction of Curved & Skewed East-West Connector Bridge over I-88	<i>Theodor (179)</i> Design & Construction of Tightly Curved Steel Plate Girder Bridge	<i>Khalafalla & Sennah (247)</i> Curvature Limitations for Braced Concrete Slab over Steel I-girder Bridges	<i>Salib & Ibrahim (008)</i> Highly Skewed P-T Bridge Deck with Variable Width & Curved Girders
D	Inspection, Evaluation & Rehabilitation: Structural Health Monitoring	<i>Limaye, MacDonnell, MacLeod & McGinn (185)</i> SHM in Rehabilitation of Princess Margaret Bridge in Fredericton	<i>MacLeod, Wegner & Sparling (241)</i> Monitoring the Behaviour of a Century-old Through Truss Bridge	<i>Cristian-Claudiu & Georghita (180)</i> Structural Health Monitoring System for Bridges	<i>Inaudi, Cordeau & Figini (146)</i> Integrated SHM Systems for Short and Medium Span Bridges
E	Research & Development: Concrete Materials	<i>Menoufy, Soudki & El Sayed (254)</i> Adhesive Anchors under Various Sustained Load Levels	<i>Attanayake & Aktan (273)</i> Precast Component Joint Durability, Grout Properties and Material Specifications	<i>Rogowsky & Alexander (305)</i> Creep Redistribution of Moments & Stresses in Concrete Bridges	<i>Jayakumar, Bhandari & Upadhyay (283)</i> Long-term Deformation of a HPPC Bridge using Experimental Data
F	Research & Development: Load & Resistance Models	<i>Eckfeldt, Reischl & Curbach (228)</i> Test Evidence on the Statistical Distribution of Strength within RC Members	<i>Agarwal, Lam & Au (026)</i> Impact of Regulatory Lift-axle Reforms in Ontario on Bridge Design Truck Model	<i>Garcia Soto, Martinez & Hong (161)</i> Basis for Truck Load Model for Bridge Design in Mexico	<i>Azimi, Galal & Pekau (268)</i> Modified 2-D Element for Vehicle-Bridge Interaction for Vehicles with Constant Velocity

Concurrent Sessions X: Friday August 6, Late Morning

Room	Theme	10:50-11:10	11:10-11:30	11:30-11:50	11:50-12:10
A	Inspection, Evaluation & Rehabilitation: Steel Bridges	<i>O'Donoghue, Datta, Walker, Wiseman Roberts & Repman (333)</i> Innovative Coating Systems for Steel Bridges	<i>Besuyen, Baskin, Finlayson & Raine (327)</i> Cooperative Paint Testing Program	<i>Furst, Huh & Bailey (338)</i> Rehabilitation, Evaluation & Load Testing of the Frederick House River Bridge	<i>Wang, Chan, Thambiratnam & Tan (143)</i> Damage Detection in Truss Bridges using Correlation-based Modal Strain Energy
B	Pedestrian Bridges	<i>Hillman & Burke (085)</i> 35 th Street Pedestrian Bridge over Lakeshore Drive	<i>Kriviak (088)</i> Fort Edmonton Footbridge over the North Saskatchewan River	<i>Nenaydykh, Sloutsky & Braverman (276)</i> The Marsupial Post-tensioned Concrete Pedestrian Bridge	
C	Inspection, Evaluation & Rehabilitation: Corrosion	<i>Hasan (102)</i> A Simple Deterioration Model for Bridge Health Forecasting	<i>Klosowski-Blatz & Goodwin (329)</i> Concrete Cracks, Corrosion and Correction	<i>Mohammed, Almansour & Martín-Pérez (168)</i> Modelling Bridge Columns under Traffic & Reinforcement Corrosion	<i>Ali, Jefremczuk & Mirza (005)</i> Chloride Ingress & Steel Rebar Corrosion in Cracked Reinforced Concrete Bridge Decks
D	Research & Development: Analysis	<i>Mergel & Almansour (106)</i> Live Load Distribution on a Rigid Frame Concrete Bridge	<i>Harris (201)</i> Stiffened Plate Approach for Lateral Load Distribution in Short & Medium Span Bridges	<i>Théoret & Massicotte (355)</i> Revisiting the CSA-S6 Simplified Method of Analysis for Solid Slab Bridges	
E	Innovative Design & Construction: Composite Construction	<i>Hanna, Morcoux & Tadros (016)</i> Columbus Viaduct on US Hwy 30 in Platte County Nebraska	<i>Au, Lam & Tharmabala (091)</i> Development of Bolted Deck Slab System to Expedite Bridge Construction	<i>Papastergiou & Lebet (330)</i> New Steel-Concrete Connection for Composite Bridges	<i>Huh, Lam & Tharmabala (055)</i> Effect of Shear Stud Clusters in Composite Girder Design
F	Research & Development: Fatigue and Fatigue Repair	<i>Hong, Goda, Lam & Au (298)</i> Assessment of Fatigue Reliability of Steel Girder Bridges	<i>Coughlin & Walbridge (192)</i> Fatigue Correction Factors and Design S-N Curves for Welded Aluminum Highway Bridges	<i>Huawen, König, Ummenhofer & Shizhong (066)</i> Fracture Analysis of Cracked Steel Plates Strengthened with CFRP Laminates	<i>El Din, Galal & Tirca (135)</i> Applications of FRP in Retrofitting Existing Steel Girders in Flexural Behaviour