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www.bridgeconference2006.com

7TH INTERNATIONAL

CONFERENCE ON

SHORT & MEDIUM SPAN

BRIDGES 2006

AUGUST 23-25, 2006

Le Centre Sheraton Montréal Hotel

Montréal, Québec, Canada

MAIN SPONSOR

INVITATION AND

**PRELIMINARY
PROGRAM**

ORGANIZED BY

CONFERENCE PARTNERS

PLATINUM

SILVER

INVITATION AND

PRELIMINARY
PROGRAM

Since 1982 the Short & Medium Span Bridges Conference has been held every four years in Canada. The purpose has been to provide a worldwide state-of-the-art forum on short and medium span bridges. Engineers, practitioners and researchers from around the world will find at the Montreal conference a unique opportunity to gather and discuss examples of current and future practice and research that will cover highway and railway bridges.

DATE AND PLACE

The Conference will be held in August 23-25, 2006, at Le Centre Sheraton, Montréal, Canada.

Port is also the starting point for trips along the turbulent Lachine Rapids, at the western end of the island!

**Pulsate to the rhythm
of the city**

Downtown abounds with department stores, boutiques and cinemas, not to mention major museums, such as the Montréal Museum of Fine Arts, the Musée d'art contemporain, the McCord Museum of Canadian History and the Canadian Centre for Architecture.

Objective: Recreation!

Île Notre-Dame and Île Sainte-Hélène are synonymous with vacationing fun. At Parc Jean-

Montréal the metropolis has everything a big city can offer. But Montréal is also one-of-a-kind, a multicultural city that blends its French accent with that of over 80 other ethnic communities and charms visitors with its Euro-American ambiance. Montréal is also innovative and invigorating, offering a whirlwind of cultural creations, both traditional and modern. Its downtown bustles with life at the foot of its mountain, while history is rooted in the old quarters near the river. With its year-round party atmosphere, Montréal beats to the rhythm of its festivals: jazz, comedy, cinema, fireworks and more! The city beckons you to discover its fashionable boutiques and famed cuisine, over 30 km (18 mi.) of indoor pedestrian walkways, and its lively casino.

Explore the old city

Riding in a horse-drawn carriage around the 18th and 19th-century residences of Old Montréal, you will discover the imposing neo-gothic Notre-Dame Basilica, as well as museums that recount the past, such as the Pointe-à-Callière museum and the Centre d'his-

toire de Montréal. The Old Port invites you to relax all year round. Among its attractions, you will find the Montréal Science Centre, a vast complex dedicated to scientific culture that also includes an IMAX theatre. The Old

Drapeau, you'll have a ball at Québec's largest amusement park, La Ronde, and at the beach. At the Biosphère, in the former U.S. pavilion from

Expo 67, you'll discover the secrets of water, while at the Stewart Museum, located inside an authentic fort, you'll learn about the history of the New World. In the east end of the city, in the Hochelaga-Maisonneuve neighbourhood, you will find irresistible attractions, such as the Olympic Park, host to the 1976 Olympic Games, which boasts the tallest inclined tower in the world. On the same site, you can also visit the Biodôme, a magical place that is home to four ecosystems. Nearby, the Montréal Botanical Garden, one of the world's largest, introduces you to a host of horticultural universes, including a Chinese garden and a Japanese garden, and at the Insectarium you can observe up close insects from around the world!

For more touristic information, visit [Tourism Montréal](http://Tourism Montreal) or Tourisme Québec at www.tourisme-montreal.org and www.bonjourquebec.com.

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SCIENTIFIC PROGRAM

The Scientific program will consist of Key-Note Lectures and Technical sessions. Key-Note Lectures will be presented by invited speakers.

THEMES

1 Innovative Design

When function, economy and aesthetics are combined, bridges can become important symbols for the communities involved. Engineers and architects can create the most inventive bridge design concepts. Projects that demonstrate innovative design and systems for highway, railway and footbridges pertain to this topic.

2 New Construction

Modern bridge structures have a wide diversity of construction methods. The inherent economy, durability, environmental impact and aesthetic ensure continued use and development of construction technology.

3 Seismic Design

Recent severe earthquakes have provided invaluable lessons towards the un-

9 Repair, Maintenance and Evaluation

Bridges are essential elements in a roadway/railway network, and therefore central to transportation asset management. Presentations dealing with inventory methods data, inspections and performance assessment for evaluation, repair and maintenance strategies will be made.

10 Historic Bridges

The bridge has always been a feature of human progress and evolution. The development has been marked by long periods of gradual improvement, punctuated by decisive innovations, such as the development of a new material or technique.

11 Aesthetics

All too often the aesthetics of bridges are treated as an afterthought, if at all. The public is becoming more and more concerned about aesthetics, and the harmony with the surrounding environment.

derstanding of the behavior of bridge structures under earthquake loading. Major code changes have had a dramatic influence on the analysis and design earthquake-resistant bridges throughout the world.

4 Management of Bridge Asset

Bridge Management Systems (BMS) are decision-support tools developed to assist bridge authorities in determining how and when to make bridge investments that will improve safety and preserve existing infrastructure.

5 Rehabilitation and Retrofitting

In the face of ageing and deterioration of bridges, authorities are relying on bridge rehabilitation and retrofitting to extend service life. Increasing activity has brought about greater knowledge of deterioration mechanisms, and innovative rehabilitation and retrofit techniques.

6 Analysis

Bridge structural analysis consists essentially of mathematical modeling of the response of a structure to the applied loads. The possibility to discuss advancements in structural modeling and use of soft computer techniques are offered here.

7 Advanced Materials in Bridges

New breeds of advanced materials developed in the last few years are making headway into bridge structures. Structural components for hybrid construction such as FRP reinforced elements, cable and tendon systems have been successfully used in highway, railway and footbridges.

8 Instrumentation, Testing and Monitoring

In spite of their relatively simple structural systems, bridges suffer heavily from the effects of age, climate and especially traffic that often exceeds codified limits. The measurement and documentation will permit evaluation of the changing condition of a bridge over its lifetime.

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PRELIMINARY PROGRAM

TIME	TUESDAY, AUGUST 22, 2006	DAY 1 WEDNESDAY AUGUST 23, 2006	DAY 2 THURSDAY AUGUST 24, 2006	DAY 3 FRIDAY AUGUST 25, 2006
07:30				
08:00				
08:30				
09:00		Plenary Session	Plenary Session	Plenary Session
09:30				
10:00		Coffee-Break	Coffee-Break	Coffee-Break
10:30				
11:00		Session 1	Session 4	Session 7

11:30			
12:10			
12:30		Lunch	Lunch
13:00			
13:30			
14:00		Session 2	Session 5
14:30	Registration		Technical Tour
15:00			
15:30		Coffee-Break	Coffee-Break
16:00			
16:30		Session 3	Session 6
17:00			
17:40			
18:00			Cocktail
18:30	Opening Welcome Reception		
19:00			
19:30			
20:00		Social Event and Dinner	
20:30			Evening Banquet
21:00			
21:30			
22:00			

SOCIAL PROGRAM

1. Opening Welcome Reception

August 22, 2006 (6:00 PM)

The Opening Welcome Reception will provide an ideal opportunity for convention delegates to meet and familiarize with the conference premises, in a casual and laid back atmosphere.

2. Supper tour on board the Cavalier Maxim

August 23, 2006 (evening)

A supper tour on board the Cavalier Maxim with its windowed panoramic rooms will offer unexcelled views of the city.

The tour, on the Saint Lawrence River, will cover a distance of 25 history- and attraction-filled kilometers such as the Old Port, Nun’s Island, the Boucherville Islands, and more. A guide will accompany the guests and offer a commentary on the different facets and attractions of Montreal.

A choice of two fixed, four-course menus will be offered along with two complimentary beverages. The occasion offers a unique opportunity to experience fine dining in a special ambiance where the décor changes as the tour progresses. The supper is served inside and guests are welcome to visit the deck when they wish.

Depart: 7:00 PM (we leave the hotel no later than 6:00 PM)

Return: 11:00 PM

3. Banquet

August 24, 2006 (evening)

To give you a sense of the Montreal spirit, the banquet and the evening will provide animation, a pleasant meal, an opportunity to meet new colleagues and fun guaranteed. In other words, an outstanding occasion for friendly

business networking.

4. Technical tour

August 25, 2006 (afternoon)

A tour of the different bridges of Montreal Island will take place as a closing activity for the 2006 Conference on Short and Medium Span Bridges. This technical tour will allow participants an opportunity for on-site appreciation of selected transportation infrastructure.

ACTIVITIES FOR ACCOMPANYING PERSONS

1. Tour of Montreal

August 23, 2006 (morning)

A coach tour of a variety of Montreal sites including: downtown Montréal, Notre-Dame and Nun's Island, the site of the 1967 Montreal World Fair, the Gilles-Villeneuve race course (used for the Canadian Grand Prix), the Montreal Casino, the Old Fort, built in the XVIIIth century to protect Montreal, the University of Montreal, McGill University, the financial district, Saint-Joseph Oratory, the Latin Quarter, etc. The coach will stop at Notre-Dame Basilica and at Mount Royal Park. Guests will also be invited to experience a Montreal classic for lunch.

2. Visit to the Botanical Gardens and the Olympic Park

August 23, 2006 (afternoon)

This tour will visit several of Montreal's other attractions: the Montreal Botanical Gardens (ranked second in the world), the Insectarium, and the Olympic Stadium (constructed for the 1976 Olympic Summer Games) and including the funicular climb up the highest inclined tower in the world.

3. Guided walking tour of Old Montreal including a visit to the Pointe-à-Callière Montreal Museum of Archaeology and History

August 24, 2006 (morning)

This guided walking tour offers guests the opportunity to observe: the Old Port of Montreal and its restaurants; City Hall; the markets and public buildings; the original financial district; historic homes; churches; Place Jacques Cartier; the Pointe-à-Callière Montreal Museum of Archaeology and History; etc.

Note: The walking tour will take place in all weather conditions. Please wear comfortable walking shoes and bring appropriate clothing in case of rain. Transportation to the Old Port of Montreal and return will be by metro (subway).

Dinner

The tour will end with dinner in a restaurant in the Old Port of Montreal area known for its seafood and steaks.

*The description of guest activities is for guidance and is subject to change without notice.

PARTNERSHIP

The International Conference on Short and Medium Span Bridges will offer a varied and high quality technical, social, and cultural program to satisfy the needs of both conference-goers and sponsor organizations.

Four partnership options are available to meet your needs for visibility and the degree of involvement and participation you wish in the success of the conference.

are expected. During this event about thirty exhibit booths for products and services related to short and medium span bridges will be accessible near the conference room.

ACCOMMODATIONS

The Conference Hotel is Le Centre Sheraton Montreal Hotel, conveniently located downtown Montreal, make your reservation soon.

Blocks of rooms at a special group rate of \$205 CAN/night (single or double occupancy) have been set aside for attendees and their accompanying guests. The deadline to take advantage of this rate reduction is July 21, 2006.

The simplest way to reserve is through the Web site at www.bridgeconference2006.com under "Accommodation" in the "Registration" unfolding menu.

Reservations can also be made by phone at (514) 878-2000 or by fax at (514) 878-3958. Please make sure to specify that you are attending the 7th International Conference on Short & Medium Span Bridges.

EXHIBITS

The International Conference on Short & Medium Span Bridges will feature more than 250 technical presentations in three days. More than 400 congressmen

ORGANIZING COMMITTEE

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PHOTO CREDITS

Page 1: Jacques Cartier Bridge

Page 2: 1 Champlain Bridge, Montréal (The Federal Bridge Corporation Limited) 2 Nautical activities in front of the Casino de Montréal, © Parc Jean-Drapeau, Bernard Brault 3 Terrasse on Place Jacques-Cartier in Old Montréal, © Tourisme Montréal, Stéphan Poulin 4 Montréal as seen from parc Jean-Drapeau, © Tourisme Montréal

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Page 5: 1 Victoria Bridge in Montréal (The Federal Bridge Corporation Limited) 2 Jardin botanique de Montréal, © Tourisme Montréal 3 Olympic Stadium tower at Parc olympique, © Régie des installations olympiques

Page 6: Québec Bridge, (Ministère des Transports du Québec)

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CO-SPONSORS

Montréal, Québec, Canada
August 23-25, 2006

SPONSORED BY THE CANADIAN SOCIETY FOR CIVIL ENGINEERING

REGISTRATION

(See General Conditions of Registration)

PLEASE PRINT OR TYPE:

Name:

PROF. DR. MRS. MR. M. FIRST NAME

LAST NAME

Organization:

Mailing Address:

STREET & CITY

PROVINCE / STATE

COUNTRY

POSTAL / ZIP CODE

Telephone:

Fax:

E-mail:

Accompanying Person

(if registered):

FIRST NAME

LAST NAME

Registration Fees

¹ (Accepted abstract presenters must register by June 1st, 2006).

	Before June 1 st , 2006	After June 1 st , 2006	In Canadian Funds
CSCE Member ²	\$675.00	\$775.00	\$
CSCE Non-Member ^{2/3}	\$750.00	\$850.00	\$
Student ⁴	\$100.00	\$100.00	\$
			Total:\$

Optional Tours Program

¹

	Date	Cost	Number of Participants	In Canadian Funds
Social activity & Dinner	August 23	\$140.00	x	\$
Technical Tour & Dinner	August 25	\$90.00	x	\$

¹ Applicable taxes are included (GST: 10759 9276 RT0038 / QST: 1006467420).

² Registration includes:

- Admission to all Technical sessions
- Proceedings on CD-Rom
- Conference lunches on August 23 and 24, 2006
- Coffee breaks
- Welcome reception on August 22 and formal banquet on August 24, 2006.

³ Prices include CSCE Membership fees from May 1 " to December 31 " , 2006.

⁴ Student Registration includes admission to all Technical sessions and proceedings on CD-Rom.

⁵ A two-days program with luncheon included during the days of August 23 and 24, 2006.

⁶ A copy of your bank transfer form with your name on it MUST be submitted with your registration form. Bank charges are at Registrant's expense.

PRELIMINARY PROGRAM

AUGUST 23-25, 2006

Le Centre Sheraton Montréal Hotel
Montréal, Québec, Canada

WEDNESDAY, AUGUST 23RD, 2006

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WEDNESDAY, AUGUST 23RD, 2006

8:30 - 10:00 OPENING SESSION
KEYNOTE LECTURES

Ballroom

8:30 - 9:15

**THEART OF RAILWAY BRIDGE
ENGINEERING -TODAY**

Robert A.P. Sweeney

Consultant to Modjeski & Masters

Canada

9:15 - 10:00

**BRIDGE MANAGEMENT INTHE PROVINCE
OF QUEBEC:NOWANDTOMORROW**

Guy Richard

Ministère desTransports du Québec

Canada

10:20 - 12:00	<p>THEME 1: INNOVATIVE DESIGN</p> <p>Room A</p>	10:20 - 12:00	<p>THEME 6: ANALYSIS</p> <p>Room B</p>
10:20 - 10:40	<p>DESIGN OF THE CANADA LINE EXTRADOSED TRANSIT BRIDGE</p> <p>Don W. Bergman, Andrew Griezic and Christopher R. Scollard</p> <p>Buckland & Taylor Ltd.</p> <p>Canada</p>	10:20 - 10:40	<p>PEDESTRIAN COMFORT OF COLUMBUS MAIN STREET BRIDGE UNDER VIBRATIONS INDUCED BY HEAVY VEHICLES</p> <p>Stoyan Stoyanoff, David D. Byers, and Steve Hague</p> <p>Rowan Williams Davies & Irwin Inc.</p> <p>Canada</p>
10:40 - 11:00	<p>REPLACEMENT OF A DOUBLE TRACK RAILWAY CARRYING SWING SPAN OVER THE RICHELIEU RIVER</p> <p>George Nowak</p> <p>Canadian National</p> <p>Canada</p>	10:40 - 11:00	<p>WIND LOADS ON PEDESTRIAN BRIDGES</p> <p>J. Peter C. King, U.-Y. Jeong, L. Z. Kong</p> <p>University of Western Ontario</p> <p>Canada</p>
11:00 - 11:20	<p>LESSONS LEARNED DURING THE DESIGN AND CONSTRUCTION OF THE NORTH SASKATCHEWAN RIVER BRIDGE IN EDMONTON, AB.</p> <p>C. P. Rebel and David John Middleton</p> <p>CH2M HILL</p> <p>Canada</p>	11:00 - 11:20	<p>ADVANCED ANALYSIS AND TECHNICAL INNOVATIONS OF LIGHTWEIGHT PEDESTRIAN BRIDGES</p> <p>Stanislav Kmet and Jan Kanocz</p> <p>Technical University of Kosice</p> <p>Slovakia</p>
11:20 - 11:40	<p>REPLACEMENT OF THE BELT PARKWAY BRIDGE OVER OCEAN PARKWAY</p> <p>Charles Norrish, III, Chris Sklavounakis, Russell A. Pratt</p> <p>Gannett Fleming, Inc.</p> <p>USA</p>	11:20 - 11:40	<p>DYNAMIC ANALYSIS OF BRIDGES UNDER MOVING LOADS</p> <p>Sanjay Gurav</p> <p>University of North Dakota</p> <p>USA</p>
11:40 - 12:00	<p>THREE SPANS IN ONE. BRIDGE IN BENICARLO</p> <p>Salvador Monleón Cremades, Carlos Lázaro Fernández, Alberto Domingo Cabo</p> <p>CMD Ingenieros</p> <p>Spain</p>	11:40 - 12:00	<p>APPLICATION OF OVERLOAD FATIGUE DAMAGE IN PERMIT LOAD BRIDGE RATING</p> <p>Inmar Badwan and Robert Y. Liang</p> <p>University of Akron</p> <p>USA</p>

WEDNESDAY, AUGUST 23RD, 2006

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PARALLEL SESSION 1		PARALLEL SESSION 1	
10:20 - 12:00	THEME 2: NEW CONSTRUCTION Room C	10:20 - 12:00	THEME 6: ANALYSIS Room D
10:20 - 10:40	MANITOBA FLOODWAY EXPANSION PROJECT - BRIDGE REPLACEMENT Norm Ulyatt Dillon Consulting Limited Canada	10:20 - 10:40	STABILITY ANALYSIS OF HIGHWAY 11 BRIDGES OVER P3 TRIBUTARY Brent I. Archibald, Jonathan J. Werner Delcan Corporation Canada
10:40 - 11:00	COMPLETE BRIDGE SPAN INSTALLATIONS Bill Halsband Mammoet Canada	10:40 - 11:00	NUMERICAL STUDY ON THE DYNAMIC EFFECTS CAUSED BY VEHICULAR TRAFFIC ON A FERRY BOARDING RAMP Marc Savard Ministère des Transports du Québec Canada
11:00 - 11:20	INCORPORATING ART INTO BRIDGE DESIGN - SINGLE AND MULTIPLE SPAN PRECAST CONCRETE ARCH APPLICATIONS Paul Proctor, John Shall Reinforced Earth Company Ltd. Canada	11:00 - 11:20	COMPUTER-AIDED GEOMETRIC DESIGN OF HIGHWAY BRIDGES Adel Fam, George Morcouc and Mourad Bakhoum Pro/Bridge Engineering Canada
11:20 - 11:40	HOW TO BUILD A 700 FT. \$20M CONCRETE BRIDGE IN ONE YEAR James M. Barker, Richard H. Walters, James A. O'Leary HNTB Corporation USA	11:20 - 11:40	I-GIRDER WARPING STRESS CALCULATION IN 2D FE MODEL Yong Yang, Jianyuan Sun HDR Engineering Inc. USA
11:40 - 12:00	STUDY AND DESIGN OF AN ADAPTIVE TUNED MASS DAMPER FOR SELF-CLIMBING FORMWORK IN THE CONSTRUCTION OF CONCRETE PIERS Carlos Casado Sánchez, Alfonso Poncela Méndez, Antolin Lorenzana Ibán CARTIF Spain	11:40 - 12:00	TORSIONAL BEHAVIOUR IN BEAMS AND SLAB DECKS Marco Petrangeli, Alberto Viskovic Università G.D'Annunzio Italy

	PARALLEL SESSION 1		PARALLEL SESSION 1
10:20 - 12:00	THEME 1: INNOVATIVE DESIGN Room E	10 :20 - 12 :00	THEME 7: ADVANCED MATERIALS IN BRIDGES Room F
10:20 - 10:40	INVESTIGATING A CHANGE OF STRUCTURAL SYSTEM FROM INTERNAL TO EXTERNAL POST-TENSIONING Michael W. Paulsen, David M. Rogowsky, Scott D. B. Alexander Associated Engineering Ltd. Canada	10:20 - 10:40	USING REACTIVE POWDER CONCRETE IN AN INNOVATIVE SLAB SYSTEM Ammar Hassan and Makoto Kawakami Taisei Corporation Japan
10:40 - 11:00	DESIGN OF MISSISSIPPI RIVER BRIDGE OVERCOMES ENVIRONMENTAL, FOUNDATION AND STRUCTURAL CHALLENGES Iqbal Husain, Nicolas Theodor, Tony Sanguiliano and Dave McAvoy Ministry of Transportation of Ontario Canada	10:40 - 11:00	STAINLESS STEEL USE IN PEDESTRIAN BRIDGES Frank N. Smith, Kirk D. Wilson Consultant Canada
11:00 - 11:20	DEVELOPMENT OF A BRIDGE EXPANSION JOINT WITH INFLATABLE SEAL SYSTEM Jim Au, Clifford Lam and Bala Tharmabala Ministry of Transportation of Ontario Canada	11:00 - 11:20	DUCTAL® PRESTRESSED GIRDERS FOR A TRAFFIC BRIDGE IN MAYENNE, FRANCE Mouloud Behloul, Jacques Resplendino and Olivier Bayard Lafarge France
11:20 - 11:40	JOINTLESS ABUTMENT DETAILING FOR AN ORTHOGONAL-ENDED STRUCTURE Kelvin L. Fields Neill and Gunter Ltd.	11:20 - 11:40	STAINLESS STEEL REBAR: A LONG-LASTING REINFORCEMENT FOR BRIDGES. Frank N. Smith & Kevin Cornell Consultant Canada
		11:40 - 12:00	HIGH PERFORMANCE STEEL FOR HIGHWAY BRIDGES IN THE USA

Canada

BRIDGES IN THE USA

Vasant C. Mistry

11:40 - 12:00

**3 NEW FLAZ RIVER BRIDGES SAMEDAN
SWITZERLAND**

Federal Highway Administration

USA

Andrea Pedrazzini, Eugenio Pedrazzini, Nicola Baserga,
Christian Mozzetti

Ingegneri Pedrazzini sagl

Switzerland

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WEDNESDAY, AUGUST 23RD, 2006

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PARALLEL SESSION 1

PARALLEL SESSION 1

10 :20 - 12 :00

**THEME 5: REHABILITATION AND
RETROFITTING**

10:20 - 12:00

**THEME 9: REPAIR, MAINTENANCE
AND EVALUATION**

Room G

Room H

10:20 - 10:40

**REHABILITATION OF THE LENNOXVILLE
BRIDGE INCORPORATING THE SPS (SANDWICH
PLATE SYSTEM) TECHNOLOGY**

10:20 - 10:40

**FAILURE INVESTIGATION OF STEEL ARCH
BRIDGE IN LATCHFORD, ONTARIO**

Sylvain Lapierre

Bagnariol, Dino and Kenedi, Walter

CIMA+

Ministry of Transportation of Ontario

Canada

Canada

10:40 - 11:00

**PREFABRICATED BRIDGE DECK PANELS -
TWENTY YEARS OF HISTORY**

10:40 - 11:00

**MECHANICAL AND HEALTH MONITORING
PERFORMANCE OF RC CONCRETE
BRIDGE EXTERNALLY REINFORCED BY
CFRP BONDING**

Mark Kaczinski

E. Ferrier, A. Si-Larbi, P. Hamelin

D.S. Brown Company

Université LYON 1

USA

France

11:00 - 11:20

**STRENGTHENING OF RC INVERTED
T BENT CAP GIRDERS USING ANCHORED
CFRP SHEETS**

11:00 - 11:20

**PERFORMANCE AND DESIGN CONSIDERATIONS
OF SLIDING PLATE-STRIP SEAL EXPANSION
JOINTS**

Khaled Galal and Mukesh Sekar

David Lai, Naran Patel

Concordia University

Ministry of Transportation of Ontario

Canada

Canada

11:20 - 11:40

TRANSPORTATION GOVERNANCE

11:20 - 11:40

EXPERIMENTAL STUDY ON VARIOUS TYPES

11:20 - 11:40
**HIGH PERFORMANCE CONCRETE
OVERLAY FOR REHABILITATION
AND STRENGTHENING OF ORTHOTROPIC
STEEL BRIDGE DECKS**

Peter Buitelaar, René Braam, Niek Kaptijn
and Henk Sliedrecht

Contec ApS

Denmark

11:40 - 12:00
**EFFECT OF DESIGN VARIABLES ON THE
FAILURE MECHANISMS OF FRP-REHABILITATED
RC INVERTED T-BEAM BRIDGE BENTCAPS**

Khaled Galal and Mukesh Sekar

Concordia University

Canada

11:40 - 12:00
**FIELD PERFORMANCE OF PRESTRESSED
CONCRETE BRIDGE GIRDERS PROTECTED BY
CATHODIC PROTECTION AND CONCRETE
SURFACE TREATMENT**

Nathalie Chagnon and Zoubir Lounis

National Research Council Canada

Canada

**OF RETROFITTING METHODS FOR CRACK/
UN CRACK SECTION OF R.C.ELEMENTS**

Chetan R. Patel

C.K.Pithawalla College of Eng. &Tech

India

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WEDNESDAY, AUGUST 23, 2016 **Page 19**

PARALLEL SESSION 1

10:20 - 12:00
**THEME 8: INSTRUMENTATION, TESTING
AND MONITORING**

Room J

10:20 - 10:40
**RESPONSE OF HELICAL STEEL CULVERTS
DURING BACKFILLING IN FULL SCALE
TEST PROGRAM**

RW Pritchard, RA Day, PF Dux, KY Wong

University of Queensland

Australia

10:40-11:00
**DAMAGE IDENTIFICATION OF GIRDER BRIDGE'S
FLEXURAL STIFFNESS**

LIU Hua; YE Jianshu

Southeast University

China

11:00-11:20
**RECONSTRUCTION OF LOAD TRANSFER
TRAJECTORIES ON A REINFORCED CONCRETE
BRIDGE WITH A LARGE SKEW FROM THE**

RESULTS OF A STATIC LOAD TEST

Michel Küntz

CORAXIS

Canada

11:20 - 11:40

FIELDTESTS OF SOIL-STEEL BRIDGE STRUCTURE

Damian Beben, Manko Zbigniew

Opole University of Technology

Poland

11:40 - 12:00

**APPLICATION OF LONG GAGE-LENGTH
FIBER OPTIC SENSORS TO MONITOR
BRIDGE STRUCTURES**

R.C. Tennyson, N. Banthia, A. Mufti, A. Rivera

FOX-TEK

Canada

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WEDNESDAY, AUGUST 23RD, 2006

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PARALLEL SESSION 2

13:30 - 15:10

THEME 1: INNOVATIVE DESIGN

Room A

PARALLEL SESSION 2

13:30 - 15:10

THEME 6: ANALYSIS

Room B

13:30 - 13:50

**INNOVATIONS IN OPEN SPANDREL ARCH
BRIDGE DESIGN**

Samanaidu Balakrishnan

Associated Engineering Group Ltd.

Canada

13:30 - 13:50

PRINCIPLE OF DESIGN OF PILE TRESTLE BRIDGES

Anthony Ikpong

Highways and Public Works Yukon

Canada

13:50 - 14:10

GREENWAY BRIDGE

Joost Meyboom, AnnaLisa Meyboom, M. Sutton

Delcan Corporation

Canada

13:50 - 14:10

**ELASTIC VERSUS ULTIMATE PERFORMANCE OF
PRESTRESSED CONCRETE BRIDGES**

Marcio Araujo and C. S. Cai

Louisiana State University

USA

	Canada		USA
14:10 - 14:30	TONGNAN BRIDGE INTIANJIN,CHINA Joost Meyboom,W.Victor Anderson Delcan Corporation Canada	14:10 - 14:30	ULTIMATE STRENGTH OF COMPOSITE I-GIRDER IN PURE POSITIVE BENDING Masatsugu Nagai,Yoshiaki Okui, Naofumi Inaba and Eiji Iwasaki Nagaoka University ofTechnology Japan
14:30 - 14:50	DESIGN OFTHE MAIN SPANS OF SECOND HIGHWAY BRIDGE OVERYELLOW RIVER IN ZHENGZHOU,CHINA Bao-chun Chen, Gui-han Peng Fuzhou University China	14:30 - 14:50	SLAB CRACKING DURING COMPOSITE BRIDGE CONSTRUCTION: EFFECTIVENESS OF FRACTIONATED CASTINGS IN CONTROLLING THE PHENOMENON Luigino Dezi, Fabrizio Gara, Gianluca Ranzi and Graziano Leoni Marche Polytechnic University Italy
14:50 - 15:10	DESIGN PHILOSOPHYAND SUMMARY REPORT: THE PALM JUMEIRAH GATEWAY BRIDGE, DUBAI,UAE Thomas Piotrowski and James Fox H2L2 Architects / Planners USA	14:50 - 15:10	CONTROL OF CRACKING FOR CONCRETE BRIDGES-THE PERFORMANCE OF CALCULATION MODELS Lars Eckfeldt Dresden University ofTechnology Germany

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	PARALLEL SESSION 2		PARALLEL SESSION 2
13:30 - 15:10	THEME 2: NEW CONSTRUCTION Room C	13:30 - 15:10	THEME 6:ANALYSIS Room D
13:30 - 13:50	REPLACEMENT OF RAINY RIVER BRIDGE PC Lim, Steve DelVecchio Canadian National Railway Canada	13:30 - 13:50	COMPARISON OF DESIGN EFFECTIVE BRIDGETEMPERATURE RANGES USING DIFFERENT BRIDGE DESIGN CODES Alexander Au, Clifford Lam and BalaTharmabala

			Ministry of Transportation of Ontario Canada
13:50 - 14:10	DESIGN OF SHORT AND MEDIUM SPAN STEEL RAILWAY BRIDGES - MODERN PRACTICE ON NORTH AMERICAN FREIGHT RAILROADS John F. Unsworth Canadian Pacific Railway Canada	13:50 - 14:10	PREDICTIONS ON FLEXURAL BEHAVIOUR OF REINFORCED CONCRETE BEAMS: APPLICATION OF A FRACTURE MECHANICS APPROACH Yail J. Kim, R. Gordon Wight and Mark F. Green Queen's University Canada
14:10 - 14:30	INNOVATIVE CONCEPTS FOR SEGMENTAL CONCRETE INTERCHANGE Vijay Chandra Parsons Brinckerhoff USA	14:10 - 14:30	SPAN STRETCHING AND OPTIMAL DESIGN OF PRESTRESSED I-GIRDER BRIDGES USING HIGH STRENGTH CONCRETE AND LRFD METHOD Kamal Mirtalaei, Jean Nehme Arizona Department of Transportation USA
14:30 - 14:50	CN RAILWAY NEW MEMPHIS SUPER TERMINAL (MST) INTERMODAL DESIGN AND CONSTRUCTION OF A RAILROAD BRIDGE OVER HORN LAKE CUT-OFF DITCH Fernando Moreu ESCA Consultants USA	14:30 - 14:50	LIVE LOAD DISTRIBUTION FOR CONCRETE BRIDGES WITH AASHTO/PCI GIRDERS Z.G. Yousif and R.A. Hindi Bradley University Canada
14:50 - 15:10	SIMULATION OF THE RE-DECKING OF JACQUES CARTIER BRIDGE CONSIDERING SPATIAL CONSTRAINTS Cheng Zhang, Amin Hammad, G. Wainer and Tarek M. Zayed Concordia University Canada	14:50 - 15:10	EFFECTIVE SLAB WIDTH IN COMPOSITE DECKS: NEW FORMULAS FOR DIFFERENT LOADING CONDITIONS Luigino Dezi, Fabrizio Gara and Graziano Leoni Marche Polytechnic University Italy

13:30 - 15:10
PARALLEL SESSION 2
THEME 1: INNOVATIVE DESIGN
Room E

13:30 - 15:10
PARALLEL SESSION 2
THEME 7: ADVANCED MATERIALS
IN BRIDGES
Room F

13:30 - 13:50	<p>BRIDGE DECKS HIGH SPEED WATERPROOFING SYSTEMS - SUMMARY OF ACHIEVEMENT IN CANADA</p> <p>Sabine Le Bec, Yvan Paquin</p> <p>Construction DJL inc.</p> <p>Canada</p>	13:30 - 13:50	<p>PERFORMANCE OF ALBERTA INFRASTRUCTURE AND TRANSPORTATION FIBRE REINFORCED OVERLAYS</p> <p>Paul D. Carter, David J. Besuyen</p> <p>CH2M HILL</p> <p>Canada</p>
13:50 - 14:10	<p>VANCOUVER CONVENTION CENTRE VIADUCT</p> <p>Craig Schaper, Don H. McCulloch</p> <p>EarthTech Inc.</p> <p>Canada</p>	13:50 - 14:10	<p>DUCTILITY AND DEFORMABILITY OF PARTIALLY PRESTRESSED CONCRETE BEAMS WITH UNBONDED TENDONS</p> <p>Karmen Tso, Francis T. K. Au and Ray K. L. Su</p> <p>University of Hong Kong</p> <p>China</p>
14:10 - 14:30	<p>DESIGN AND CONSTRUCTION OF THE SR 836 FLYOVER BRIDGES</p> <p>Scott W. Dean</p> <p>HNTB Corporation</p> <p>USA</p>	14:10 - 14:30	<p>PROPOSED SHEAR PROVISIONS FOR FRP REINFORCED BRIDGE BEAMS AND GIRDERS</p> <p>John P. Newhook, Brahim Benmokrane and Gamil Tadros</p> <p>Dalhousie University</p> <p>Canada</p>
14:30 - 14:50	<p>EXPERIENCE OF INNOVATIVE INTEGRAL BRIDGES IN CHINA</p> <p>Xiaoqin Jin, Xudong Shao</p> <p>Hunan University</p> <p>China</p>	14:30 - 14:50	<p>THE FIRST HIGHWAY BRIDGE APPLYING ULTRA HIGH STRENGTH FIBER REINFORCED CONCRETE IN JAPAN</p> <p>Hikari Okuma, Ikuo Iwasaki, Koichi Nishikawa, Tadatashi Morita</p> <p>Taisei Corporation</p> <p>Japan</p>
14:50 - 15:10	<p>AL ENANIA BOWSTRING BRIDGE - EGYPT</p> <p>Hussein Abbas</p> <p>Al Azhar University</p> <p>Egypt</p>	14:50 - 15:10	<p>DEVELOPMENT OF LIGHTWEIGHT HIGH PERFORMANCE CONCRETE MIXES FOR BRIDGE DECK RECONSTRUCTION – STRENGTH, WEIGHT, AND DURABILITY CHARACTERISTICS</p> <p>Guy Mailhot, Glen P. Carlin</p> <p>The Jacques Cartier and Champlain Bridges Inc.</p> <p>Canada</p>

PARALLEL SESSION 2		PARALLEL SESSION 2	
THEME 5: REHABILITATION AND RETROFITTING		THEME 9: REPAIR, MAINTENANCE AND EVALUATION	
Room G		Room H	
13:30 - 15:10		13:30 - 15:10	
13:30 - 13:50	<p>CN RAILWAY CONSTRUCTION OF A NEW 80' – 0" STEEL GIRDER SPAN MILE U5.6 EDGEWOOD SUBDIVISION, CRUSE, IL</p> <p>Fernando Moreu ESCA Consultants, Inc. USA</p>	13:30 - 13:50	<p>RELIABILITY-BASED DETERIORATION MODEL FOR DEFLECTION LIMIT STATE OF STEEL GIRDER BRIDGES</p> <p>Pascal Laumet, Andrzej S. Nowak University of Michigan USA</p>
13:50 - 14:10	<p>LIFE-CYCLE ANALYSIS FOR THE GULLWING RIVER BRIDGE REPLACEMENT</p> <p>P.A. Scalzo, K.W. Simbeya Cook Engineering Canada</p>	13:50 - 14:10	<p>LIVE LOAD DISTRIBUTIONS ON IMPACT DAMAGED PRESTRESSED CONCRETE GIRDER BRIDGE</p> <p>Yail J. Kim, Mark F. Green, and R. Gordon Wight Queen's University Canada</p>
14:10 - 14:30	<p>ANALYSIS ON THE STRENGTHENING EFFICIENCY OF NEAR SURFACE MOUNTED CFRP LAMINATES</p> <p>Jae-Yoon Kang, Young-Hwan Park, Jong-Sup Park, Young-Jun You, Woo-Tai Jung Korea Institute of Construction Technology South Korea</p>	14:10 - 14:30	<p>PRELIMINARY SEISMIC PERFORMANCE EVALUATION OF HIGHWAY BRIDGES</p> <p>Ozgur Avsar, Ahmet Yakut, Gizem Sevgili and Alp Caner Middle East Technical University Turkey</p>
14:30 - 14:50	<p>REVISITING REPLACEMENT RATIONALE FOR THE CLARKE ROAD BRIDGE: "REHABILITATION OF A BRIDGE WITH ONE FOOT IN THE GRAVE"</p> <p>John Pucchio, Matthew Murphy, Ian Blevins, Tony Fediw, John Lucas EarthTech Canada Inc. Canada</p>	14:30 - 14:50	<p>GARDEN CITY SKYWAY SUBSTRUCTURE REHABILITATION</p> <p>Issam ElKhatib, Dennis Baxter Totten Sims Hubicki Associates Canada</p>
14:50 - 15:10	<p>SMALL AND MEDIUM SPAN BRIDGES: CASE STUDIES FOR STANDARD SOLUTIONS WITH REDUCED MAINTENANCE REQUIREMENTS</p> <p>Enzo Siviero, Bruno Briseghella, Tobia Zordan University of Architecture in Venice (IUAV) Italy</p>	14:50 - 15:10	<p>ASSESSMENT AND MAINTENANCE OF A 15 YEAR OLD STRESS-LAMINATED TIMBER BRIDGE</p> <p>T. Russell Gentry, Karl N. Brohammer, John Wells, James P. Wacker Georgia Institute of Technology USA</p>

WEDNESDAY, AUGUST 23RD, 2006

Page 24**PARALLEL SESSION 2**

13:30 - 15:10 **THEME 8: INSTRUMENTATION, TESTING
AND MONITORING**

Room J

13:30 - 13:50 **COMPARING MONITORING AND POST
DICTION RESULTS OF A HSC CANTILEVER BRIDGE**

Cornelis van derVeen and Ane de Boer

Delft University of Technology

Netherlands

13:50- 14:10 **APPLICATION OF LONG RANGE 3D LASER
SCANNING FOR REMOTE SENSING AND
MONITORING OF COMPLEX BRIDGE STRUCTURES**

Guy Mailhot, Sorin Busuioc

The Jacques Cartier and Champlain Bridges Inc.

Canada

14:10 - 14:30 **FATIGUE TESTS ON FULL-SCALE REINFORCED
CONCRETE SLABS:A CASE STUDY**

M.P. Natali Sora, G. Rosati

Politecnico di Milano

Italy

14:30 - 14:50 **COMPARISON OF TWO IDENTICAL TWIN
HIGHWAY BRIDGES**

Jean-François Laflamme, Marc Savard, Martin Talbot

Ministère des Transports du Québec

Canada

14:50 - 15:10 **STRUCTURAL EVALUATION OF BRIDGE DREZNIK**

Damir Tkalčić, Davor Banic, Igor Dzajic

Civil Engineering Institute of Croatia

	PARALLEL SESSION 3		PARALLEL SESSION 3
15:30 - 16:50	THEME 1: INNOVATIVE DESIGN	15:30-16:50	THEME 6: ANALYSIS
	Room A		Room B
15:30 - 15:50	INNOVATIVE BRIDGE DESIGN FOR THE SEA-TO-SKY HIGHWAY IMPROVEMENT PROJECT, DESIGN-BUILD WORK PACKAGE NO. 2, SUNSET BEACH TO LIONS BAY	15:30 - 15:50	SOME IMPLICATIONS OF USING EUROCODE 2 IN THE DESIGN OF MEDIUM SPAN BRIDGES
	Jianping Jiang, Keith Holmes, Monty Knaus ND LEA Inc. Canada		JoséTurmo, Gonzalo Ramos and Angel Carlos Aparicio ETS de Ingenieros de Caminos Spain
15:50 - 16:10	DESIGN OF HIGHLY CURVED CONCRETE RAMP BRIDGES	15:50 - 16:10	FATIGUE OF TUBULAR BRIDGE JOINTS USING WELDED OR CAST STEEL NODE SOLUTIONS
	Adel Fam, Derk Meyer and Hank Huitema Pro/Bridge Engineering Canada		Ann Schumacher, Alain Nussbaumer, Senta Haldimann-Sturm Swiss Federal Laboratories for Materials Testing and Research Switzerland
16:10 - 16:30	CONTINUOUS STEEL-CONCRETE COMPOSITE CONSTRUCTION FOR BRIDGES - AN ECONOMICAL SOLUTION	16:10 - 16:30	FATIGUE DESIGN OF STEEL-CONCRETE COMPOSITE BEAMS USING F.E.M.
	Pydi Lakshmana Rao INSDAG India		Samy GUEZOULI INSA de Rennes France
16:30 - 16:50	CONSTRUCTION OF SHAIKH ZAYED ARCH BRIDGE IN ABU DHABI	16:30 - 16:50	STRUCTURAL ANALYSIS OF COLD CURVED STEEL PLATE GIRDERS
	Parviz Djahani and Jamal AL-Hosani Department of Municipalities and Agriculture		Antoine N. Gergess, Rajan Sen University of Balamand Lebanon

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PARALLEL SESSION 3		PARALLEL SESSION 3	
15:30 - 16:50	THEME 2: NEW CONSTRUCTION Room C	15:30 - 16:50	THEME 6: ANALYSIS Room D
15:30 - 15:50	MINISTRY OF TRANSPORTATION ONTARIO EXPERIENCE IN BRIDGE PLANNING Quazi M. Islam and Iqbal Husain Ministry of Transportation of Ontario Canada	15:30 - 15:50	SURPRISES INSIDE POST-TENSIONED STRUCTURES AND REMEDIES Vijay Chandra, Keith Donington Parsons Brinckerhoff Inc. USA
15:50 - 16:10	THE WUPPER RIVER VALLEY BRIDGE :A STATE- OF-THE-ART COMPOSITE BRIDGE Gero Marzahn, M. Hamme, W. Prehn, J. Swadlo Northrhine-Westfalia Dept. of Transportation Germany	15:50 - 16:10	NEW DEVELOPMENT TO CALCULATE FRICTION LOSS BY 3D FINITE ELEMENT METHOD (3DFEM) F. Danesh , M. Ziaei , M. Ansari Iran University of Science & Technology Iran
16:10 - 16:30	A MODERN CONCEPT OF MOVABLE SCAFFOLDING SYSTEMS António Póvoas Bridge Construction Systems - Portugal Portugal	16:10 - 16:30	PREDICTION OF LOADING-INDUCED TENDON SLIP AT DEVIATORS IN BEAMS PRESTRESSED WITH EXTERNAL TENDONS Bui Khac Diep, Niwa Junichiro Tokyo Institute of Technology Japan

16:30-16:50

**PROPOSED CONNECTION DETAILS FOR PRECAST
CONCRETE BULB TEE GIRDER BRIDGES**

Khaled Sennah, Bijal Shah, Reza Kianoush, SiyinTu,
Clifford Lam

Ryerson University

Canada

Japan

16:30 - 16:50

**ASSESSING THE NORTH AMERICAN BRIDGE
CODES FOR THE DESIGN OF T-GIRDERS UNDER
TORSION AND SHEAR**

A. Deifalla,A. Ghobarah

McMaster University

Canada

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15:30 - 16:50

PARALLEL SESSION 3
THEME 1: INNOVATIVE DESIGN
Room E

15 :30 - 16 :50

PARALLEL SESSION 3
**THEME 7 – ADVANCED MATERIALS
IN BRIDGES**
Room F

15:30 - 15:50

**TIME-DEPENDENT EFFECTS IN CONTINUOUS
COMPOSITE NU-GIRDER BRIDGES**
Walter H. Dilger and Gerd Birkle
University of Calgary
Canada

15:30-15:50

**BEHAVIOR OF BRIDGE DECKS REINFORCED
WITH MMFX STEEL**
Hatem Seliem, Gregory Lucier, Sami Rizkalla, and Paul Zia.
North Carolina State University
USA

15:50 - 16:10

**PRECAST PRESTRESSED CONCRETE DECK
BULB TEE BRIDGES**
Mantu C. Baishya, Steven D. Kneip, Joel B. Rossman
Kirkham Michael
USA

15:50 - 16:10

**EVALUATION OF MEDIUM SPAN HYBRID CABLE
STAYED BRIDGES WITH ADVANCED COMPOSITE
DECK USING FINITE ELEMENT METHOD**
Husham H. Almansour & M. S. Cheung
University of Ottawa
Canada

16:10 - 16:30

PRETENSIONED PRESTRESSED CONCRETE BEAM

	<p>BRIDGES AND INDUSTRIAL SUPPLY</p> <p>Pierre Passeman, Van-Tho Doan, Philippe Boyer</p> <p>CERIB</p> <p>France</p>	16:10 - 16:30	<p>NEW CHBDC PROVISIONS FOR DESIGN OF FIBRE REINFORCED STRUCTURES</p> <p>JMBT Structures Research Inc.</p> <p>Canada</p>
16:30 - 16:50	<p>DESIGN AND CONSTRUCTION OF STEEL ARCH BRIDGE USING CONCRETE FILLED TUBES (CFT) AT THIMPU CITY, BHUTAN</p> <p>Swapan Sengupta</p> <p>Span Consultants Pvt. Ltd.</p> <p>India</p>	16:30 - 16:50	<p>HIGH STRENGTH CONCRETE FOR FLEXURAL DESIGN OF BRIDGE GIRDERS</p> <p>Halit Cenan Mertol, Sami Rizkalla, Paul Zia, Amir Mirmiran</p> <p>North Carolina State University</p> <p>USA</p>

	<p>PARALLEL SESSION 3</p> <p>THEME 5 – REHABILITATION AND RETROFITTING</p> <p>Room G</p>	15:30 - 16:50	<p>PARALLEL SESSION 3</p> <p>THEME 9: REPAIR, MAINTENANCE AND EVALUATION</p> <p>Room H</p>
15:30 - 16:50	<p>RE-DECKING OF THREE MAJOR MONTREAL BRIDGES USING DISTINCT DECK REPLACEMENT METHODS</p> <p>Glen P. Carlin, Guy Mailhot</p> <p>The Jacques Cartier and Champlain Bridges Inc.</p> <p>Canada</p>	15:30 - 16:50	<p>PROPOSED FATIGUE CRITERIA FOR LOAD RATING PRESTRESSED CONCRETE BRIDGES BASED ON STRESS RANGE IN THE STRAND</p> <p>Michael J. Hagenberger</p> <p>Valparaiso University</p> <p>USA</p>

15:50 - 16:10	<p>REPAIR OF HONORÉ MERCIER BRIDGE PIERS BY ENCAPSULATION WITH TERNARY CONCRETE</p> <p>Pierre Pilotte, François Charbonneau</p> <p>The Jacques Cartier and Champlain Bridges Inc.</p> <p>Canada</p>	15:50 - 16:10	<p>INSPECTION OF TIMBER BRIDGES</p> <p>Anna Pousette, Per-Anders Fjellström</p> <p>SP Swedish National Testing and Research Institute</p> <p>Sweden</p>
16:10 - 16:30	<p>DESIGN GUIDELINES FOR STRENGTHENING OF STEEL-CONCRETE COMPOSITE BEAMS WITH HIGH MODULUS CFRP MATERIALS</p> <p>David Schnerch, Mina Dawood, Emmett Sumner and Sami Rizkalla</p> <p>North Carolina State University</p> <p>USA</p>	16:10 - 16:30	<p>FATIGUE BEHAVIOR OF IMPACT DAMAGED PRESTRESSED CONCRETE BRIDGE GIRDER REPAIRED WITH CFRP SHEETS</p> <p>Owen Rosenboom, Anthony Miller and Sami Rizkalla</p> <p>North Carolina State University</p> <p>USA</p>
16:30 - 16:50	<p>SEISMIC EVALUATION AND RETROFIT STRATEGY FOR AN OVERPASS CROSSING RAILWAY LINES</p> <p>De la Puente, Alejandro; Mitchell, Denis; Chouinard, Luc</p> <p>McGill University</p> <p>Canada</p>	16:30 - 16:50	<p>FATIGUE AND REMAINING LIFE ASSESSMENT OF STEEL BRIDGES MORE THAN 50 YEARS OLD</p> <p>Dominique Bauer and Miguel Morales</p> <p>École de technologie supérieure</p> <p>Canada</p>

PARALLEL SESSION 3

15:30 - 16:50

THEME 8 – INSTRUMENTATION, TESTING AND MONITORING

Room J

15:30 - 15:50

STRUCTURAL ACOUSTICS FOR BRIDGES

- 15:50 - 16:00 **STRUCTURAL ANALYSIS FOR BRIDGE
RELIABILITY EVALUATION**

D. Robert Hay, Joel R. Hay, Jose Cavaco, Thomas R. Hay
and Patrick B. Moffatt

TISEC Inc.

Canada
- 15:50 - 16:10 **WAVELET ANALYSIS FOR DAMAGE ASSESSMENT
OF AN EXISTING CONCRETE BRIDGE**

Alireza Alvandi, Josée Bastien, Étienne Grégoire,
Marc Jolin

Université Laval

Canada
- 16:10 - 16:30 **TESTING OF PRECAST PRESTRESSED CONCRETE
RAILROAD BRIDGES**

Duane Otter, Brian Doe and Muhammad Akhtar

Transportation Technology Center, Inc.

USA
- 16:30 - 16:50 **RELAXATION OF PRESTRESSING STEEL
USED IN CONSTRUCTION OF THE
CONFEDERATION BRIDGE**

Abu Dabous, S. and El-Badry, M.

Concordia University

Canada

OPENING SESSION

8:30 - 10:00 **KEYNOTE LECTURES**
Ballroom

8:30 - 9:15 **BRIDGES ON THE CENTRAL ARTERY/TUNNEL
PROJECT, BOSTON MASSACHUSETTS**
Vijay Chandra
Parsons Brinckerhoff Inc.
USA

9:15 - 10:00 **USE OF PREFABRICATED PANELS IN DECK
REPLACEMENT: RECENT EXPERIENCE IN QUEBEC**
Bernard Breault, Adel R. Zaki
SNC-Lavalin inc.
Canada

PARALLEL SESSION 4		PARALLEL SESSION 4	
10:20 - 12:00	THEME 1: INNOVATIVE DESIGN Room A	10:20 - 12:00	THEME 6: ANALYSIS Room B
10:20 - 10:40	BRIDGES THAT COMBINE FUNCTION, ECONOMY AND AESTHETICS YuheYang Parsons Brinckerhoff Inc. USA	10:20 - 10:40	RAILWAY LOADINGS AND REALITY Robert A.P. Sweeney Modjeski & Masters Canada
10:40 - 11:00	ORLANDO INTERMODAL TRANSIT SYSTEM GUIDEWAY "THE ORLANDO EXPERIENCE" - INNOVATIVE DESIGN Victor Ryzhikov, Antonio Ledesma, Joseph Mitchell Parsons Brinckerhoff Inc. USA	10:40 - 11:00	AREMA LONGITUDINAL FORCE REQUIREMENTS Robert A.P. Sweeney Modjeski & Masters Canada
11:00 - 11:20	INNOVATIVE DESIGN OF SHORT SPAN STEEL CONCRETE COMPOSITE BRIDGES WITH ROLLED BEAMS SOME EXAMPLES FROM FRANCE AND GERMANY Wasoodev Hoorpah MIO France	11:00 - 11:20	NUMERICAL ANALYSIS OF RAIL – STRUCTURE INTERACTION AND RESONANCE IN RAILWAY BRIDGES Marco Petrangeli, Cristiano Tamagno University of Pescara Italy
11:20 - 11:40	DISCOVERING THE POSSIBILITIES OF TWO RECENT TYPES OF UNCONVENTIONAL CABLE-STAYED BRIDGES Ana M. Ruiz-Teran, Angel C. Aparicio University of Castilla-La Mancha Spain	11:20 - 11:40	APPROACH TO THE DESIGN OF MODERN RAILWAY BRIDGES J. Turmo and A. Meher Prasad University of Castilla-La Mancha Spain
11:40 - 12:00	THE NEW MAIN STREET BRIDGE Hans R. Hutton, Jon K. Lindsey, Steven T. Hague HNTB Corporation USA	11:40 - 12:00	DYNAMIC ANALYSIS OF CONCRETE RAILWAY BRIDGE FOR HIGH SPEED TRAINS M.A. Shayanfar, M. Ansari, M. Ziaei Iran University of Science & Technology Iran

THURSDAY, AUGUST 24TH, 2006

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PARALLEL SESSION 4		PARALLEL SESSION 4	
10:20 - 12:00	THEME 2: NEW CONSTRUCTION Room C	10:20 - 12:00	THEME 3: SEISMIC DESIGN Room D
10:20 - 10:40	TRANS CANADA HIGHWAY SAINT-LEONARD / LONGS CREEK, NEW BRUNSWICK DESIGN, CONSTRUCTION AND REHABILITATION OF STRUCTURES Brian Donald, Mitchell Smith, Hani Keira and HarryVarjabedian Canada	10:20 - 10:40	COMPARATIVE STUDY OF THE SEISMIC PERFORMANCE OF RETROFITTED MULTI-SPAN STEEL BRIDGES Jamie Ellen Padgett, Reginald DesRoches Georgia Institute ofTechnology USA
10:40 - 11:00	EAST PASCAGOULA RIVER POST-TENSIONED SPLICED GIRDER BRIDGE, MISSISSIPPI, USA TeddyTheryo Parsons Brinckerhoff Quade and Douglas, Inc. USA	10:40 - 11:00	SEISMIC DESIGN AND CONSTRUCTION OF TWO HIGH PROFILE CONCRETE BRIDGES IN A COLD WEATHER ENVIRONMENT Sylvain Montminy,Abdol Noureayan, Ronald J.Watson Delcan Corporation Canada
11:00 - 11:20	SPANNING MISSISQUOI BAY, SIMPLE YET COMPLEX SteveW. Johnson Vanasse Hangen Brustlin, Inc. USA	11:00 - 11:20	BRIDGE SEISMIC EXPANSION JOINTS Paul Bradford Watson Bowman Acme USA
11:20 - 11:40	EXPERIMENTAL STUDIES OF PREFABRICATED BRIDGE DECK MODELS AND CLOSURE STRIP CONNECTIONS Alexander Au, Clifford Lam and BalaTharmabala Ministry ofTransportation of Ontario Canada	11:20 - 11:40	PERFORMANCE-BASED SEISMIC DESIGN OF BRIDGE WITH ENERGY DISSIPATION DEVICES A. Iqbal Bangladesh Consultants Ltd. Bandgladesh
		11:40 - 12:00	SEISMIC BEHAVIOUR OF CABLE-STAYED BRIDGES AND DISSIPATION OF ADDITIONAL ENERGY:A STATE-OF-THE-ART REVIEW

11:40 - 12:00 **INNOVATIVE BUILDING METHODS FOR BRIDGES WITH SMALL AND MEDIUM SPANS – VFT® AND VFT®-WIB**
 Victor Schmitt, Michael Weizenegger
 Schmitt Stumpf Fruehauf & Pa.
 Germany

Galo E. Valdebenito, Angel C. Aparicio
 Technical University of Catalonia
 Spain

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THURSDAY, AUGUST 24, 2006 **Page 33**

10:20 - 12:00 **PARALLEL SESSION 4**
THEME 1: INNOVATIVE DESIGN
 Room E

10:20 - 10:40 **DEVELOPMENT OF CORRUGATED STEEL WEB T-SHAPED PRESTRESSED CONCRETE GIRDER BRIDGES**
 Takahiro Kakuta, Atsushi Fujioka
 PSM Construction USA, Inc.
 USA

10:40 - 11:00 **THE ILSUN BRIDGE: SPECIAL ISSUES FACED IN THE DESIGN AND ANALYSIS OF PRESTRESSED CONCRETE BOX GIRDER BRIDGE WITH CORRUGATED STEEL WEB**
 Kwang Soo Kim, Kwang Hoe Jung, Chungwook Sim
 Hyundai Institute of Construction Technology
 South Korea

11:00 - 11:20 **DESIGN OF A TRIANGULAR PRECAST POST TENSIONED BOX GIRDER**
 Takahiko Kimura, Thomas R. Cooper
 Parsons Brinckerhoff Inc.
 USA

10:20 - 12:00

PARALLEL SESSION 4
THEME 7: ADVANCED MATERIALS IN BRIDGES
 Room F

10:20 - 10:40

CHBDC DESIGN PROVISIONS FOR REHABILITATION OF BRIDGES WITH FRPS
 Mufti, Bakht, Banthia, Benmokrane, Desgagné, Eden, Erki, Karbhari, Kroman, Lai, Machida, Neale, Tadros, Täljsten
 JMBT Structures Research Inc.
 Canada

10:40 - 11:00

IMPROVING THE DURABILITY AND ECONOMY OF SHORT AND MEDIUM SPAN BRIDGES THROUGH INTERNAL CURING
 John W. Roberts, Bruce Jones, Jessica Hulsman
 Northeast Solite Corporation
 USA

11:00 - 11:20

BUILDING A BRIDGE WITH AN ANTICIPATED SERVICE LIFE OF 150 YEARS
 Sylvain Goulet
 Ministère des Transports du Québec
 Canada

11:20 - 11:40	EFFECT OF INITIAL BENDING MOMENT IN COMPOSITE GIRDER UNDER FLEXURE FOR UNSHORED CONSTRUCTION V.K. Gupta, Y. Okui, M. Nagai Saitama University Japan	11:20 - 11:40	ADHESIVELY BONDED FRP COMPOSITE SYSTEM FOR REHABILITATION OF BRIDGE DECK Zihong Liu, Parsun K. Majumdar, Tommy Cousins & Jack Lesko VirginiaTech USA
11:40 - 12:00	LAUNCHING ON SUPPLE SKATES Marco Petrangeli, Marcello Petrangeli Università "G. D'Annunzio" Italy	11:40 - 12:00	FATIGUE BEHAVIOUR OF MMFX CORROSION-RESISTANT REINFORCING STEEL Siebren J. DeJong, Patrick Heffernan, Colin MacDougall Queen's University Canada

PARALLEL SESSION 4		PARALLEL SESSION 4	
10:20 - 12:00	THEME 5: REHABILITATION AND RETROFITTING Room G	10:20 - 12:00	THEME 9: REPAIR, MAINTENANCE AND EVALUATION Room H
10:20 - 10:40	EVALUATION OF NEW SACRIFICIAL ANODE CATHODIC PROTECTION SYSTEMS FOR HIGHWAY BRIDGE DECKS AND SUBSTRUCTURE COMPONENTS David Lai, Frank Pianca Ministry of Transportation of Ontario Canada	10:20 - 10:40	EVALUATING THE FATIGUE LIFE OF REINFORCED CONCRETE BRIDGES Artur Felipe Eckert, Luiz Carlos Pinto da Silva Filho, Francisco de Paula Simões Lopes Gastal Federal University of Brazil Brazil
10:40 - 11:00	CEILING REPAIR OF A RIGID FRAME STRUCTURE USING SELF COMPACTING CONCRETE (SCC) Bernard Pilon Ministère des Transports du Québec Canada	10:40 - 11:00	SYSTEM RELIABILITY MODELS FOR STEEL GIRDER BRIDGES Artur A. Czarnecki and Andrzej S. Nowak University of Nebraska USA
11:00 - 11:20	FLEXURAL BEHAVIOR OF RC BEAMS STRENGTHENED WITH EXTERNALLY PRESTRESSED	11:00 - 11:20	FATIGUE OF HIGH STRENGTH BOLTED CONNECTIONS IN TENSION

**STRENGTHENED WITH EXTERNALLY PRESTRESSED
CFRP LAMINATES**

Park, Jong-Sup; Park, Young-Hwan; Kang, Jae-Yoon; You,
Young-Jun; Jung, Woo-Tai
Korea Institute of Construction Technology
South Korea

CONNECTIONS IN TENSION

Ian MacPhedran, Gilbert Y. Grondin
University of Alberta
Canada

11:20 - 11:40

**REHABILITATION OF DAMAGED STEEL-CONCRETE
COMPOSITE BEAMS USING ULTRA-HIGH
MODULUS CFRP SHEETS**

Amr Shaat and Amir Fam
Queen's University
Canada

11:20 - 11:40

**LEARNING-BASED BRIDGE INSPECTION
DECISION-SUPPORT SYSTEM**

Yongxin Hu, Amin Hammad
Concordia University
Canada

11:40 - 12:00

**REHABILITATION, STRENGTHENING AND
ONGOING MONITORING OF ONTARIO'S LAST
REMAINING COVERED WOODEN BRIDGE**

Ted Brumfitt, Don Moore, John Stephenson
Regional Municipality of Waterloo
Canada

11:40 - 12:00

**ANALYSIS AND DESIGN OF REHABILITATED
BUILT-UP HYBRID COMPRESSION MEMBERS**

Katherine K.W. Shek and F. Michael Bartlett
University of Western Ontario
Canada

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PARALLEL SESSION 4

10:20 - 12:00

**THEME 8: INSTRUMENTATION, TESTING
AND MONITORING**

Room J

10:20 - 10:40

**EXPERIMENTAL AND THEORETICAL NATURAL
FREQUENCIES OF VIBRATION FOR FATIGUED
CONCRETE BEAMS WITH FRPS**

Catalin Gheorghiu, Daniel Bockstael, Jamal E. Rhazi and
Pierre Labossière
University of Manitoba
Canada

10:40 - 11:00

**DYNAMIC LOAD RATING OF SINGLE-SPAN
COUNTY BRIDGES**

COUNTY BRIDGES

Shen-En Chen and Zhisong Zhao
University of North Carolina at Charlotte
USA

11:00 - 11:20 **EXPERIMENTAL INVESTIGATION OF ULTIMATE STRENGTH OF CONCRETE FILLED STEEL TUBE GIRDER**

Chin, Won-Jong ; Kang, Jae-Yoon ; Choi, Eun-Suk ; Lee, Jung-Woo

Korea Institute of Construction Technology
South Korea

11:20 - 11:40 **REAL-TIME SEISMIC MONITORING OF THE INTEGRATED CAPE GIRARDEAU BRIDGE ARRAY AND RECORDED EARTHQUAKE RESPONSE**

Mehmet Çelebi

USGS
USA

11:40 - 12:00 **ASSESSMENT OF BRIDGE DECK SLABS BY RADAR, POTENTIAL OF CORROSION AND ELECTRIC RESISTIVITY**

O. Dous, J. Rhazi, G. Ballivy

Université de Sherbrooke
Canada

13:30 - 15:10 **PARALLEL SESSION 5**
THEME 1: INNOVATIVE DESIGN

Room A

13:30 - 15:10 **PARALLEL SESSION 5**
THEME 6: ANALYSIS

Room B

13:30 - 13:50 **STRUCTURALLY SUPPORTED SINGLE POINT URBAN INTERCHANGES (SPUI)**

Manas Asthana, Craig Smart

IITD

13:30 - 13:50 **SOME CONSIDERATIONS IN DESIGN OF BRIDGES FOR DURABILITY AND SUSTAINABILITY - PART I**

Saeed Mirza

McGill University

	USA		McGill University Canada
13:50 - 14:10	BOSTON'S CENTRAL ARTERY AND ITS INTERCHANGES Vijay Chandra, Keith Donington Parsons Brinckerhoff Inc. USA	13:50 - 14:10	SOME CONSIDERATIONS IN DESIGN OF BRIDGES FOR DURABILITY AND SUSTAINABILITY - PART II Saeed Mirza McGill University Canada
14:10 - 14:30	APPROACHING THE BIG DIG: USE OF PRECAST TRANSITION STRUCTURES Jennifer Hill, Ruchu Hsu, Vijay Chandra Parsons Brinckerhoff Inc. USA	14:10 - 14:30	RELIABILITY BASED BRIDGE RATING SOFTWARE Michael H. Scott, Christopher C. Higgins and Gregory Esch Oregon State University USA
14:30 - 14:50	CONTEXT SENSITIVITY IN PRACTICE THE DESIGN AND CONSTRUCTION OF THE HILLSBOROUGH STREET BRIDGE RALEIGH, NORTH CAROLINA Christian Todd Ray Parsons Brinckerhoff Quade and Douglas USA	14:30 - 14:50	PROBABILISTIC METHODS IN THE SAFETY ASSESSMENT OF EXISTING BRIDGES: A STEP-BY-STEP PROCESS D.F. Wisniewski; J.R. Casas University of Minho Portugal
14:50 - 15:10	DOCKLAND LIGHT RAILWAY CITY AIRPORT EXTENSION Andrew Alder, Alan Sharpe and James Best Halcrow Group Ltd UK	14:50 - 15:10	A THREE DIMENSIONAL NONLINEAR FINITE ELEMENT MODEL FOR ANALYSIS OF MASONRY ARCH BRIDGES M.A. Shayanfar, A. Sadeghian Iran University of Science & Technology Iran

	PARALLEL SESSION 5		PARALLEL SESSION 5
13:30 - 15:10	THEME 2: NEW CONSTRUCTION Room C	13:30 - 15:10	THEME 3: SEISMIC DESIGN Room D

13:30 - 13:50	<p>DESIGN AND CONSTRUCTION FOR DURABILITY: COMPARISON BETWEEN A NORTH-AMERICAN AND EUROPEAN APPROACH</p> <p>G�rard Desgagn�, Brigitte Mahut, Florent Imberty, Patrick Guiraud</p> <p>Minist�re des Transports du Qu�bec</p> <p>Canada</p>	13:30 - 13:50	<p>ASSESSING THE ADEQUACY OF THE 30% COMBINATION RULE IN ESTIMATING THE CRITICAL RESPONSE OF BRIDGE PIERS UNDER MULTI-DIRECTIONAL EARTHQUAKE COMPONENTS</p> <p>Amar Khaled, Robert Tremblay, Bruno Massicotte</p> <p>�cole Polytechnique de Montr�al</p> <p>Canada</p>
13:50 - 14:10	<p>TOWARDS 3D BIM FOR THE BRIDGE LIFECYCLE</p> <p>S. S. Chen, J.W. Li, N. Kannan, R. Patil, K. Potturi, V.-K. Tangirala</p> <p>University at Buffalo, State University of New York</p> <p>USA</p>	13:50 - 14:10	<p>BI-DIRECTIONAL SEISMIC ANALYSIS AND DESIGN OF BRIDGE STEEL TRUSS PIERS ALLOWING A CONTROLLED ROCKING RESPONSE</p> <p>Michael Pollino, Michel Bruneau</p> <p>State University of New York at Buffalo</p> <p>USA</p>
14:10 - 14:30	<p>CONSTRUCTION ENGINEERING ON THE BENICIA-MARTINEZ BRIDGE REPLACEMENT</p> <p>Jean-Guy Deschamps and Thomas Stelmack</p> <p>Parsons</p> <p>USA</p>	14:10 - 14:30	<p>SEISMIC DESIGN OF THE ST-LAURENT BOULEVARD BRIDGE</p> <p>Sylvain B�dard, Ghislain Dionne, Christian Lemay, Pascal Beaus�jour, Patrick Lamontagne</p> <p>Dessau-Soprin</p> <p>Canada</p>
14:30-14:50	<p>MECHANICAL BEHAVIOR OF A BONDED STEEL-CONCRETE COMPOSITE GIRDER</p> <p>A. Si Larbi, E. Ferrier, B. Jurkiewicz, P. Hamelin</p> <p>Universit� LYON 1</p> <p>France</p>	14:30 - 14:50	<p>IMPORTANCE OF ACCURATE SHEAR WAVE VELOCITY IN SEISMIC EVALUATION OF BRIDGES</p> <p>Yegian, M. K.; Patel, J.; Kishore, K. and Jain, S. K.</p> <p>Northeastern University</p> <p>USA</p>
14:50-15:10	<p>THERMAL CRACK RISK ANALYSIS AND APPROPRIATE MEASURES FOR PREVENTING THERMAL CRACKS AT EARLY-AGE IN CONCRETE BRIDGES</p> <p>Ali A. Farhang, Kjell Wallin</p> <p>Swedish Cement and Concrete Research Institute</p> <p>Sweden</p>	14:50 - 15:10	<p>RAILWAY BRIDGE PERFORMANCE IN EARTHQUAKES THAT DAMAGED RAILROADS</p> <p>William G. Byers</p> <p>BNSF Railway</p> <p>USA</p>

	PARALLEL SESSION 5		PARALLEL SESSION 5
	THEME 1: INNOVATIVE DESIGN		THEME 7: ADVANCED MATERIALS
13:30 - 15:10	Room E	13:30 - 15:10	IN BRIDGES
			Room F
13:30 - 13:50	INCREASING SERVICEABILITY OF BRIDGES – WIND ASPECTS	13:30 - 13:50	THE HILLMAN COMPOSITE BEAM
	Petar Sesar, Ana Krecak		John R. Hillman
	Civil Engineering Institute of Croatia		Teng & Associates, Inc.
	Croatia		USA
13:50 - 14:10	WIND ENGINEERING STUDIES FOR PROVENCHER PEDESTRIAN BRIDGE	13:50 - 14:10	INNOVATIVE BRIDGE SYSTEM OF ULTRA HIGH PERFORMANCE FIBRE REINFORCED CONCRETE: EXPERIMENTS, MODELLING AND DESIGN
	Jiming Xie & Dezi Yang		L. G. Sorelli, P. Fanning, F. Toutlemonde
	Rowan Williams Davies & Irwin Inc.		University College of Dublin
	Canada		Ireland
14:10 - 14:30	UNIQUE DESIGN FOR BP PEDESTRIAN BRIDGE, CHICAGO	14:10 - 14:30	CFRP PRESTRESSED CONCRETE PRISMS AS REINFORCEMENT IN CONTINUOUS CONCRETE T-BEAMS
	Hal Iyengar, Christopher Rockey, Robert Sinn and John Zils		Shahryar Davoudi, Catalin Gheorghiu, Dagmar Svecova
	Skidmore, Owings and Merrill LLP		University of Manitoba
	USA		Canada
14:30 - 14:50	STUDY ON RIGID AND FLEXIBLE STRUCTURE SYSTEM OF GIANT WHEEL IN CIHAI BRIDGE	14:30 - 14:50	A NEW CONCEPT FOR LIGHTWEIGHT HYBRID-FRP BRIDGE DECK
	Wang Xiaodun, Chen Zhihua, Shi Yongjiu, Wang Yuanqing, Yan Xiangyu		Erika Schaumann, Till Vallée and Thomas Keller
	Tsinghua University		Swiss Federal Institute of Technology Lausanne (EPFL)
	China		Switzerland
14:50 - 15:10	ROTATION BRIDGE ON WATERWAY STRUCTURE BASED ON FINGER TOUCH SIMULATION USING MULTI-POINTS REACTION AT JOINT SUPPORT SHELL	14:50-15:10	WEAR OF POLYETHYLENE SHEATHINGS OF EXTERNAL TENDONS AT DEVIATION POINTS IN POST TENSIONED BOX GIRDER BRIDGES
	Afshin Turk, Shabnam Ghanavatizadeh		Hermann Weiher, Konrad Zilch
	KWPA		Technical University Munich
	Iran		Germany

<p>13 :30 - 15 :10</p>	<p>PARALLEL SESSION 5 THEME 5 – REHABILITATION AND RETROFITTING Room G</p>	<p>13:30 - 15:10</p>	<p>PARALLEL SESSION 5 THEME 9: REPAIR, MAINTENANCE AND EVALUATION Room H</p>
<p>13:30 - 13:50</p>	<p>EXPERIMENT ON STRENGTHENING EFFICIENCY OF RC BEAMS STRENGTHENED WITH NSM CFRP REINFORCEMENTS Jung, Woo-Tai; Park, Young-Hwan; Park, Jong-Sup; Kang, Jae-Yoon; You, Young-Jun Korea Institute of Construction Technology South Korea</p>	<p>13:30 - 13:50</p>	<p>CONTAINMENT DESIGN FOR THE PATTULLO BRIDGE STEEL COATING OPERATIONS P.A. Scalzo, K.W. Simbeya, J.G. Hartviksen Cook Engineering Canada</p>
<p>13:50 - 14:10</p>	<p>WIND TUNNEL TESTING AND STABILITY ANALYSIS OF THE ILE D’ORLÉANS SUSPENSION BRIDGE Brad A. Pridham, Stoyan Stoyanoff, Martin Talbot, Alain Brassard, Rowan Williams Davies & Irwin Inc. Canada</p>	<p>13:50 - 14:10</p>	<p>CLEANING AND PAINTING OF THE JACQUES CARTIER BRIDGE – COMPLETING THE CHALLENGE AFTER 15 YEARS OF WORK AND MORE THAN \$45M OF INVESTMENT Glen P. Carlin, Guy Mailhot The Jacques Cartier and Champlain Bridges Inc. Canada</p>
<p>14:10 - 14:30</p>	<p>RECONSTRUCTION OF THE TURCOTTE BRIDGE IN SOREL-TRACY Gaetan Couture , Michaela Aldea, Bernard Pilon Teknika HBA Canada</p>	<p>14:10 - 14:30</p>	<p>SEISMIC EVALUATION OF LEMIEUX ISLAND PIPELINE BRIDGES - A LIFELINE FOR THE CITY OF OTTAWA FRESH WATER NEEDS Jack Ajrab, Sylvain Montminy, Bruce Mason Delcan Corporation Canada</p>
<p>14:30 - 14:50</p>	<p>DECK REHABILITATION OF THE PEACE RIVER BRIDGE AT DUNVEGAN Bob Ramsay UMA Engineering Ltd. Canada</p>	<p>14:30 - 14:50</p>	<p>EVALUATION AND REPAIRS STRATEGIES FOR NALUBAALE DAM BRIDGE Anthony G Kerali Makerere University Uganda</p>
<p>14:50 - 15:10</p>	<p>—</p>	<p>14:50 - 15:10</p>	<p>BRIDGE INSPECTION AND EVALUATION ON CROATIAN HIGHWAYS</p>

THURSDAY, AUGUST 24TH, 2006

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PARALLEL SESSION 5

- 13:30 - 15:10 **THEME 10: HISTORICAL BRIDGES**
Room J
- 13:30 - 13:50 **RAISING OF THE JACQUES CARTIER
BRIDGE – AN HISTORICAL ACCOUNT OF
A DARING ENGINEERING FEAT**
Guy Mailhot, Peter Dozzi, Glen P. Carlin
The Jacques Cartier and Champlain Bridges Inc.
Canada
- 13:50 - 14:10 **REPAIR OF A STEEL BRIDGE WITH HIGH
HERITAGE VALUE**
Christian Mercier
Ministère des Transports du Québec
Canada
- 14:10 - 14:30 **APPLICATION OF CONTEXT SENSITIVE
DESIGN PRINCIPLES AND PROCESSES TO REPLACE
A HERITAGE BRIDGE IN ONTARIO**
Tanya Cross, Susan Wagter, Edward Li
Morrison Hershfield Limited
Canada
- 14:30 - 14:50 **THE RESTORATION OF THE PONT TRENCAT**
Xavier Font
MLM Consulting Engineers
Canada

span

14:50 - 15:10 **REHABILITATION OF THE HISTORIC BRIDGE OF LIONS, ST.AUGUSTINE, FLORIDA**
Joseph J. Pullaro, DavidT. Sweeney
Lichtenstein Consulting Engineers
USA

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THURSDAY, AUGUST 24, 2016 **Page 41**

15:30 - 16:50 **PARALLEL SESSION 6**
THEME 1: INNOVATIVE DESIGN
Room A

15:30 - 16:50 **PARALLEL SESSION 6**
THEME 6: ANALYSIS
Room B

15:30 - 15:50 **SHORT AND MEDIUM SPAN BRIDGES IN ONTARIO UTILIZING SLIDING ISOLATION BEARINGS**
Ronald J. Watson
R.J. Watson, Inc.
USA

15:30 - 15:50 **IMPACT OF HYDRATION HEAT ON THE DIAPHRAGM ZONE OF A RIGID FRAME BRIDGE - A CASE STUDY**
Zhao Liu, Hua Zang, Wusong Wen, Xinya Zhou
Southeast University
China

15:50 - 16:10 **AUTOMATED WELDLESS GRATING FOR BRIDGE DECKS AND THE LIKE**
Dennis M. Imm
Stargrate Systems, Inc.
USA

15:50 - 16:10 **FE ANALYSIS WITH SMEARED CRACK MODEL FOR CRACK WIDTH EVALUATION IN CONTINUOUS COMPOSITE GIRDERS**
Okui, Y., Honda, T., Khan, Q., Nagai, M
Saitama University
Japan

16:10 - 16:30 **PROBABILISTIC FATIGUE ASSESSMENT OF POST-WELD TREATED TUBULAR TRUSS BRIDGES**
Scott Walbridge, Alain Nussbaumer
Ecole Polytechnique Fédérale de Lausanne (EPFL)
Switzerland

16:10 - 16:30 **DETECTION AND LOCALISATION OF DAMAGE IN BRIDGE MODEL BY SPATIAL WAVELET BASED APPROACH**
Mallikarjuna Reddy, D, Jaya Prakash, G and Swarnamani, S.
Vedha Engineering & Technology Private Limited

16:30-16:50 **DESIGN OF PRESTRESSED CONCRETE BRIDGE GIRDERS MADE WITH HIGH TO ULTRA HIGH PERFORMANCE FIBRE REINFORCED CONCRETE**
 S. Braike, B. Massicotte and J.-P. Charron
 École Polytechnique de Montréal
 Canada

16:30 - 16:50 **DESIGN AND CONSTRUCTION OF HECHANG BRIDGE, QUANZHOU, CHINA**
 Gui-han Peng, Bao-chun Chen
 Fuzhou University
 China

PARALLEL SESSION 6

15:30 - 16:50 **THEME 2: NEW CONSTRUCTION**
 Room C

PARALLEL SESSION 6

15:30 - 16:50 **THEME 3: SEISMIC DESIGN**
 Room D

15:30 - 15:50 **ANALYSIS AND PREVENTION OF IN-CONSTRUCTION CRACKS OF PRESTRESSED CONCRETE BRIDGES USING SPAN-BY-SPAN TECHNIQUE**
 Zhao Liu, Cao Sanpeng, Qingzhong You, Shouchan Wu, Jianlin Zhou
 Southeast University
 China

15:30 - 15:50 **CONFINEMENT REINFORCEMENT FOR BRIDGES IN MEDIUM TO HIGH SEISMICITY ZONE BASED ON NEW CSA A23.3-04 APPROACH**
 Frédéric Legeron, Aurélie Vivier, Md. Neaz Sheikh and Patrick Paultre
 Université de Sherbrooke
 Canada

15:50 - 16:10 **LARGE CONCRETE PRECAST BOX GIRDERS ALONG THE NEW ITALIAN HIGH SPEED RAILWAY LINES**
 Marco Petrangeli, Camillo Andreocci, Francesco Magnorfi,

15:50 - 16:10 **PERFORMANCE BASED RETROFIT OF BRIDGE PIERS WITH CFRP: TEST DESIGN, MODEL UPDATING, PSEUDO-DYNAMIC TESTING**
 Nathalie Roy, Patrick Paultre, Jean Proulx, Thien Phu Le, Benedikt Weber

	Marco Orlandini, Giosafatte Geremia University of Pescara Italy		Université de Sherbrooke Canada
16:10 - 16:30	UP-TO-DATE CONCEPTS OF OVERPASSES ON MOTORWAYS Milenko Pržulj DDC Consulting & Engineering Ltd. Slovenia	16:10 - 16:30	FOUNDATION MODELING FOR SEISMIC DESIGNS OF MAJOR TOLL BRIDGES IN CALIFORNIA Hubert K. Law and Ignatius P. Lam Earth Mechanics, Inc. USA
16:30 - 16:50	CONSTRUCTION OF MIDORI-BRIDGE Hirayoshi Imai, Koji Ukai, Shinji Yamanobe, Fujio Yokota Kawada Construction Co., Ltd. Japan	16:30 - 16:50	—

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THURSDAY, AUGUST 24TH, 2006 **Page 43**

	PARALLEL SESSION 6		PARALLEL SESSION 6
15:30 - 16:50	THEME 1: INNOVATIVE DESIGN Room E	15:30 - 16:50	THEME 7: ADVANCED MATERIALS IN BRIDGES Room F
15:30 - 15:50	DESIGN OF CONTINUOUS DOUBLE COMPOSITE HIGH-SPEED RAILWAY BRIDGES Chang-Su Shim, Hyun-Ho Kim, Pil-Goo Lee Chung-Ang University South Korea	15:30 - 15:50	INVESTIGATION OF AN INNOVATIVE FRP- REINFORCED BRIDGE DECK SYSTEM D.Tardif, K.W. Neale, M. Demers, A.R. Zaki and G.Tadros Université de Sherbrooke Canada

15:50 - 16:10	<p>NEW TYPE OF COMPOSITE BRIDGE STRUCTURE WITH CONCRETE FILLED STEEL TUBE GIRDER</p> <p>Jae-Yoon Kang, Eun-Suk Choi, Won-Jong Chin, Jung-Woo Lee, Byung-Suk Kim</p> <p>Korea Institute of Construction Technology</p> <p>South Korea</p>	15:50 - 16:10	<p>ENERGY EFFICIENT INTEGRATED HEATING SYSTEM FOR BRIDGE DECK DE-ICING</p> <p>Pal S. Mangat; David G Catley</p> <p>Sheffield Hallam University</p> <p>UK</p>
16:10 - 16:30	<p>A STUDY ON MULTI-STEPWISE THERMAL PRESTRESSING METHOD FOR STEEL-CONCRETE COMPOSITE BRIDGES</p> <p>Sang-Hyo Kim, Jin-Hee Ahn, Jun-Hwan Kim, Hyung-Ju Kim</p> <p>Yonsei University</p> <p>South Korea</p>	16:10 - 16:30	<p>GLASS FRP JACKETING OF PRESTRESSED CONCRETE BEAMS</p> <p>M. Demers, P. Labossière and C. Mercier</p> <p>Université de Sherbrooke</p> <p>Canada</p>
16:30 - 16:50	<p>STANDARDIZATION OF BRIDGE DETAILING</p> <p>Jure Radic, Zlatko Savor, Alex Kindij</p> <p>University of Zagreb</p> <p>Croatia</p>	16:30 - 16:50	<p>UTILIZATION OF GFRP-REINFORCED CONCRETE PANELS FOR BOX GIRDER BRIDGES</p> <p>T. Sabrah, H. Marzouk and A. Hussein</p> <p>Memorial University of Newfoundland</p> <p>Canada</p>

15:30 - 16:50	<p>PARALLEL SESSION 6</p> <p>THEME 5: REHABILITATION AND RETROFITTING</p> <p>Room G</p>	15:30 - 16:50	<p>PARALLEL SESSION 6</p> <p>THEME 4 – MANAGEMENT OF BRIDGE ASSETS</p> <p>Room H</p>
15:30 - 15:50	<p>EFFECTIVENESS OF VARIOUS DEBRID SYSTEMS</p>	15:30 - 15:50	<p>4D MODELING IN BRIDGE LIFECYCLE</p>

15:30 - 15:50	<p>EFFECTIVENESS OF VARIOUS REPAIR SYSTEMS FOR FLEXURAL STRENGTHENING OF STEEL-CONCRETE COMPOSITE GIRDERS</p> <p>Nora Ragab and Raafat El-Hacha</p> <p>University of Calgary</p> <p>Canada</p>	15:30 - 15:50	<p>4D MODELING IN BRIDGE LIFE CYCLE MANAGEMENT SYSTEMS</p> <p>Cheng Zhang and Amin Hammad</p> <p>Concordia University</p> <p>Canada</p>
15:50 - 16:10	<p>THE ART AND SCIENCE OF RETROFITTING HISTORIC ARCH BRIDGES</p> <p>Dr. Sherif S. Morcos, and Mr. Boris Reznikov</p> <p>HDR Engineering, Inc.</p> <p>USA</p>	15:50 - 16:10	<p>LOCATION-BASED MOBILE BRIDGE INSPECTION SYSTEM</p> <p>Yongxin Hu, Amin Hammad</p> <p>Concordia University</p> <p>Canada</p>
16:10 - 16:30	<p>THE USE OF GLASS FIBRE-REINFORCED POLYMER FOR RETROFITTING SPLIT TIMBER STRINGERS</p> <p>Sara M. Gómez and Dagmar Svecova</p> <p>University of Manitoba</p> <p>Canada</p>	16:10 - 16:30	<p>BRIDGE MANAGEMENT FOR MUNICIPALITIES: A COMMON SENSE APPROACH</p> <p>John Stephenson</p> <p>Regional Municipality of Waterloo</p> <p>Canada</p>
16:30 - 16:50	<p>STRENGTHENING FULL-SCALE DAMAGED PRECAST/PRESTRESSED CONCRETE DOUBLE-TEE GIRDERS USING CFRP SHEETS</p> <p>Khaled Sennah, Antonio Cofini, Mohamed Attalla, Ayman M. Okeil</p> <p>Ryerson University</p> <p>Canada</p>	16:30 - 16:50	<p>DESIGN AND CONSTRUCTION OF A FULL-WIDTH, FULL-DEPTH PRECAST CONCRETE DECK SLAB ON STEEL GIRDER BRIDGE</p> <p>N. David LeBlanc</p> <p>Totten Sims Hubicki Associates</p> <p>Canada</p>

PARALLEL SESSION 0

15:30 - 16:50

THEME 11: AESTHETICS

Room J

15:30 - 15:50

**THE EAST 153RD STREET BRIDGE – NEW YORK
CITY'S FIRST VEHICULAR CABLE STAYED BRIDGE**

Roly Parroco, Alim Baycora, Jeffrey Han

DMJM Harris

USA

15:50 - 16:10

**PORT MOODY CABLE-STAYED
PEDESTRIAN OVERPASS**

Leslie Mihalik, Dejan Erdevicki

Associated Engineering Ltd.

Canada

16:10 - 16:30

**BRIDGE DESIGN AND AESTHETICS IN
FAST CONSTRUCTION IMPLEMENTED ON
MOTORWAYS IN CROATIA**

Petar Sesar, Ana Krecak

Civil Engineering Institute of Croatia

Croatia

16:30 - 16:50

**COMPARATIVE ANALYSIS OF COMPOSITE
OVERPASSES**

Jure Radic, Zlatko Savor, Gordanja Hrelja, Nijaz
Mujkanovic, Andjelko Vlastic

Civil Engineering Institute of Croatia

Croatia

FRIDAY, AUGUST 25TH, 2006

Page 46**FRIDAY, AUGUST 25TH, 2006****OPENING SESSION**

8:30 - 10:00

KEYNOTE LECTURES

Ballroom

8:30 - 9:15

**DEVELOPMENT OF COMPOSITE TRUSS BRIDGE
USING SUSPENSION STRUCTURE**

Akio Kasuga

Sumitomo Mitsui Construction

Japan

9:15 - 10:00

EXTREME BRIDGE OPERATING CONDITIONS

Glen P. Carlin

The Jacques Cartier and Champlain Bridges Inc.

Canada

	PARALLEL SESSION 7		PARALLEL SESSION 7
10:20 - 12:00	THEMES 10 AND 11: HISTORICAL BRIDGES AND AESTHETICS Room A	10:20 - 12:00	THEME 6: ANALYSIS Room B
10:20 - 10:40	A HISTORICAL REVIEW OF BRIDGE AESTHETICS IN ONTARIO Roger Dorton, Mark Langridge, Edward Li Buckland & Taylor Ltd. Canada	10:20 - 10:40	DESIGN OF CONTINUOUS BRIDGES WITH NU-GIRDERS Gerd Birkle, Walter H. Dilger and James Hanley Stantec Consulting Ltd Canada
10:40 - 11:00	DEVELOPMENT OF THE "AESTHETIC GUIDELINES FOR BRIDGES" FOR THE PROVINCE OF ONTARIO Edward Li, Iqbal Husain Morrison Hershfield Limited Canada	10:40 - 11:00	STRUCTURAL EVALUATION OF A TWO-CELL CAST-IN-PLACE CONCRETE BOX GIRDER BRIDGE Brad R. Craig, F. Michael Bartlett University of Western Ontario Canada
11:00 - 11:20	REHABILITATION OF THE HISTORIC WOODROW WILSON MEMORIAL BRIDGE Evan C. Lowell, Richard C. Ferguson Lichtenstein Consulting Engineers, Inc. USA	11:00 - 11:20	BEHAVIOR AND LOAD-CARRYING MECHANISM OF RC HIGHWAY BRIDGE DECK SLABS WITH STRAP Tomio Yasuoka, Atsuhiko Machida, Samitha Jayakody Kajikawa Civil Engineering Consultant Co., Ltd. Japan
11:20 - 11:40	IMPROVING INFRASTRUCTURE WHILE PRESERVING HISTORY: WASHINGTON BRIDGE NO. 200 REPLACEMENT Bharat Patel Vanasse Hangen Brustlin, Inc. USA	11:20 - 11:40	MODELING OF EXISTING MULTI-SPAN SIMPLY SUPPORTED STEEL GIRDER BRIDGES UNDER SEISMIC LOADS Bryant G. Nielson and Reginald DesRoches Georgia Institute of Technology USA
11:40 - 12:00	WROUGHT-IRON BOWSTRING ARCH-TRUSS BRIDGES: THE ONE-HIT WONDER OF THE 1870S	11:40 - 12:00	THE SOIL PRESSURE BEHIND INTEGRAL BRIDGE ABUTMENTS

F. Michael Bartlett and Dana R. Tessler
 University of Western Ontario
 Canada

BRIDGE ADJUTMENTS

Ming Xu
 University of Southampton
 UK

FRIDAY, AUGUST 25TH, 2006

	PARALLEL SESSION 7		PARALLEL SESSION 7
	THEME 7: ADVANCED MATERIALS IN BRIDGES		THEME 4: MANAGEMENT OF BRIDGE ASSETS
10 :20 - 12 :00	Room C	10:20 - 12:00	Room D
10:20 - 10:40	NEW PARAPET WALL ON EXISTING DECK USING GFRP FOR THE REHABILITATION OF GLENDALE AVENUE BRIDGE REGIONAL ROAD 89 OVER TWELVE MILE CREEK IN THE CITY OF ST. CATHARINES IN ONTARIO, CANADA Brian Ellis, Duane VanGeest and Ralph Scholz ELLIS Engineering Inc. Canada	10:20 - 10:40	MULTI-CRITERIA AND STOCHASTIC MANAGEMENT OF BRIDGE DECKS G. Morcouc and Z. Lounis University of Nebraska - Lincoln USA
10:40 - 11:00	PEDESTRIAN BRIDGES USING RECTANGULAR FRP BOX SECTIONS ACTING COMPOSITELY WITH CONCRETE SLABS Amir Fam Queen's University at Kingston Canada	10:40 - 11:00	DETERMINATION OF OPTIMAL INTERVENTION STRATEGIES FOR MULTIPLE BRIDGES DURING CATCH-UP PERIODS Bryan T. Adey, Rade Hajdin, Eugen Brühwiler Infrastructure Management Consultants Switzerland
11:00 - 11:20	DYNAMIC RESPONSE OF FRP SANDWICH BRIDGES UNDER VEHICLE LOADING Yin Zhang, C. S. Cai and Xiaomin Shi Louisiana State University	11:00 - 11:20	OPTIMAL SINGLE STAGE STRATEGIES FOR BRIDGES Bryan T. Adey, Rade Hajdin, Eugen Brühwiler Infrastructure Management Consultants Switzerland
		11:20 - 11:40	RELIABILITY-BASED ASSESSMENT OF SAFETY FOR EXISTING BRIDGES S. G. D. H.

	USA		Stuart G. Reid University of Sydney Australia
11:20-11:40	STATIC AND FATIGUE PERFORMANCE OF CONCRETE BRIDGE DECK SLABS REINFORCED WITH GLASS FRP BARS Brahim Benmokrane, Ehab El-Salakawy, Amr El Ragaby, and Sherif El Gamal Université de Sherbrooke Canada	11:40 - 12:00	—
11:40 - 12:00	MECHANICALLY-FASTENED FRP DECKING SYSTEM Dan Richards ZellComp, Inc. USA		

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	PARALLEL SESSION 7		PARALLEL SESSION 7
	THEME 11: AESTHETICS		THEME 7: ADVANCED MATERIALS
10:20 - 12:00	Room E	10 :20 - 12 :00	IN BRIDGES Room F
10:20 - 10:40	NEW CROTON DAM SPILLWAY BRIDGE Ronald T. Roman Hardesty & Hanover, LLP USA	10:20 - 10:40	SHEAR DESIGN AND BEHAVIOR OF HIGH-STRENGTH CONCRETE BRIDGE GIRDERS Daniel A. Kuchma, Shaoyun Sun, and Neil M. Hawkins University of Illinois USA
10:40 - 11:00	AESTHETIC ENHANCEMENTS OF THE PETITCODIAC RIVER BRIDGE NO. 1 Bruce Boyd & Krista MacDonald New Brunswick Department of Transportation Canada	10:40 - 11:00	SHEAR BEHAVIOR OF CONCRETE BRIDGE GIRDERS REINFORCED WITH NEW CARBON FRP STIRRUPS B. Benmokrane, E. El-Salakawy, E. Abdul Mageed, A. El Sayed, and G. Desgagné Université de Sherbrooke Canada
11:00 - 11:20	THE MERGING OF FORM AND FUNCTION PITS AND HIGHPOINTS IN AESTHETIC DESIGN OF THE GUADALUPE COUNTY BRIDGES Joan D. Bowser and Morris Muskett	11:00 - 11:20	LIVE LOAD TEST OF A SPS DECK BRIDGE

	New Mexico Department of Transportation USA		Devin K. Harris, Tommy Cousins, Thomas M. Murray & Angelo Ferro Virginia Tech USA
11:20 - 11:40	—		
11:40 - 12:00	—	11:20 - 11:40	EFFECT OF LOW AND HIGH TEMPERATURE ON THE TRANSVERSE THERMAL EXPANSION OF FRP BARS EMBEDDED IN CONCRETE Radhouane Masmoudi, Ali Zaidi Université de Sherbrooke Canada
		11:40 - 12:00	—

	PARALLEL SESSION 7		PARALLEL SESSION 7
	THEME 5: REHABILITATION AND RETROFITTING		THEME 9: REPAIR, MAINTENANCE AND EVALUATION
10:20 - 12:00	Room G	10:20 - 12:00	Room H
10:20 - 10:40	RETROFITTING OF BRIDGE GIRDERS Fathalla Shalouf and Syed Iftikhar Ahmad University of Ottawa Canada	10:20 - 10:40	SIDE-BY-SIDE BOX-BEAM BRIDGE - PERFORMANCE AND DESIGN ISSUES Upul Attanayake, Haluk M. Aktan Wayne State University USA
10:40 - 11:00	FATIGUE STUDY OF THE I-435 MISSOURI RIVER BRIDGE John P. Brestin, Jonathan C. McGormley, and Ghanshyam Gupta	10:40 - 11:00	TESTING AND MONITORING THE PERFORMANCE OF THE QUEENSWAY PEDESTRIAN AND CYCLIST BRIDGE Anthony G. Kerali

Wiss, Janney, Elstner Associates, Inc.
USA

Anthony S. Karam
Makerere University
Uganda

11:00 - 11:20	IMPACT BEHAVIOUR OF CONCRETE BRIDGE DECK SLABS WITH COMPOSITE ULTRA-HIGH PERFORMANCE FIBER REINFORCED CONCRETE (UHPFRC) OVERLAY Katrin Habel, Paul Gauvreau University of Toronto Canada	11:00-11:20	—
		11:20 - 11:40	—
		11:40 - 12:00	—
11:20 - 11:40	—		
11:40 - 12:00	—		

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FRIDAY, AUGUST 21, 2008 **Page 51**

PARALLEL SESSION 7

10:20 - 12:00 **THEME 8: INSTRUMENTATION, TESTING AND MONITORING**
Room J

10:20 - 10:40 **REMOTE SECURITY MONITORING OF HISTORIC COVERED BRIDGES**
Michael D. LaViolette, Brent Phares, James Vis,
Terry Wipf, Todd Hagen, Joe Murphy

Iowa State University

USA

10:40 - 11:00

**RESPONSE OF AN INTEGRAL ABUTMENT BRIDGE
TO TEMPERATURE VARIATIONS**

Samir N. Shoukry , GergisW.William and MouradY. Riad

WestVirginia University

USA

11:00 - 11:20

**NON-DESTRUCTIVE TESTING OF REINFORCED
CONCRETE BRIDGE DECKS BY THE
GPR TECHNIQUE**

Jamal Rhazi, S. Laurens, O. Dous

Université de Sherbrooke

Canada

11:20 - 11:40

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11:40 - 12:00

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SITE PLAN



