ENT ADVANCES IN BRIDGE INEERING AND STRUCTUR LTH MONITORING Totorto, April 28-29-2009 Saskatoon, April 30, May 1st, 2009

Course Description

The objective of this 2-day course is to acquaint consulting, government and research engineers, instructors and graduate students with the latest advances that have taken place in the field of short and medium span bridges with special emphasis on the monitoring of their health by means of state-of-the-art electronic and photonic sensors and the use of fibre reinforced polymers in the design and rehabilitation of bridges.

The course will be complemented by a recently published book Recent Advances in Bridge Engineering written by Aftab Mufti, Baidar Bakht and Leslie Jaeger, who have been active in research in bridge engineering for several decades. A CD containing the latest versions of five analysis and design computer programs is appended to the book. The course will provide hands-on training in the use of these programs. The price of the book (\$70 plus tax) is included in the registration fee at a 30% discount.

PROGRAM

- Introduction to Structural Health Monitoring and Civionics Engineering
- Philosophy of bridge design, vehicle loads and bridge weighing-in-motion systems
- Bridge testing, structural health monitoring systems and data interpretation
- · Arching in concrete deck slabs under static and dynamic loads. Field Examples of design of SHM system for **Bridge Decks**
- · Simplified and rigorous methods of bridge analysis
- · New forms in timber bridges
- Soil-steel bridges with shallow and deep corrugated metal plates
- · Fibre reinforced polymers in design and rehabilitation of concrete and timber bridges. Also, discussion on SHM system for innovative structures.
- · Sensor needs in SHM of bridges
- Aesthetics of Bridges

TORONTO

Days Inn Hotel Toronto Downtown 30 Carlton Street Toronto, ON M5B 2E9 416-977-6655

SASKATOON

Radisson Hotel 405 29th Street E Saskatoon, SK S7K 6X6 306-665-3322

CALGARY

The Blackfoot Inn 9540 Blackfoot Trail SE Calgary, AB T2H 2B5 403-259-1709

Professor of Civil Engineering, University of Manitoba, and President of ISIS Canada Research Network

President, JMBT Structures Research Inc., and Adjunct Professor of Civil Engineering at the universities of Toronto and Manitoba

In addition to the above two speakers, one of the following will lecture depending upon the location of the course

John Newhook, Ph.D., P.Eng.

SPEAKERS

Associate Professor of Civil Engineering, Dalhousie University

Shamim Sheikh, Ph.D., P.Eng.

Professor of Civil Engineering, University of Toronto

Baidar Bakht, P.Eng., D.Sc., FCSCE, FCAE

Aftab Mufti, P.Eng., Ph.D., FCSCE, FCAE

Gamil Tadros, Ph.D., P.Eng.

SPECO Engineering Ltd.

EDMONTON

Campus Tower Suite Hotel 11145 87 Avenue Edmonton, AB T6G 0Y1 780-439-6060

VANCOUVER

Plaza 500 Hotel 500 West 12th Avenue Vancouver, BC V5Z 1M2 604-873-1811

Calgary, May 12, 73, 2009

Edmonton, May 1 de 15, 2009

Vancouver, May 21-22.

This course is endorsed by







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GROUP (5 and more) and student rates are available upon request.

JOIN CSCE now at the introductory fee of \$95 + taxes and pay the CSCE member fee at all CSCE activities held during the coming year.

Please e-mail, fax or mail this form along with your payment to:

Mahmoud Lardjane
Programs Manager
Canadian Society for
Civil Engineering
4920 de Maisonneuve Blvd
W., Suite 201
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e-mail: mahmoud@csce.ca
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Any registrant may substitute another person eligible for the same fee at any time. Full refund will be issued when a written notice of withdrawal is received 2 weeks before the event. An administrative fee is deducted at this time. We regret that there will be no refunds issued past this date. In the event that CSCE must cancel the program, the participant will receive a full refund for workshop fees.

Proud Supporter

Signature



	RAB REGISTRATION	
	☐ Calgary – May 12–13, 2009 ☐ Edmonton – May 14–15, 2009	☐ Vancouver – May 21–22, 2009
	gistration – 8:30 Start of session – 4:30 E	ind of session
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CSCE Membership Number		
	evaluate it as a success if it responds to my	following objective(s)
authorize CSCE to send my pa	rticipation record to EIC for CE units re	egistration. 🗆 YES 🗆 NO
Please check as appropriate to you. Dates refer to receipt of registration materials by CSCE. Payment must be received to confirm your place. Refreshments, lunch, course materials and book are included.		
CSCE Member	\$670 (+ tax \$33.50) = \$703.50	\$720 (+ \$36) = \$756.00
Newly Enrolling CSCE Member	\$790 (+ \$39.50) = \$829.50	\$840 (+ \$42) = \$882.00
Non-CSCE Member	\$770 (+ \$38.50) = \$808.50	\$820 (+ \$41) = \$861.00
Registrant Signature	Registration Date	
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