CSA-S806: Design and Construction of Building Components with Fibre-Reinforced Polymers
A One-Day Workshop
Calgary, AB-December 4, 2003 8:00-4:30
The Blackfoot Inn, 5940 Blackfoot Trail SE, Calgary, AB T2H 2B5

Guide CSA-S806

Course Description
Since fibre-reinforced polymers (FRP) are increasingly gaining acceptance as an alternative to traditional reinforcing materials in aggressive environments, the Canadian Standards Association has developed the world’s first full standard, called “S806-02: Design and Construction of Building Components with Fibre-Reinforced Polymers,” for the design and retrofit of building components with FRP reinforcement. This course will cover the background to the various code provisions, define their scope and through detailed examples demonstrate their applications. The standard deals with reinforced and prestressed internal reinforcement consisting of bars and grids and with external reinforcement comprising surface bonded sheets and laminates. It covers the ultimate limit state analysis and design of members under flexure, axial load or shear as well as serviceability limit state requirements such as crack width and deflection. The detailed provisions of this standard make it possible now to apply FRP in a systematic and safe way in the retrofit, strengthening and design of new building structures.

Special Offer
A purpose-designed binder containing comprehensive information will be provided to each participant, which will include charts, graphs, and tables that are included in the presentation of each topic. Adequate time for questions will be provided.

AGENDA

8:00-  Registration
8:30-  General code philosophy, limit states and other background material
G. Razaqpur
8:45-  Material properties, load and resistance factors
B. Benmokrane/ G. Razaqpur
9:45-  Coffee Break
10:00-  Internally reinforced concrete design: flexure, shear, deflection, crack width, bond
B. Benmokrane/ G. Razaqpur
11:30-  Construction issues
G. Razaqpur/ D. Lamb
12:00-  Lunch
1:00-  Prestressed concrete design
G. Razaqpur/ D. Svecova
2:30-  Coffee Break
2:45-  Column confinement, column retrofit by wrapping
M. Saatcioglu/ D. Svecova
3:30-  Retrofit for enhanced flexural and shear strength, seismic retrofit
M. Saatcioglu/ D. Lau
4:30-  End

CONTACT INFO

INFORMATION AND REGISTRATION
Kar-Wei Cho
Events Coordinator CSCE
T: (514) 933-2634 ext. 29
F: (514) 933-3504
E-mail: events@csce.ca

This course is recognized by

Proud Supporter

www.csce.ca
REGISTRATION

Please fax or mail this form with your payment to: Kar-Wei Cho, Events Coordinator, CSCE, 4920 de Maisonneuve Blvd.W., Suite 201, Montreal, QC H3Z 1N1. F: (514) 933-3504

Calgary, December 4, 2003

Name ___________________________ Date __________________

Company ________________________________________________

Address ________________________________________________

E-mail ________________________________________________

CSCE Membership Number __________________________

(1) My Professional Specialty is __________________________

(2) At the end of the session, I will evaluate it as a success if it responds to my following objective(s) __________________________

I authorize CSCE to send my participation record to EIC for CE units registration. □ YES □ NO

PAYMENT

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 manual are included.

<table>
<thead>
<tr>
<th>Registration Fees</th>
<th>Early Registration (On or before Nov. 3, 2003)</th>
<th>Open Registration (After Nov. 3, 2003)</th>
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<tbody>
<tr>
<td>CSCE Member</td>
<td>$250 + tax = $267.50</td>
<td>$300 + tax = $321.00</td>
</tr>
<tr>
<td>Newly Enrolling CSCE Member</td>
<td>$300 + $90 + tax = $417.30</td>
<td>$350 + $90 + tax = $470.80</td>
</tr>
<tr>
<td>Non-CSCE Member</td>
<td>$420 + tax = $449.40</td>
<td>$470 + tax = $502.90</td>
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Registrant Signature ___________________________ Registration Date __________________

Method of Payment (Check as appropriate to you)

☐ VISA ☐ MASTERCARD ☐ CHEQUE ENCLOSED (payable to Canadian Society for Civil Engineering)

Credit Card Number ___________________________ Expiry Date __________________

MEMBERSHIP APPLICATION

PLEASE PRINT CLEARLY.

Name ___________________________________________ Date of Birth ___________________ Sex □

Indicate Desired Mailing Address

☐ Home Address

T _________ F _________ E-Mail ___________________________

☐ Employer Bus. Title ___________________________

T _________ F _________ E-Mail ___________________________

Professional Registration / Memberships Held Province __________________________

Are you a member of any other Engineering Societies? If so, give details:________

SOCIETY ___________________________ PROVINCE(S) ___________________________ MEMBERSHIP GRADE ___________________________

Academic Record/Work Experience (Please submit C.V. & photocopies of certificates or transcripts)

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<tr>
<th>TECHNICAL DIVISION MEMBERSHIPS – Select up to three fields in order of preference, (i.e. 1, 2, 3)</th>
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<tr>
<td>Computer Applications Structural Transportation</td>
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<tr>
<td>Construction Environmental</td>
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Membership Grades

Member: normally holds a recognized educational qualification in Civil Engineering at the level recognized by a provincial Association of Professional Engineers and whose competence has been established by at least four years of professional experience.

Associate Member: normally holds an engineering degree from a recognized university but has not yet acquired the qualifications for member status related to the extent of professional practice.

Professional Affiliate: technologists, technicians and other persons working in the field of Civil Engineering.

Graduate Student Member: those engaged in full time postgraduate studies at a recognized Canadian university may be eligible.

Signature ___________________________ Date __________________

Enrollment is limited to assure interaction is personalized and encouraged.

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

Join CSCE now at the introductory price of $90 + taxes and pay the CSCE member fee at this and other workshops during the coming year.