Extreme Concrete

Next to water, concrete is the most prevalent material on the face of the Earth. It is synonymous with durability, quality and performance. Every day people are pushing the material to its limits and beyond. As design demands of today's projects become more complex, professionals turn to concrete – Extreme Concrete! This seminar features industry experts sharing how they take concrete to the extreme.

Program

7:15 am **Registration & Continental Breakfast**
Turnberry Room

7:50 am **Opening Remarks**
Dean Stroschein, President MCC

8:00 am **Extremely Ductile Concrete**
Dr. Victor Li, University of Michigan

Concrete is not known to be ductile. This seminar introduces a new type of concrete (ECC) that behaves more like ductile metal than brittle concrete under excessive loading. We will explore how the extreme tensile ductility in ECC can suppress cracking, thus enhancing safety and durability of concrete infrastructure. Recent full scale applications of this novel material will be highlighted.

9:15 am **Extreme Concrete Utilizing Color & Texture**
Chris Becker, Becker Concrete

This presentation will explore numerous projects where the use of colored & textured concrete were selected for applications ranging from paving, flooring, sculpture, countertops, sinks and other 3 dimensional castings.

10:15 am **Break** and **Concrete Sculpture Judging**

10:30 am **100 Year Design Life High Performance Concrete in an Extreme Environment Overview and Update on the Confederation Bridge**
Robert Munro, P.E., Lafarge

The Confederation Bridge is one the great engineering feats of all time. Constructed in the extremes of the Canadian Maritimes, the bridge was designed to withstand the harshest conditions nature could present. This presentation revisits this landmark project to see how this bridge is surviving the elements.

12 noon **Lunch** (included w/registration) and **Final Judging & Bidding for Sculptures**

1:00 pm **University of Minnesota Concrete Canoe Team Update**
Rita Lederle, University of Minnesota
Ken Hansen, University of Minnesota

The presentation will feature a brief overview of the Concrete Canoe Team, its history and an introduction to the format of the competition. It will also unveil the design of this year's canoe and its innovative pre-cast and post-tensioned construction.

1:30 pm **Extreme Makeover Home Edition – The Concrete Foundation**
John Lee, P.E., Cemstone Companies

On September 22, 2006, the lives of Teri Lee's children changed forever. This highly publicized case of domestic violence and subsequent adoption caught the attention of ABC's Extreme Makeover – Home Edition, and on August 28, 2007, this extended family moved into their new home which was viewed by millions on November 25, 2007. This presentation will discuss how the concrete foundation was manufactured, placed and ready for framing in less than 8 hours.

2:00 pm **Sculpture Awards & Auction Results**

2:15 pm **Adjourn**

Registration

Location:
Midland Hills Country Club
2001 Fulham Street
St. Paul, MN 55113

Date of Seminar:
Thursday, March 20, 2008

Cost:
MCC Members: $95/person, includes Seminar, handouts and lunch
Non-Members: $135/person, includes Seminar, handouts and lunch. Also includes a ½ year Individual MCC Membership
Students: $30/person, includes Seminar, handouts and lunch

Continuing education hours: (4.5) available.

_____
Name

_____
Company

_____
Address

_____
City, State, ZIP

_____
Phone

Send registration form with check by Friday, **March 14, 2008** to:
MN Concrete Council
771 Mound Avenue
St. Paul, MN 55126
No refunds after March 14
No refunds for no-shows

Concrete Sculpture Contest Entrance Form

Who can enter?

1. Corporate (5 entries) or Individual Members (1 entry)
2. University of MN Concrete Canoe Team
   - Students limited to 5 entries
3. Local 633 Cement Masons Apprentices
   - Apprentices limited to 5 entries

What type of sculpture?

1. Be creative: nothing offensive, no defined theme, have fun!
2. Examples: wall hangings, decorative sculptures, lawn & garden,
3. Size and Weight Limitations: No larger than **3'x3'x3'**, and **80 lbs.** or under.
4. **Other Restrictions:**
   - Sculpture must be made of at least 90% concrete; it must be **CAST IN PLACE,** contain Portland Cement and at least one aggregate (no minimum size aggregate limitations).
   - No EFIS type buildup procedures allowed,
   - Sculpture must be made by eligible entrant not bought at a lawn & ornament store,
   - All other types of cementitious materials can also be used,
   - Sculpture must be entered by its creator.

_____
Name

_____
Company

_____
Phone

Will you allow MCC to auction your sculpture for the MCC Scholarship Fund? ❑Yes ❑No

Please reply by March 14, 2008 (or email information to Jacki.Kurshoff@visi.com)

Minnesota Concrete Council
771 Mound Avenue
St. Paul, MN 55126

FIRST CLASS MAIL

MINNESOTA CONCRETE COUNCIL

Dedicated to
Cast-In-Place Concrete

Nineteenth Annual Seminar

Thursday, March 20, 2008

Seminar Co-Chairs:

Christopher Perego
BASF Building Systems

Dylan Van Avery
American Engineering Testing