

# 2009/2010 PROGRAM

## November 19, 2009 Dinner Meeting

*Sponsored by Stantec and the Canadian Wood Council  
Partnering with the Consulting Engineers of Alberta*

### **"Popsicle Stick Bridge Competition"**

See [www.cscecalgary.ca](http://www.cscecalgary.ca) for rules and regulations.  
Corporate entries are welcome.

### **"Fish Creek Park Flood Restoration – A Suitable Application of Stress- Ribbon Bridges"**

*by Gerd Birkle, Ph.D., P.Eng.*

#### Abstract:

In June 2005 a flood destroyed or heavily damaged 9 of 15 pedestrian structures in Fish Creek Park and also rendered most of the park's pathways destroyed or damaged which made large portions of the park unusable to the public. In December 2005 Stantec Consulting Ltd. was engaged by Alberta Community Development to assess the damage and to develop a strategy to restore the park. During the reorganization of the pathway system the need for 4 new bridges was identified, which needed to be durable, resistant to floods, low in maintenance, and constructible in an environmentally sensitive area. A Stress-Ribbon Bridge was identified to be a suitable bridge type for these criteria. The presentation will concentrate on the design and construction challenges of this bridge type.

#### About the Speaker:

Dr. Birkle is a Structural Engineer with Stantec Consulting Ltd. Since 2003 Gerd has worked on over 10 bridges in the roles of design engineer, inspector, contract administrator, and project manager. Gerd has also designed and managed several buildings projects such as the Calgary Courts Centre, the Foothills Hospital, and the South Health Campus.

Gerd was born in Germany where he obtained his engineering degree at the University of Stuttgart in 1999. He completed his PhD in Structural Engineering at the University of Calgary in 2004.

The presentation is followed by:  
**"Annual General Meeting of  
the CSCE Calgary Section"**  
(optional attendance)

## **Schedule**

This Dinner Meeting will be held at the  
Blackfoot Inn (5940 Blackfoot Trail SE)

#### Dinner Meeting Schedule:

Popsicle Stick Bridge  
Competition – 5:30 pm  
Dinner – 6:30 pm  
Presentation – 7:15 pm  
AGM – 8:15 pm

#### Dinner Meeting Rates:

Students – \$10.00  
CSCE Members – \$25.00  
Non-Members – \$35.00  
Season Pass – \$125.00

## **Other Upcoming Events:**

### Thursday January 21, 2010

Wind Energy – An Industry Update  
by Peter Bubik, P.Eng., PB Power Inc.  
Partner: CGBC

### Thursday February 18, 2010

Solar Decathlon  
by David Silburn, SAIT Polytechnic  
Partner: AAA

Also: Annual Graduate Student Poster Contest

### Thursday March 18, 2010

Construction Shoring  
by Douglas Pelly, P.Eng., Golder Associates Ltd.  
Partner: CGS

### Thursday April 15, 2010

Hydrotechnical Engineering  
by Willem Veldman, P.Eng., Matrix Solutions Inc.  
Partner: CEA

Please register your attendance  
online at  
[www.cscecalgary.ca](http://www.cscecalgary.ca)  
at least one day prior to event.

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CALGARY



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