

2008/09 PROGRAM

NOTICE OF FORTHCOMING EVENT

The CSCE is a learned society intended to develop and maintain high standards of civil engineering practice in Canada and to enhance the public image of the civil engineering profession.

The Canadian Society for Civil Engineering
La Société canadienne de génie civil

Thursday, October 30, 2008 Workshop

***"Introduction to
Blast/Structures Assessment"***
*by Dr. Pat Heffernan, CD, Ph.D., P.Eng., and
Dr. Abass Braimah, Ph.D., P.Eng.*

Speakers:

Dr. Pat Heffernan, Associate Professor of Civil Engineering
Royal Military College of Canada, and
Dr. Abass Braimah, Blast Hazard Engineer
Natural Resources Canada

Workshop Description:

The workshop will introduce participants to the fundamental characteristics of a blast wave and how to calculate its defining parameters as it pertains to a target structure. A variety of structural failure modes that may result from air blast will be introduced. Target response and loading will be discussed for a variety of scenarios. Structural element modes of response (Quasi-Static, Dynamic, and Impulsive) will be discussed and lead to the derivation of the traditional Pressure-Impulse (PI) diagram. Limits of response will be discussed and put in terms of performance measures useable for design or analysis. Single Degree of Freedom (SDOF) methods for analysis will be demonstrated and compared to the other methods. The SDOF methods will be used to derive a structural member's limits of response and thus derive an analytical version of the elements PI Diagram. RC Design detailing for a blast domain will be discussed briefly.

Who Should Attend

The workshop is presented at the introductory level and is intended for structural engineers interested in expanding their awareness of the blast/structures environment. The course will focus on walking participants through a basic example of an RC column loaded with an explosively generated air blast.

LOCATION:

Blackfoot Inn

5940 Blackfoot Trail
SE, Calgary

Registration

8:30 AM

Workshop

9:00 AM to
4:30 PM

Before Oct 3, 2008

Cost:

\$275 CSCE Members

\$375 Non-members

\$50 Students

Lunch will be
provided.

Calgary Section Executive:

Chair: Dan Dankewich

Vice Chair: Erin Dvorak

Secretary: Alana Somers

Treasurer: Andrew Boucher

Find Registration Form at
www.cscecalgary.ca

CALGARY



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