



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

[www.csce.ca](http://www.csce.ca)



**SEABC Vancouver Island Branch**

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**CANADIAN GEOTECHNICAL SOCIETY  
VANCOUVER ISLAND CHAPTER**

## **Vancouver Island CSCE/CGS/SEABC Joint Technical Seminar**

### **Chile Earthquake of February 27 2010 Observations and Lessons for BC**

**Monday, June 28, 2010; 1:00 to 4:00 PM**

**Ministry of Transportation and Infrastructure  
Meeting Room 3A, 940 Blanshard Street  
Victoria, BC V8W 3E6**

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#### **The Presentation**

The massive Magnitude 8.8 Chile Earthquake of February 27, 2010 resulted in significant loss of lives and damage to civil and transportation infrastructure. It could have been worse. Chile is a modern South American country with a good awareness of their earthquake and tsunami risks and structural codes that reflect that. With a subduction zone just off shore very similar to ours in BC, this was a unique opportunity for our scientists and engineers to observe and learn.

The speakers, Dr. John Cassidy of the Geological Survey of Canada, Dr. Carlos Ventura of UBC, Sharlie Huffman of the BC Ministry of Transportation and Infrastructure and Adrian Wightman of BGC Engineering were members of the Canadian Association of Earthquake Engineering Reconnaissance Team that spent 7 days and drove over 2,000 km in Chile the week after the earthquake. They will present background on the similarities and differences between Chile and BC, their observations of the performance of the ground and the infrastructure and the lessons they learned for BC.

The presentation will include seismicity, bridges, buildings, and geotechnical aspects of the earthquake

## The Speakers

**John Cassidy** - Dr. John Cassidy is a Research Scientist with the Department of Natural Resources, Geological Survey of Canada (Sidney, BC) and is an adjunct Professor at the University of Victoria, School of Earth and Ocean Sciences. He completed his B.Sc. in Honours Physics at the University of Victoria in 1982, his M.Sc. in Geophysics in 1987, and his PhD in Geophysics in 1991 at the University of British Columbia. John specialises in earthquake hazard studies in Canada, and during the past 20 years he has published more than 130 scientific and public information articles. John works closely with the engineering community and emergency management organisations that utilise the results of earthquake research, and he is extremely active in public outreach activities.

**Carlos Ventura, P.Eng** - Dr. Carlos Ventura is a Civil Engineer with specializations in structural dynamics and earthquake engineering. He has been a faculty member of the Department of Civil Engineering at the University of British Columbia (UBC) in Canada since 1992. He is currently the Director of the Earthquake Engineering Research Facility (EERF) at UBC, and is the author of more than 300 papers and reports on earthquake engineering, structural dynamics and modal testing. He is a member of several national and international professional societies and advisory committees. Dr. Ventura has conducted research on effects of earthquakes for more than thirty years. His current research is focused on the development of performance-based guidelines for seismic retrofit of schools. In addition to his academic activities, Dr. Ventura is a recognized international consultant on structural vibrations and safety of large Civil Engineering structures.

**Sharlie Huffman, P.Eng** - Sharlie Huffman is the Bridge Seismic Engineer for the Province and has worked for the Ministry of Transportation and Infrastructure for 29 years. Sharlie is responsible for bridge seismic policy and standards for new and retrofit designs. She is also developing Performance-Based seismic design specifications for Ministry projects. She develops and maintains the Ministry Bridge Seismic Retrofit Program and the Ministry's Seismic and Structural Health Monitoring Program, working with UBC in the development of the BCSIMS project. Sharlie is a member of CAEE and SEABC and on the Seismic Committee of the CSA-S6 Code.

**Adrian Wightman, P.Eng** - has 40 years of experience in geotechnical engineering consulting. His experience includes: foundation engineering design and construction for heavy industrial facilities; investigation, layout, design and construction of earth and rockfill dams, including seismic retrofit of dams; seismic hazard assessments; geotechnical earthquake engineering for foundations and earth and rockfill dams. In recent years Mr. Wightman has served on the Standing Committee for Earthquake Design, (SCED), and its predecessor, CANCEE, which periodically updates the seismic design provisions of the Canadian National Building Code.

## Registration (Deadline - Noon Thursday, June 24, 2010)

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|---------------------------------|----------------|
| <b>CSCE, CGS, SEABC Members</b> | <b>\$30.00</b> |
| <b>Non Members</b>              | <b>\$40.00</b> |

**Payment will be collected at the door. Cash or cheque only please. Make cheques payable to: "CSCE - Vancouver Island Section".**

To register please contact Kevin Baskin or Bruce Barnewall by email or phone no later than noon on June 24, 2010 so that a firm headcount can be confirmed:

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| Bruce Barnewall, P.Eng.<br>Secretary/ Treasurer - Vancouver Island Section of the CSCE<br>C/O Ministry of Transportation and Infrastructure<br>Phone: 250-356-0762<br>Bruce.Barnewall@gov.bc.ca | Kevin Baskin, P.Eng.<br>Chair - Vancouver Island Section of the CSCE<br>C/O Ministry of Transportation and Infrastructure<br>Phone 250-387-7737<br>Kevin.Baskin@gov.bc.ca |
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