



The Canadian Society for Civil Engineering
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National Lecture Tour

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Calgary, September 20, 2011 Danish Canadian Club 727, 11th Avenue SW



Engineering Significance and Lessons of the March 11, 2011 Tsunami in Japan: Tsunami Impacts on Infrastructure

By

Dr. Ioan Nistor, University of Ottawa

On March 11, 2011, a magnitude 9.0 earthquake occurred along the Sanriku Coast, offshore of north-east Japan, at 3:46 p.m. local time. The quake resulted in several massive tsunami waves which hit the Japanese coast, reaching 38.7 m in height. Significant damage occurred in coastal and inland engineered structures located in several coastal towns that were largely destroyed. The first international research team composed of a group of four engineers (three from the US and one from Canada), visited the affected area four weeks after the event to conduct reconnaissance investigations on behalf of the American Society of Civil Engineers (ASCE). Dr. Ioan Nistor was part of this reconnaissance team. He will present findings and observations on the performance of infrastructure and the damage caused by devastating tsunami waves. In addition, as a member of the newest ASCE7 Subcommittee entrusted with the elaboration of Design Guidelines for Tsunami-Resistant Buildings, he will present an overview of the current research and engineering efforts in this direction.

The lecture will be of interest to hydraulic, structural, and geotechnical engineers interested in disaster prevention and mitigation, with a particular emphasis on the design of structures prone to extreme loading due to tsunamis, waves, and flash floods in the Canadian context.



Dr. Ioan Nistor, Ph.D, Ing. (OIQ), is an associate professor of hydraulic and coastal engineering at the University of Ottawa. He has worked on various international and Canadian projects related to dam engineering, coastal engineering, environmental engineering as well as sanitation and water resources development. Ioan has participated in several international and Canadian research programs and has won several research and teaching awards.

NLT SCHEDULE

Please contact your local Section for venue and registration details.

DATE	LOCATION	TIME	SECTION CONTACT	EMAIL	PHONE
September 19, 2011	VICTORIA	12:00 p.m.	Kevin Baskin	Kevin.Baskin@gov.bc.ca	250-387-7737
September 19, 2011	VANCOUVER	7:00 p.m.	Lacey Hirtle	lacey.hirtle@gmail.com	604-871-6392
September 20, 2011	CALGARY	12:00 p.m.	Dan Dankewich	ddanke2@telus.net	403-802-0216
September 20, 2011	EDMONTON	7:00 p.m.	Andrew Neilson	ANeilson@designdialog.ca	780-917-4669
September 21, 2011	REGINA	7:00 p.m.	Harold Retzlaff	harold.retzlaff@gov.sk.ca	306-787-5642
September 22, 2011	THUNDER BAY	7:00 p.m.	Gerry Buckrell	gbuckrell@enl-tbay.com	807-623-3449 ext. 223
DATE	LOCATION	TIME	CONTACT	EMAIL	PHONE
September 26, 2011	LONDON	12:00 p.m.	Thomas Mara	tmara3@uwo.ca	519-697-1547
September 26, 2011	HAMILTON	7:00 p.m.	Ben Hunter	ben.hunter@amec.com	905.335.2353 ext. 269
September 27, 2011	HALIFAX	7:00 p.m.	Michel Comeau	mcomeau@campbellcomeau.ns.ca	902-429-5455
September 28, 2011	FREDERICTON	6:00 p.m.	Andy Small	andy.small@amec.com	506-458-1000
September 29, 2011	ST. JOHN'S	7:30 p.m.	Bing Chen	bchen@mun.ca	709-737-8958