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October 2020 CGS-SOS Webinar

Risk-Informed Decision Making for Dams
By: Glenn Rix, Ph.D., P.E.

This event is jointly hosted by CGS-SOS & University of Waterloo

Date: Tuesday October 13, 2020

Time: 12:00 – 1:30 PM

Registration Link: <https://www.eventbrite.ca/e/cgs-sos-webinar-october-2020-risk-informed-decision-making-for-dams-tickets-123395767061>

The link to access the webinar will be provided to the registrants in advance of the event.

Abstract:

Many dam owners and regulators in North America are transitioning from standards-based to risk-informed dam safety programs. In Canada, the risk-informed approach is encouraged by the Canadian Dam Association 2013 Dam Safety Guidelines. This presentation will highlight some of the key differences between the two approaches, present concepts such as tolerable and acceptable risk, and discuss how different types of uncertainty are characterized and modeled in a risk analysis. A simple example based on the risk of oversleeping is presented that illustrates many of the basic concepts used in quantitative risk analyses of more complex civil infrastructure systems including dams.

Distinguished Speaker:

Glenn Rix, Ph.D., P.E.

Senior Principal, Geosyntec Consultants Inc.



Glenn J. Rix is a Senior Principal with Geosyntec Consultants, Inc. with more than 30 years of experience focused on the areas of geotechnical earthquake engineering and engineering seismology. His practice includes seismic hazard and risk assessment and mitigation for civil infrastructure. Glenn joined Geosyntec following a 23-year career as a professor in the School of Civil and Environmental Engineering at the Georgia Institute of Technology. Since joining Geosyntec, Glenn has performed seismic hazard and risk analyses, liquefaction triggering evaluations, site response analyses, and seismic stability and deformation analyses for embankment and concrete dams, coal combustion residual (CCR) storage facilities, municipal and hazardous waste landfills, liquefied natural gas facilities, and highway bridges. He has also

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served as an external peer reviewer for seismic hazard analyses for nuclear power plants and provided litigation support for numerous cases related to the effects of blasting- and construction-induced ground vibrations on structures. Glenn is a leading authority on in-situ seismic methods and is a co-author of *Surface Wave Methods for Near-Surface Site Characterization* and the forthcoming American Association of State Highway and Transportation Officials (AASHTO) *Manual on Subsurface Investigations*.

Glenn also serves as the Chairman of the Advisory Committee on Earthquake Hazards Reduction (ACEHR). ACEHR advises four U.S. federal agencies involved in the National Earthquake Hazards Reduction Program (NEHRP) and is charged with assessing trends and developments in the science and engineering of earthquake hazards reduction; the effectiveness of NEHRP; as well as the management, coordination, implementation, and activities of NEHRP.

General Admission to Webinar	Free
<p style="text-align: center;">Sponsorship</p> <p>Each Sponsor will have their logo prominently displayed on the first slide of the presentation accompanied with an acknowledgement, as well at the end during the Q & A session.</p>	\$150
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