

Earth Sciences

Colloquium Series



Dr. Katsuichiru Goda

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Multi-hazard Impacts on Coastal Communities in British Columbia: Findings & Insights from the CIRCLE Project

Abstract: This talk presents findings from the CIRCLE (Community and Infrastructure Resilience to Climate-geological Long-term Effects) project on multi-hazard risks in Tofino, British Columbia, focusing on earthquakes, tsunamis, tides, and sea-level rise. (https://www.uwo.ca/multihazard_risk_resilience/CIRCLE_project/index.html) Probabilistic risk assessments show that Cascadia subduction earthquakes are the dominant source of risk, while tsunami impacts are particularly important in low-lying coastal areas.

The results highlight how time-dependent earthquake occurrence, tidal conditions, and future sea-level rise can increase tsunami risk. The presentation also discusses community resilience efforts in Tofino and outlines future work on evacuation modelling, mobility analysis, and participatory disaster foresight to support safer and more resilient coastal communities.

Speaker: Dr. Katsuichiro Goda is a Professor and a Canada Research Chair in Multi-Hazard Risk Assessment at the University of Western Ontario, Canada. His research is focused on catastrophic earthquake-related multi-hazard risk management from economic and societal viewpoints. At Western University, he leads the Center for Multi-hazard Risk and Resilience (https://www.uwo.ca/multihazard_risk_resilience).

Date: Friday, October 2, 2026

Time: 1:30 pm

Location: BGS 0153

Coffee and Timbits will be served.