



EARTHQUAKE ENGINEERING RESEARCH INSTITUTE
BRITISH COLUMBIA CHAPTER

2023 EERI-BC Annual General Meeting

Register for the AGM

Time: Thursday, December 14, 2023 at 5:30 PM
Location: UBC Robson Square - Room C680 (HSBC Hall)
Address: 800 Robson St, Vancouver, BC

To join directly via zoom, click [here](#)
Meeting ID: 665 9799 5912
Passcode: will be mailed to registrants
Dial in: +1 778 907 2071 (Vancouver)

Time (PM)	Agenda
5:30 – 6:00	Welcome Reception
6:00 – 6:10	2023 AGM: Earthquake Engineering Research Institute - BC Chapter
6:10 – 6:30	Unusual Irregular Buildings and Other Failings of the Building Code <i>Prof. Perry Adebar</i>
6:30 – 6:45	Sedimentary Basin Amplification in Ground Motion Shaking during Subduction Earthquakes in Metro Vancouver <i>Dr. Preetish Kakoty</i>
6:45 – 7:00	UBC Seismic Design Team Presentation
7:00 – 7:30	Networking Opportunity

Session Key Speakers

Prof. Perry Adebar

*Professor of Structural Engineering
Civil Engineering Department, The University of British Columbia*

Dr. Perry Adebar PEng, is a professor of structural engineering at the University of British Columbia. He is chair of the National Standing Committee on Earthquake Design responsible for Article 4.1.8. Earthquake Load and Effects in the Building Code, and he is chair of the technical group within Canadian Standard A23.3 responsible for Clause 21 Special Provisions for Seismic Design of concrete buildings. Dr. Adebar is the lead author of the EGBC Professional Practice Guidelines – Structural Engineering Services for Tall Concrete Building Projects.



“Unusual Irregular Buildings and Other Failings of the Building Code”

Today, almost every building is unique and many buildings are very exciting from both an architectural and engineering perspective. When asked about the performance of these unique building designs in a place where severe ground shaking can occur, the usual answer from everyone involved is that the building design must meet all the requirements of the Building Code. Are the prescriptive earthquake design provisions in the Building Code sufficient for these unique buildings? The short answer is no. This presentation will explore the ever-increasing gap between how we want our buildings to perform in an earthquake and what the Building Code actually ensures, as well as some possible solutions to close that gap.



Preetish Kakoty

*Structural & Earthquake Engineering Group
Civil Engineering Department, The University of British Columbia*



Preetish Kakoty completed his PhD in Structural & Earthquake Engineering from the Civil Engineering Department at UBC. His research interests lie broadly in the area of probabilistic seismic hazard and risk assessment with a focus on advancing policy discussions to reduce risk. He was born and raised in Guwahati, India; and has master's degrees in Structural Engineering (University of California Irvine) and Systems Engineering (Johns Hopkins University) and an undergraduate degree in Civil Engineering (Assam Engineering College).

“Sedimentary Basin Amplification in Ground Motion Shaking during Subduction Earthquakes in Metro Vancouver”

Metro Vancouver sits above the Georgia sedimentary basin which is part of geological depressions or low-lying areas where sediments accumulate over time in the Pacific Northwest. Sedimentary basins have been shown to amplify ground motion shaking in past earthquakes in other geographical regions. This presentation highlights a recent study on quantifying basin amplification during subduction earthquakes that leverages physics-based simulated ground motions that explicitly consider basin effects.

UBC Seismic Design Team

*Undergraduate Student Team
Civil Engineering Department, The University of British Columbia*

UBC Seismic will be giving an overview of their team and the Seismic Design Competition (SDC) organized by EERI. They will share their past designs for the competition, as well as the new design challenges with respect to the 2023 competition criteria, which involves significant architectural irregularities. The team would also showcase their current industry partnerships and discuss the potential opportunities available for more industry involvement.



The presentation will cover the following:

- An overview of the team
- The Seismic Design Competition (SDC) organized by EERI and the rules and competition format
- UBC Seismic's previous achievements and designs and a brief of the current design
- Current industry partnerships with Bush Bohlman, Glotman Simpson, RJC, Aspect Structural Engineers
- Future opportunities for more industry involvements