

the 312th

Open Seminar for Sustainable Humanosphere

RISH, Kyoto University

NHERI TallWood Project: Findings from the world's tallest full-scale shake table test

7/24^(WED), 2024 12:30-13:20



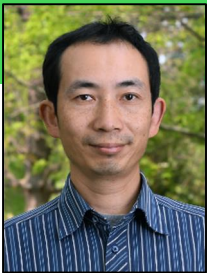
Admission:

FREE

Associated
Mission

Mission4 Development and
Utilization of Wood-based Sustainable
Materials in Harmony with the Human
Living Environment

Mission5 Quality of the Future
Humanosphere



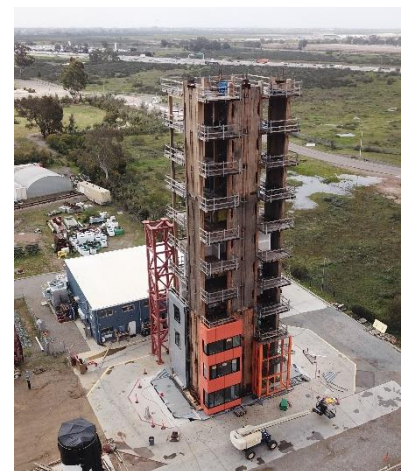
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Key-
words

- ✧ Tall wood building
- ✧ Rocking wall lateral
system
- ✧ Resilience-based
design
- ✧ shake table test

This presentation will provide an overview of the results from a multi-year research project towards seismically resilient tall wood buildings. Specially, the planning, execution, and results will be discussed from the NSF-funded NHERI TallWood Project which aims at developing a resilience-based seismic design methodology for tall wood buildings. In collaboration with many industry partners, the project team tested a full-scale 10-story mass timber building in 2023 in order to validate a tall wood building design that is essentially earthquake proof. This is the world's tallest full-scale building ever tested on a shake table to date, and survived over 240 earthquake tests without structural damage.



The "open seminar" is a casual research meeting during lunch time on Wednesdays, with the aim of sharing research results, and enhancing collaborations.

[https://www.rish.kyoto-u.ac.jp/open seminar 2022/](https://www.rish.kyoto-u.ac.jp/open%20seminar%202022/)



Organized by Research Institute for Sustainable Humanosphere, Kyoto University