ROMA TRE
UNIVERSITÀ DEGLI STUDI

Architettura Roma Tre

Corso di TECNICA DELLE COSTRUZIONI
(Canale A e B)

Docenti: Tommaso Albanesi e Cristoforo Demartino

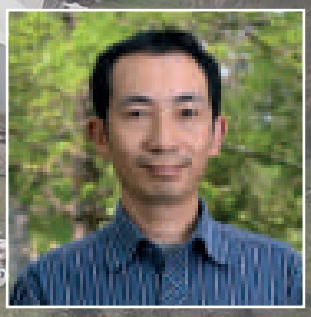
da r3

TALL WOOD BUILDINGS FOR FUTURE CITIES

PRESENTER:
SHILING PEI, PHD. P.E.

LEAD PI OF
THE NHERI TALLWOOD PROJECT

ASSOCIATE PROFESSOR
COLORADO SCHOOL OF MINES



Dr. Shiling Pei, who obtained his Ph.D. in Civil Engineering from Colorado State University in 2007, is a faculty member at the Colorado School of Mines since 2013. His research focuses on both traditional and modern timber structures, structural dynamics, and performance-based engineering, including large-scale testing. Notably, he was awarded the ASCE Raymond C. Reese Research Prize in 2012 for his research on a wood-steel hybrid building tested on a shake table in Japan. Dr. Pei led the NHERI TallWood Project, testing a full-scale, 10-story mass timber building, which gained him recognition as one of the "25 News Makers" by Engineering News-Record in 2023. He is also a Professional Engineer in California and chairs the ASCE Technical Committee on Wood Design.

In his presentation, Dr. Pei discusses the historical and modern use of wood in construction. Despite being economical, wood has traditionally been limited to low-rise buildings. However, mass timber construction introduces new possibilities for tall, high-performance wood buildings, sparking interest in wooden skyscrapers. He highlights advancements in mass timber for urban development and presents recent research on earthquake-resistant tall wood structures, including the NHERI TallWood project, which tested the tallest full-scale wooden building on a shake table.

AULA LIBERA, MARTEDI' 29 OTTOBRE 2024, ORE 12:00-13:00
FACOLTA' DI ARCHITETTURA
LARGO GIOVANNI BATTISTA MARZI, 10 , ROME