aci CONCRETE CONVENTION

THE WORLD'S GATHERING PLACE FOR ADVANCING CONCRETE

INTERNATIONAL LUNCH

SUNDAY, OCTOBER 23, 2022

11:30 AM – 1:30 PM | $40 U.S. PER PERSON

Sozen's Zen: Interactions with Japanese Researchers

In the 1920s, T. Naito in Japan developed ideas about building design that were shown to be quite effective by the Kanto Earthquake that devastated Tokyo in 1923. Naito stressed the importance of stiffness in earthquake response. Few paid attention in the United States, where the focus was instead on strength. It took decades for the relevance of stiffness to be realized in the US. That was done again through interactions with the Japanese. The works of Takeda, Shibata, Shiga, Otani, and Shimazaki were key for Mete Sozen to formulate the ideas that drift should control design for earthquake demands and that drift can be controlled by increases in building stiffness. This presentation reviews those works and the original ideas of Naito to propose that international collaboration can speed up the urgent transformations required in our profession to cope with the challenges posed by: a) climate change; and b) expanding cities in which the public expects buildings to regain functionality soon after earthquakes.

Santiago Pujol

Santiago Pujol, *FACI, is a Professor of Civil Engineering at the University of Canterbury, Christchurch, New Zealand. Before moving to New Zealand, he was a Professor of Civil Engineering at the Lyles School of Civil Engineering, Purdue University, West Lafayette, IN, USA. His experience includes earthquake engineering, evaluation and strengthening of existing structures, response of reinforced concrete to impulsive loads and earthquake demands, instrumentation and testing of structures, and failure investigations. He is a Fellow of ACI and a member of ACI Committees 133, Disaster Reconnaissance, and 314, Simplified Design of Concrete Buildings; , ACI Subcommittees 318-F, Foundations, and 318-W, Wind Provisions; and Joint ACI-ASCE Committee 445, Shear and Torsion. He is also a member of the Earthquake Engineering Research Institute (EERI), an associate editor of Earthquake Spectra, and a founder of datacenterhub.org (a site funded by the U.S. National Science Foundation and dedicated to the systematic collection of research data). He received the Chester Paul Siess Award for Excellence in Structural Research from ACI, the Educational Award from the Architectural Institute of Japan, and the Walter L. Huber Civil Engineering Research Prize from the American Society of Civil Engineers (ASCE).*

The ACI Concrete Convention will take place at the
Hyatt Regency Dallas in Dallas, TX, October 23-27, 2022.
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