

ATC-15-15
PRELIMINARY PROGRAM

16TH U.S.-JAPAN-NEW ZEALAND WORKSHOP ON THE IMPROVEMENT
OF STRUCTURAL ENGINEERING AND RESILIENCY

June 27-29, 2016

Todaiji Temple Cultural Center
100, Suimoncho, Nara Prefecture, Japan
Phone: +81-742-20-5511

Monday, June 27, 2016

Session 1: Resiliency Based Engineering
9:30 am – 12:00 pm

Resilient design objectives typically focus on limiting repair costs and repair time, such that a building can more quickly resume function after an event. This session seeks papers on methods for analyzing, designing, or communicating building resiliency.

Session 2: Post-Earthquake Repair and Residual Capacity
1:30 pm – 4:00 pm

Communities must effectively and efficiently assess the residual capacity and reparability of earthquake-damaged buildings; however, this has not been a traditional focus of structural engineering research. This session seeks papers on practical experience, research, and guideline development related to the assessment of residual capacity.

Tuesday, June 28, 2016

Session 3: Risk Identification and Reduction
8:30 am – 10:20 am

Cities, states and provinces have struggled with risk identification and reduction at an affordable cost. This session seeks papers on recent risk identification programs and examples of successful ongoing programs that have identified, prioritized, and addressed major risks and their reduction.

Session 4: Engineering and Technology in Underdeveloped Countries
10:40 am – 12:30 pm

Populations in underdeveloped countries have become especially vulnerable to earthquakes due to exponential growth coupled with a lack of engineering, construction quality control, and capacity to enforce building codes. This session seeks papers describing how engineering capacity can be strengthened in such areas.

Session 5: Resiliency of Nonstructural Elements
2:00 pm – 4:00 pm

Performance of nonstructural components and systems can control usability and function. This session seeks papers on nonstructural considerations for resilience.

Wednesday, June 29, 2016

Session 6: Disaster Reconstruction and Recovery
8:30 am – 10:20 am

Five years has passed since the Great East Japan and Christchurch earthquakes. This session seeks papers discussing lessons learned from the recovery and reconstruction efforts following major disasters.

Session 7: Innovative Structural Design for Large Earthquakes
10:40 am – 12:30 pm

Achieving enhanced performance in large earthquakes requires innovative solutions. This session seeks papers on innovative design concepts and practical design examples for achieving resilience.

Session 8: Closing Session
12:30 pm – 1:00 pm

Workshop summary and wrap-up. Discussion on potential future Workshop dates, location, and agenda.

Technical Tour (TBD - optional)
2:00 pm – 5:00 pm

SPONSORING ORGANIZATIONS



Applied Technology Council



Japan Structural Consultants Association



New Zealand Centre of Research Excellence (QuakeCoRE)



New Zealand Society for Earthquake Engineering

STEERING COMMITTEE

U.S.: Kit Miyamoto, Jon Heintz, Co-Chairs; Veronica Cedillos, Laura Champion, Gary Chock, Mike Cochran, Curt Haselton, Sabine Kast, Andrew Kennedy, Roberto Leon, Abbie Liel, David Mar, Ron Mayes, John Wallace, Andrew Whittaker, Peter Yanev, and Kent Yu.

Japan: Mitsuru Kawamura, Co-Chair; Yozo Shinozaki.

New Zealand: Ken Elwood, Co-Chair; Brendon Bradley, Rob Jury, Stefano Pampanin, Nick Regos, Peter Smith, Mike Stannard.