

# ATC-15-15

## 16<sup>th</sup> U.S.-Japan-New Zealand Workshop on the Improvement of Structural Engineering and Resiliency

Todaiji Temple Cultural Center in Nara, Japan • June 27-29, 2016

### REGISTRATION INFORMATION AND PRELIMINARY PROGRAM

**Purpose.** This Workshop is intended to discuss and develop policy recommendations for improved community resilience based on topics related to current state-of-practice, innovative engineering solutions, and emerging resilience technologies. A special focus of the Workshop will be on post-earthquake repair and assessment of residual capacity of earthquake-damaged buildings.

**Workshop Program.** The format has been expanded to include representation from New Zealand in addition to the United States and Japan. The program has been designed for practicing engineers, researchers, planners, policy makers, and other risk reduction specialists. It will include technical presentations, panel discussions, and policy-development discussions. Technical sessions are planned around resiliency based engineering, innovative design, technologies in underdeveloped countries, nonstructural elements, repair, residual strength, reconstruction and recovery.

**Past Workshops in this Series.** This Workshop is the 16<sup>th</sup> in a series that began in 1984 and has been repeated every two or three years. Previous workshops have been held in California (San Diego and San Francisco), Hawaii (Honolulu, Kauai, Kona, Kohala Coast, and Maui), Japan (Kobe and Tokyo), and Victoria, British Columbia.

**Abstract Submittal.** Persons interested in presenting a paper in one of the program topical areas should submit an abstract of 250 words or less, to ATC, by **April 30, 2016**. Selected authors will be notified by **May 7, 2016**. Technical papers, up to 8 pages in length, are due to ATC by **May 31, 2016** for publication in the Workshop Proceedings. The official language of the Workshop is English.

Abstracts and Papers should be submitted to the Applied Technology Council, 201 Redwood Shores Parkway, Suite 240, Redwood City, California 94065 (e-mail, [ATC@ATCouncil.org](mailto:ATC@ATCouncil.org)).

**Workshop Proceedings.** Papers presented at the Workshop will be published in preprints distributed at the Workshop. The results of technical discussions, findings and policy recommendations will be distributed after the Workshop.

#### Workshop Dates and Location.

June 27-29, 2016

#### Todaiji Temple Cultural Center

100, Suimoncho, Nara Prefecture, Japan

Phone: +81-742-20-5511

**Workshop Registration.** The Workshop registration fee is US\$550 (\$525 for ATC Subscribers) and includes Workshop handouts, a welcome reception, two luncheons, and two dinner parties (technical tour optional). Persons interested in attending the Workshop should register on-line at [www.ATCouncil.org](http://www.ATCouncil.org), or submit the attached Workshop Registration Form to ATC by **May 31, 2016**. A late fee of US\$50 will be imposed on registrations received after the submittal deadline.

### HOTEL RESERVATIONS

**Hotel Reservations.** A block of guest rooms is being held at the Hotel Nikko Nara at a rate of ¥9,300 (\$86) per night single occupancy and ¥15,600 (\$145) per night double occupancy until May 26, 2016. For room reservations, contact the Hotel Nikko Nara directly (+81-742-35-8831) and reference ATC-JAPAN-NZ.



## 16<sup>TH</sup> U.S.-JAPAN-NEW ZEALAND WORKSHOP REGISTRATION FORM



NAME(S) \_\_\_\_\_

ORGANIZATION \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY/STATE/ZIP CODE \_\_\_\_\_

BUSINESS PHONE AND FAX NUMBERS \_\_\_\_\_

E-MAIL: \_\_\_\_\_

Please enroll me as an ATC Subscriber (\$35 per year, Individual rate) \$ \_\_\_\_\_

Workshop Registration Fee: \$550 per registrant (\$525 for ATC Subscribers) \$ \_\_\_\_\_

Late Registration Fee: add \$50 per registrant (if received after May 31, 2016) \$ \_\_\_\_\_

TOTAL ENCLOSED: \$ \_\_\_\_\_

Payment may be made by check or credit card. If paying by credit card, please provide the following information:

Credit Card # \_\_\_\_\_ Expiration: \_\_\_\_\_ / \_\_\_\_\_

Cardholder's Signature: \_\_\_\_\_

Checks should be made payable to ATC. Please mail your completed form with the appropriate payment, or fax it, to: ATC, 201 Redwood Shores Pkwy, #240, Redwood City, CA 94065 (FAX 650-593-2320 / E-mail: [ATC@ATCouncil.org](mailto:ATC@ATCouncil.org))

ATC-15-15  
PRELIMINARY PROGRAM

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

June 27-29, 2016

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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.