

4TH ANNUAL CEA RESEARCH FORUM

Monday, October 26, 2020

9:00 a.m.

Welcome Introductions

Glenn Pomeroy, CEA; Khalid Mosalam, PEER

9:15 a.m.

Introduction to Forum

Janiele Maffei, CEA

9:30 a.m.

FEMA/CUREE/ATC: Single Family Residential Structures

Applied Technology Council, ATC

Leveraging recent advances in engineering to improve analytical collapse predictions, design retrofits, and repair earthquake damage

- ATC-116 Project: Solution to the Short-Period Building Paradox
Weichiang Pang
- ATC-110 Project: FEMA P-1100 Vulnerability
Kelly Cobeen
- ATC-143 Project: Practical Guidance for Assessment and Repair
Morgan Griffith

11:00 a.m.

BREAK

11:10 a.m.

CEA/PEER Project and Findings

Pacific Earthquake Engineering Research Center, PEER

Quantifying the Performance of Retrofit of Cripple Walls and Sill Plate Anchorage in Single-Family Wood-Frame Buildings

- Project Overview
Yousef Bozorgnia, Grace Kang
- Key Findings
Evan Reis, Sharyl Rabinovici
- Q&A

12:45 p.m.

LUNCH

1:30 p.m.

CEA/PEER Project and Findings

Pacific Earthquake Engineering Research Center, PEER

Quantifying the Performance of Retrofit of Cripple Walls and Sill Plate Anchorage in Single-Family Wood-Frame Buildings

- Loading Protocol for Experimental Testing
Farzin Zareian
- Experimental Testing Program – Overview and Key Findings
Kelly Cobeen, Tara Hutchinson
- Seismic Hazard, Ground Motion Selection and Modifications
Silvia Mazzoni, Yousef Bozorgnia
- Q&A

3:15 p.m.

Summary and Wrap Up of CEA 2020 Research Forum, Day 1

Janiele Maffei, CEA