

# 4<sup>TH</sup> ANNUAL CEA RESEARCH FORUM

## Tuesday, October 27, 2020

9:00 a.m.

### **Welcome Introduction**

*Janiele Maffei, CEA*

9:05 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

- Estimates of Repair Costs: Workshop with Claims Adjusters  
*Bret Lizundia*
- Development of Damage Functions: Computer Modeling and Analysis of Unretrofitted & Retrofitted Conditions  
*David Welch, Greg Deierlein*
- Comparing Analytical and Industry Catastrophe Models  
*Evan Reis*

**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

- Opportunities for Future Research from This Project  
*Yousef Bozorgnia, Grace Kang*

**12:00 p.m.**

### **LUNCH**

- Q&A

1:00 p.m.

### **Earthquake Data Collection**

New technologies that could revolutionize earthquake data collection

- SIM Center software  
*Frank McKenna*

1:30 p.m.

### **Discussion**

*CEA*

Open discussion with full Q&A

2:00 p.m.

### **GAPS/Future Research**

Interactive discussion through Q&A and polls

2:30 p.m.

### **Earthquake Data Collection**

New technologies that could revolutionize earthquake data collection

- AI-Supported SHM & Earthquake Reconnaissance  
*Khalid Mosalam, PEER*

3:00 p.m.

### **Summary and Wrap Up of CEA 2020 Research Forum**

*Janiele Maffei, CEA*