

# FRIEDMAN FAMILY VISITING PROFESIONALS PROGRAM



## Visit to University of California, Berkeley: April 2019

This report summarizes the visit of **Janiele Maffei** from the California Earthquake Authority that took place at the University of California, Berkeley on April 2019.

### ITINERARY OR AGENDA

The itinerary included a guest lecture and a meeting with graduate students to provide insight and feedback on their research projects for the earthquake engineering design projects. There was a dinner planned with the visiting professional, but it had to be canceled in the last minute due to personal reasons.

TIME:	ACTIVITY:
5:00 PM – 6:00 PM	Student Chapter President meets & welcomes Visiting Professional to campus
5:00 PM – 6:00 PM	Guest lecture by Visiting Professional
6:00 PM – 7:00 PM	Informal meeting with graduate students where they present, share and discuss research projects to get insight and feedback from visiting professional.

### STUDENT CHAPTER VISIT PLANNING COMMITTEE

**LEAD ORGANIZER(S):** {enter name of student members who lead the visit, chapter role, email}

- Tal Feinstein, President, [talish@berkeley.edu](mailto:talish@berkeley.edu)
- Paolo Martuscelli, Vice President, [paolo\\_martuscelli@berkeley.edu](mailto:paolo_martuscelli@berkeley.edu)
- Jack Moehle, EERI faculty advisor, [moehle@berkeley.edu](mailto:moehle@berkeley.edu)
- Tracy Becker, Professor teaching Earthquake-resistant design course, [tcbecker@berkeley.edu](mailto:tcbecker@berkeley.edu)

Also include names of any faculty, industry advisors or others who helped.

### VISITING PROFESSIONAL LECTURE OVERVIEW

The lecture topic was “It could happen today...” and was focused on insurance for single homes in California and the consequences of the low rate of insurances in the area. The attendees were mostly graduate students from the SEMM program.

#### Lecture Abstract

How earthquakes damage single-family residential dwellings and the seismic retrofits that can protect these dwellings. How a residential earthquake insurance provider is promoting and funding seismic retrofits through:

Code and plan set development

Retrofit financial grant program

Educational outreach

A bold future where expected earthquake performance of a building is valued by California home buyers.

## Professional Bio

As Chief Mitigation Officer of the CEA, Janiele Maffei is responsible for planning and directing the statewide residential retrofit program; leading the processes of developing and promoting educational programs that stress the importance of mitigation; collaborating with academic institutions, and industries to promote and support mitigation research and activities; and other actions that promote seismic mitigation and support mitigation-related insurance-premium discount for CEA policyholders. Ms. Maffei also serves as the Executive Director of the California Residential Mitigation Program, a Joint Power Authority of the CEA and Governor's Office of Emergency Services since its inception in August 2011. She is a registered structural engineer who has worked in the earthquake engineering industry for over 30 years. Her experience includes the design of new building structures and seismic strengthening of existing structures. Ms. Maffei earned her AB in Architecture and M.S. in Civil Engineering from the University of California at Berkeley. Ms. Maffei is a former president of the Northern California Chapter of EERI. She worked on the organizing committee of the 2010 EERI Annual Meeting in San Francisco. She is a member of the Structural Engineers Association of California and served on their Board from 1995-1997. She participated in post-earthquake reconnaissance investigations following the Loma Prieta, Northridge, and South Napa earthquakes

## SUPPLEMENTAL ACTIVITIES

### Research discussion with graduate students

Graduate student that have researched topics related to earthquake losses through a final project in CE227 (Earthquake-resistant design).

The students prepared questions regarding their projects in advance and presented their topics and their question one group at a time. The three projects that participated where on low cost structural seismic isolation and retrofit for communities in need, why engineers should be aware of the limitations of both performance and resilience-based design and how to communicate and negotiate these limitations with the owners, and analyzing Nepal's current earthquake resistant design practices (focus on housing). The students got the speaker's insight into their topics, based on their questions, and were offered more assistance on additional points through direct contact with the speaker.

## RESULTS, FEEDBACK AND LESSONS LEARNED

The students that participated in the lecture were very interested and asked many questions at the end of the lecture. The supplemental activity of meeting with some of the graduate students was very helpful for the students and contributed to their understanding of their research topics.

The Berkeley student chapter would like to include more geotechnical lectures in the future to help reaching out to additional students outside of the SEMM group. In addition, the chapter would like to focus on lectures from leading professionals that push toward design according to performance goals, rather than life safety design.

## ACKNOWLEDGEMENTS

The UC Berkeley EERI Student Chapter gratefully acknowledges the support of the Friedman Family for sponsoring the travel of Janiele Maffei through their Friedman Family Visiting Professional Program endowment.

## LIST OF ATTACHMENTS

## “It Could Happen Today...”



**Janiele Maffei, PhD, F. ASCE, F. SEI**  
**Chief Mitigation Officer, California Earthquake Authority, Sacramento, CA**

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**Mon 4/8, 5pm, 502 Davis Hall**