

FRIEDMAN FAMILY VISITING PROFESSIONALS PROGRAM

Visit to California State University, Chico: March 10, 2020



This report summarizes the visit of **Janiele Maffei** Chief Mitigation Officer of California Earthquake Authority. That took place at the California State University Chico.

AGENDA

TIME:	ACTIVITY:
9:30 AM - 10 AM	Meet with Ernesto Alvarez at the 3rd level of the parking structure
10 AM - 10:30 AM	Arrival check in at the CE office and walk over to 555 Main St, 3rd floor (NMR office)
10:30 AM - 12 PM	Speak to NMR employees about their work and (hospital + School projects)
12 PM - 1 PM	Lunch with NMR and students
1 PM - 1:30 PM	Civil Engineering Lab Tutor with Dr. Mehl (Civil Engineering Department Chair)
1:30 PM - 2 PM	Meeting with the Dean of the College of Engineering
2 PM - 3 PM	Chico State Tour w/ members of EERI
3 PM - 3:15 PM	Break / meet up with Dr. Haselton
3:15 PM - 4:45 PM	Take tutor with Dr. Haselton @ HBR
4:45 PM - 5 PM	Head back to CSU Chico
5 PM - 6 PM	EERI General Meeting
6 PM - 8 PM	Dinner with HBR

STUDENT CHAPTER VISIT PLANNING COMMITTEE

LEAD ORGANIZER(S): Ernesto Alvarez, Outreach Coordinator, ealvarez25@mail.csuchico.edu

- Jack Anderson, Publications Officer, janderson126@mail.csuchico.edu
- Jordan Beach, President, jbeach4@mail.csuchico.edu

Dr. Steffen Mehl, CSU Chico CE Department Chair

Dr. Jared DeBock, CSU Chico Professor

Dr. Curtis Haselton, CSU Chico Professor

Brent Cunningham, NMR Engineer.

VISITING PROFESSIONAL LECTURE OVERVIEW

Janiele Maffei lectured the students about the "Earthquake Brace + Bolt" that CEA is conducting. The goal of the program is to retrofit homes that are at risk of seismic activity. By retrofitting the homes, the damages of the earthquakes can be decreased significantly

Lecture Abstract

Topics covered during Lecture:

- Earthquake Insurance
- Earthquake Mitigation
- Quantifying risk and hazards
- Social implications of natural disasters

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

NMR Architects and Engineers

Janiele spoke about her upbringing to EERI, her involvement and what she does for the Earthquake Brace + Bolt Program. Janiele elaborated on what happened after the North Ridge Earthquake. Both the insurance policy and the earthquake policy were changed for housing. The policy should be affordable to the typical homeowner. 1940 homes are the largest concern for the retrofitting projects. A major milestone is that 10,000 homes have been retrofitted because of this program. Another major milestone is contractors must be recognized in the CEA website. Funding is a major part within the retrofitting projects. There are a few programs that are being implemented to assist different demographics such as low income and commercial.

Civil Engineering Department Tour

Dr. Mehl took a few students and Janiele on a tour of the fluids lab, soils lab, and concrete lab. Throughout the labs there are several ASCE projects. Janiele talked her involvement with UC Berkeley's concrete canoe.

Meeting with the Dean of Engineering, Computer Science, and Construction Management (ECC)

The Dean of ECC for Chico State is Dr. Melody Stapleton. Janiele along with a few students talked to the Dean about what EERI is. The importance of having clubs to promote student involvement with the industry. Dr. Melody also talked about the importance of diversity within the engineering.

Meeting with Haselton Baker Risk Group

Dr. Haselton and Janiele talked about SP3. As of right now, SP3 is mostly used for commercial buildings, so Haselton wanted to figure out if there is anything to look out for in the near future regarding research or code changes that may affect the development of the site assessment software. In summary, Janiele emphasized how important it is to combine the hazard with the vulnerability. Haselton and Janiele found common ground regarding how difficult it is to get the public to realize the importance of retrofitting and seismic mitigation.

RESULTS, FEEDBACK AND LESSONS LEARNED

Some of the challenges of organizing this event together was to communicate with all the parties involved. It was difficult to make sure the agenda could fit within their schedules. This was Chico State's first year holding a Friedman Family Visit Event so, we didn't have experience to organize the event. The example visits from previous years were very helpful. I recommend other students chapter look at the previous meeting for their visitor. All in all, this experience was very interesting and exposed the students something that isn't thought about, insurance and legislative policy. Another challenge that arose was the increase of cases of COVID-19. As of early March, we made sure to have hand sanitizer and minimized the person to person contact.

ACKNOWLEDGEMENTS

The California State University Chico 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. We'd like to thank Janiele for her time and knowledge to our kids. Her passion for the education of others is invaluable. Her motivation to help other is truly inspiring.

LIST OF ATTACHMENTS

No fliers were made for this visit. We sent multiple emails to the civil engineering students. Also, offered extra credit to a few classes.