

FRIEDMAN FAMILY VISITING PROFESIONALS PROGRAM

Visit to California State University, Sacramento: March 28, 2018



This report summarizes the visit of **Maryann Phipps** from Estructure that took place at the California State University, Sacramento on March 28, 2018.

ITINERARY OR AGENDA

Provide the itinerary of the visit. For example:

| TIME: | ACTIVITY: |
|-------------------|---|
| 5:30 PM – 6:00 PM | Student Chapter President meets & welcomes visiting professional to campus. Chapter student members, advisor, chapter professional members, and faculty arrive. Everyone introduces themselves. |
| 6:00 PM – 7:00 PM | Guest lectures on “How to Design a Good Building (and how to be a great engineer)”. |
| 7:00 PM – 8:00 PM | Presentation ends, social time with food and refreshments. |

STUDENT CHAPTER VISIT PLANNING COMMITTEE

LEAD ORGANIZER(S):

- Kylie Ahlstrand, Student Chapter President, kylie.ahlstrand@gmail.com
- Dr. Julie Fogarty, Chapter Faculty Advisor, fogarty@csus.edu

VISITING PROFESSIONAL LECTURE OVERVIEW

Maryann Phipps lectured on “How to Design a Good Building (and how to be a great engineer)”. The presentation was based on non-structural components of buildings, being a great civil engineer, and the expectations of a civil engineer in a professional work environment. Phipps began her presentation by introducing herself and giving a brief description of her area of expertise and had everyone in attendance do the same. This highlighted the importance of diversity by using our own chapter as an example. Phipps explained that diversity is important to ensure a project meets safety specifications, as it requires various areas of expertise to account for the potential hazards that civil engineers may not immediately identify. Attendees were deeply invested into the presentation and gave their own input to the conversation when the floor was open to comments. The presentation was wrapped up by emphasizing the importance of ethics in our work and that we must have a firm grasp of the importance in any project. Also, to be aware of our limits of our specialty and acknowledge the importance of having a wide array of specialists, not just engineers, when taking on any project.

Topics covered during the presentation included a history of previous disasters, and how such disasters could have been avoided. The importance of understanding non-structural components of a building. Recognizing that having a wide array of specialists from various fields helps insure that the safety of those residing in a structure is to the highest standard possible.



Maryann Phipps, President, Estructure, Oakland, CA Maryann is a practicing Structural Engineer with over 30 years' experience evaluating, designing and renovating buildings. Designing for post-earthquake resilience, as required in hospitals and critical laboratory facilities, represents the mainstay of her practice. She is a recognized expert in the seismic protection of nonstructural components and was the lead technical consultant for FEMA E-74 Reducing the Risks of Nonstructural Earthquake Damage, which received a 2012 Award of Excellence from the Structural Engineers Association of California. Maryann has "chased" many earthquakes and was co-leader for a FEMA-sponsored data collection effort following the South Napa Earthquake. Maryann is currently the lead technical director for ATC-120 providing recommendations for the future of nonstructural seismic design. Maryann is a Fellow and Past President of the Structural Engineers Association of California, a member of the California Hospital Safety Board and a member of the California State University Seismic Review Board.

SUPPLEMENTAL ACTIVITIES

Introductions

Upon the arrival of the visiting professional, Maryann Phipps introduced herself, where she comes from, her previous work experience, her current occupation, and how it is that she finds herself making presentations to chapters such as ours. After her introduction we spend the next half hour introducing ourselves.

Presentation

Phipps begins by lecturing on various historic civil engineering disasters and asks us what we believe went wrong and how such disasters could have been avoided. She continues with her presentation of how to design good buildings and how we can improve ourselves and engineers in the future. Emphasizing non-structural components, diversity, and ethics.

Post-Presentations

Meeting ends with a social with food and refreshments. All attendees converse with each other and our guest presenter, Maryann Phipps.

RESULTS, FEEDBACK AND LESSONS LEARNED

The lecture was very successful with a large attendance of the student chapter, professional chapter, and faculty. The speaker was engaging and could answer the array of questions attendees asked about the presentation, as well as other structural interests.

For future visits and related goals, the student chapter would like to know more about:

- Use and application of SAP 2000 in the professional world
- Geotechnical Earthquake Engineering

ACKNOWLEDGEMENTS

The California State University, Sacramento EERI Student Chapter gratefully acknowledges the support of the Friedman Family for sponsoring the travel of Maryann Phipps through their Friedman Family Visiting Professional Program endowment.

LIST OF ATTACHMENTS

Flier for event



**Earthquake Engineering
Research Institute**
California State University,
Sacramento
Student Chapter

Student Chapter Meeting

Speaker

Maryann Phipps, S.E.
President of Estructure, Oakland CA
Topic: How to Design a *Good* Building
(and how to be a great engineer)

Event Details

Date: Wednesday March 28th, 2018

Time: 5:30 – 7:00 pm

Social: 5:30 – 6:00 pm

Presentation: 6:00 – 7:00 pm

Location: Brighton Hall, Room 115