

# FRIEDMAN FAMILY VISITING PROFESSIONALS PROGRAM



## Visit to California State University, Chico: March 9, 2021

This report summarizes the visit of David Friedman from Forell and Elsesser that took place at the CSU Chico on March 9, 2021.

### ITINERARY OR AGENDA

TIME:	ACTIVITY:
4:45 PM – 5:00 PM	Student Chapter Officers join the zoom meeting to fix any technical malfunctions.
5:00 PM – 5:05 PM	Student Chapter President, Jack Anderson, introduces David Friedman.
5:05 PM – 6:30 PM	David Friedman begins to present his lecture to the CSU Chico Students.
6:30 PM – 6:45 PM	Virtual Audience asks David Friedman about his work and presentation.

### STUDENT CHAPTER VISIT PLANNING COMMITTEE

#### LEAD ORGANIZER(S):

- Jack Anderson, President, [janderson126@mail.csuchico.edu](mailto:janderson126@mail.csuchico.edu)
- Ernesto Alvarez, Outreach Coordinator, [ealvarez25@mail.csuchico.edu](mailto:ealvarez25@mail.csuchico.edu)
- Jordan Beach, Structural Design Lead, [jbeach4@mail.csuchico.edu](mailto:jbeach4@mail.csuchico.edu)
- Emily Jones, Architectural Design Lead, [ejones45@mail.csuchico.edu](mailto:ejones45@mail.csuchico.edu)
- Brea Rainey, Treasurer, [bmrainey@mail.csuchico.edu](mailto:bmrainey@mail.csuchico.edu)

Dr. Steffen Mehl, CSU Chico CE Department Chair

Dr. Jared DeBock, CSU Chico Professor

Dr. Curtis Haselton, CSU Chico Professor

Wes Hocking, CSU Chico Professor

## Lecture Abstract

Topics mentioned during the lecture/presentation:

1. Base Isolations: A Primer with Case Studies: San Francisco City Hall & UCSF Center for Regenerative Medicine.
2. The Practice of Structural Engineering Today with Project Examples: UCB Memorial Stadium, Stanford's McMurtry Hall, Facebook.
3. The Seismic Retrofit of California Memorial Stadium, UC Berkeley: Straddling the Hayward Fault.

## Professional Bio

David Friedman was the Senior Principal and immediate past President, CEO and Board Chair, with more than 35 years at Forell/Elsesser and almost 40 years in the industry, David's strength is a holistic approach to project's planning, design and construction, and the collaborative integration of creative structural solutions with architects, engineers, and builders. With a specialty in designated historic structures, David has creatively solved numerous engineering challenges. Principle examples of his solutions include the base isolation retrofits for both the San Francisco City Hall and Asian Art Museum, the adaptive reuse and retrofit for the San Francisco Conservatory of Music, and the seismic safety corrections and remodel of UC Berkeley's California Memorial Stadium.

## SUPPLEMENTAL ACTIVITIES

No supplemental documents or activities were done during the visit.

## RESULTS, FEEDBACK AND LESSONS LEARNED

- One obvious challenge was having our visiting professional come over Zoom, we hope next year this will not be an issue and that we will have a better turn out and be able to plan more activities.
- We really enjoyed hearing from someone with a focus in structural engineering and we think that we would like to continue to have more structurals because we feel it would be good to have even more exposure to that field

## ACKNOWLEDGEMENTS

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

## LIST OF ATTACHMENTS

Flyer: Flyer sent out to the CSU Chico Civil Engineering.

### CSU Chico's EERI Student Chapter Presents



David Friedman, Senior Principal, Forell/Elsesser, San Francisco, CA



Senior Principal and immediate past President, CEO and Board chair, with more than 35 years at Forell/Elsesser and almost 40 years in the industry. David's strength is a holistic approach to a project's planning, design and construction, and the collaborative integration of creative structural solutions with architects, engineers, and builders. With a specialty in designated historic structures, David has creatively solved numerous engineering challenges. Principle examples of his solutions include the base isolation retrofits for both the San Francisco City Hall and Asian Art Museum, the adaptive reuse and retrofit for the San Francisco Conservatory of Music, and the seismic safety corrections and remodel of UC Berkeley's California Memorial Stadium. The practicing structural engineer today must have a broad understanding of not just structural engineering, but must be knowledgeable about architecture, M/E/P systems, construction delivery methodologies, and the construction process. All projects come with their own litany of challenges and constraints, and the structural engineer is one of the key players in achieving the optimal solution: The project's budget, the selected performance and design criteria, the architectural form, and the operating systems all affect the selection of the appropriate structural materials and lateral force resisting system. Then the analysis must get translated into a design, and the design must clearly and carefully be delineated into construction documents including plans, details, sections and technical specifications, with appropriate attention to sequencing, phasing and constructibility. This all gives rise to the notion of today's structural engineer as a "Master Builder", one who can articulate their way through a complex labyrinth of form finding, criteria setting, risk evaluation, design and documentation, and construction.

Topics:

1. Base Isolation: A Primer with Case Studies: San Francisco City Hall & UCSF Center for Regenerative Medicine
2. The Practice of Structural Engineering Today with Project Examples: UCB Memorial Stadium, Stanford's McMurtry Hall, Facebook
3. The Seismic Retrofit of California Memorial Stadium, University of California, Berkeley: Straddling the Hayward Fault

