

FRIEDMAN FAMILY VISITING PROFESIONALS PROGRAM



Visit to California State University, Sacramento: March 27, 2019

This report summarizes the visit of **David Friedman** from San Francisco, which took place at Sacramento State on March 27, 2019

AGENDA

TIME:	ACTIVITY:
6:00pm – 6:30pm	Meeting with the speaker, set up, students & faculty gather.
6:30pm – 7:30pm	Main Speaker Presentation.
7:30pm – 8:00pm	Students have the opportunity to ask questions and speak with the speaker after the presentation, while having appetizers and food.

STUDENT CHAPTER VISIT PLANNING COMMITTEE

LEAD ORGANIZER(S):

Club Advisor: Julie Fogarty, Ph.D., Civil & Environmental Engineering

Student Chapter Leaders: Inna Radova & Harpreet Gill

VISITING PROFESSIONAL LECTURE OVERVIEW

David Friedman opened his presentation with a timeline of his professional career path and experience. The timeline provided the students with an insight of his journey starting from his education, to becoming a professional, as well as with the impact and contribution EERI had on his career. Upon joining EERI, Friedman shared several lessons learned from earthquakes, such as the Kobe earthquake in Japan (1996) and the Loma Prieta earthquake (1989) in San Francisco. Friedman continued the rest of the presentation with sharing about the base isolation retrofit of the San Francisco City Hall and the seismic retrofit of the California Memorial Stadium, which is located on the Hayward fault line in UC Berkeley.





David Friedman

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 constructability. 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.

RESULTS, FEEDBACK AND LESSONS LEARNED

The hosting of the visit of David Friedman went very well without any significant challenges in the process. The topic of seismic retrofit sparked student interest in earthquake engineering as well as brought more awareness of EERI and its mission.

ACKNOWLEDGEMENTS

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