This report summarizes the visit of Lindsey Maclise from Forell/Elsesser Engineers, Inc. that took place at the Stanford University on February March 13, 2024.

### Itinerary or Agenda

<table>
<thead>
<tr>
<th>TIME:</th>
<th>ACTIVITY:</th>
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</thead>
<tbody>
<tr>
<td>9:30 AM – 12:00 PM</td>
<td>Visiting Professional Arrives on Campus and attends the term project presentations for the nonlinear structural analysis course (CEE 282)</td>
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<tr>
<td>12:00 PM – 1:30 PM</td>
<td>Lunch with Stanford EERI board</td>
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<tr>
<td>2:00 PM – 3:30 PM</td>
<td>Walk tour on campus with buildings visiting professional has worked on</td>
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<tr>
<td>3:30 PM – 4:30 PM</td>
<td>Snack bar/Informal meeting with graduate cohort</td>
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<tr>
<td>4:30 PM – 5:50 PM</td>
<td>Visiting Professional Presentation</td>
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### Student Chapter Visit Planning Committee

**Lead Organizer(S):**

- Sergio Chimal Ramirez, President: chimal@stanford.edu
- Carmen Andrade von Hillebrandt, Vice President: candvon@stanford.edu
- Antonia Farina Silva, Activities Coordinator: afarina@stanford.edu
- Annabelle Tzou, Industry Coordinator: atzou@stanford.edu
- Juan David Real Di Bello, Treasurer: jdrdb99@stanford.edu
- Patrick Nieman, Secretary: pnieman@stanford.edu
- Anna Cecil, Media Coordinator: annace@stanford.edu
- Andres Arias Vasquez, SDC Coordinator: ariasaf@stanford.edu
- Prof. Gregory G. Deierlein, Faculty Advisor: ggd@stanford.edu
- Racquel Hagen, Blume Center Administrator: racquelh@stanford.edu
Lecture Abstract

The construction industry has traditionally been using materials with severe environmental implications. Recently, various strategies have been developed to address this problem, creating a web of startups that complicate efforts by design professionals to parse and specify more environmentally friendly concrete mixes and other products. The lecture outlines the current state of the art and best practices for a pragmatic and realistic implementation strategy for practicing engineers.

Professional Bio

Lindsey Maclise received her Bachelor’s and Master’s degrees from UC Berkeley. Lindsey works at Forell | Elsesser. She has been a licensed Structural Engineer and Principal since 2006. In addition to broad experience in retrofit and new construction projects, Lindsey has emerged as a leader in implementing sustainability solutions into design and construction practice. She has motivated green building practices and has authored several documents related to the structural engineer’s role in sustainable practice. Lindsey currently serves as a member of the Civil and Environmental Engineering (CEE) Advisory Board.

SUPPLEMENTAL ACTIVITIES

CEE 282 Term Project Presentations

Lindsey Maclise was invited along with project mentors to term project presentations for CEE282 Nonlinear Analysis. Lindsey offered valuable insight and advice to the students about their term project.

Example presentations:

Lunch with EERI board

Lindsey Maclise had an informal lunch with the EERI board. In this event, the EERI board was able to ask questions about her career and she asked the board about their reasons for choosing structural engineering and Stanford.
Walk tour

The Graduate Students joined a walk tour led by Lindsey Maclise, who has worked on some projects on campus. In that visit we visited the McMurtry Art and Art History Building and the Bass Biology Building, she explained some important aspects of the project, challenges during design phase and construction.

Informal Snack Bar

Before the lecture the graduate students and professors were able to meet informally with Lindsey Maclise. In this event the EERI board had a waffle bar. This served as an opportunity for people to talk with Lindsey Maclise more informally.
Lecture

The main lecture was focused about her experiences in the field regarding the inclusion of sustainability in her projects. Lindsey focused her presentation on alternative concrete that aims to reduce CO2 emissions on non structural elements as well as how to incentivize and negotiate with the client to apply these solutions.

RESULTS, FEEDBACK AND LESSONS LEARNED

One of the challenges during the process was to find activities to engage all the SEM community, since most of us have different schedules it was hard to find the best time for all of the students. We think we partly solved this by having a varied series of activities throughout the day.

Another challenge was engaging the undergraduate students. We wanted to organize a mock presentation for the SDC competition team, but due to time constraints of the undergraduate students this was not possible. In a future visit we hope to include an activity that includes undergraduate students.

There was a good reception to the program and Visiting Professional. People enjoyed the combination of her discussing her experiences with EERI and her professional experience with sustainability. Having the event as part of the SEM seminar also increased turnout. This was something that we recommended in last year’s report. However, the event occurred during the last week of the quarter and the day before the prospective student visit day, which we believe slightly decreased turnout. For future years, we hope to have the event during a less busy week in the quarter.

A goal we have for a future visit is including more people from the general civil engineering community. We wanted to advertise more to the students from the Sustainable Design and Construction program, but due to time constraints we were unable to advertise as much as we wanted.

ACKNOWLEDGEMENTS

The Stanford EERI Student Chapter gratefully acknowledges the support of the Friedman Family for sponsoring the travel of Lindsey Maclise through their Friedman Family Visiting Professional Program endowment. We also want to thank the Blume Earthquake Engineering Center for funding support concerning the lunch and the snack bar.
LIST OF ATTACHMENTS

- Item 1: Fliers

FRIEDMAN FAMILY VISITING LECTURE

SCHEDULE

Wednesday, 13 March, 2024

9:30 am - 12:00 pm  
Nonlinear Project Presentation  
Turing Auditorium

2:00 pm - 3:30 pm  
Walk tour on campus with food  
Meet at Blume

3:30 pm  
Waffle Bar  
Y2E2 Terrace

4:30 pm - 6:00 pm  
Lecture - SEM Seminar  
Y2E2 Room 111

Lindsey Maclise  
SE, LEED AP BD+C  
Principal at Forell+Elsesser

FRIEDMAN FAMILY VISITING LECTURE

Wednesday, 13 March, 2024

Lindsey Maclise  
SE, LEED AP BD+C  
Principal at Forell+Elsesser

Topic: State of Practice of Sustainability in Structural Engineering