

FRIEDMAN FAMILY VISITING PROFESSIONALS PROGRAM

2017-2018 ACADEMIC YEAR ACTIVITIES REPORT



OBJECTIVES:

The Friedman Family Visiting Professional Program aims to bridge the gaps between the academic and professional worlds of earthquake engineering and earthquake risk reduction by:

- Improving the understanding of students and faculty of the active professional earthquake engineering and risk reduction community;
- enhancing the students' understanding of the multi-disciplinary nature of earthquake engineering;
- Increasing the professional's understanding of the educational process;
- Utilizing the unique intellectual resources of EERI to broker useful relationships; and
- Using the resources of EERI to help students understand and consider professional careers associated with earthquake engineering and earthquake risk reduction.

With generous funding from the Friedman Family endowment, the program sends professionals to universities to provide a lecture and meet with students to discuss the options available to them upon graduation. These meetings also benefit the visiting professionals by increasing their understanding of the educational process experienced by young professionals now entering the field.

2017-2018 PROGRAM OVERVIEW:

The Friedman Family Visiting Professionals program launched in October for the 2017-2018 academic year. Eighteen visits were scheduled by 17 professionals from March to September 2018. Two visits are scheduled to occur in October 2018.

In September 2017, EERI staff and the FFVP chair reviewed the budget and clarified the program's operational procedure for the academic year.

In early October 2017, the program was advertised to EERI student chapters and an application form required student chapters to select their top 3 professionals and describe the reasons for their choices. Twenty-nine EERI student chapters applied to the program, and 24 were selected to participate. Selections were made based on the following criteria:

- Budget limitations
- Diversity in professionals selected
- Diversity in universities selected
- Providing opportunities to new chapters or chapters who have not had recent visits.
- Quality of description and reasoning for professionals in application form

Before the first visit, EERI staff launched the participating cohort of professionals by hosting a conference call to summarize the procedures and by reviewing the EERI introduction slides that describe EERI's mission, disciplines, and the benefits to students of being a member.

Upon the conclusion of the spring visits, student chapters were required to complete a report summarizing the visit and submit it via a questionnaire designed to solicit their feedback on the success of the program and areas for improvement. The reporting template has streamlined visit feedback. More timely reporting could be achieved by providing a deadline to student chapters.

The template includes the following sections:

- Itinerary or Agenda
- Student Chapter Planning Committee
- Visiting Professional Lecture Overview
- Supplemental Activities
- Results, Feedback and Lessons Learned
- Acknowledgements
- List of Attachments

Visiting professionals were also asked to complete an evaluation that would help EERI staff improve the program. Generally, feedback from the professionals was very good and will help improve our program in the coming academic year. More details about the results of these evaluations are included later in this report.

LIST OF VISITING PROFESSIONALS:

Below are the names of the visiting professionals participating in the program during the 2017-2018 academic year, along with their firm and disciplinary area of expertise

- David Cocks, Structural Focus, Structural Engineering Expert
- Ronald Eguchi, ImageCat Inc., Expert in Risk Analysis, Lifelines, and Industrial Facilities
- David Friedman, Forrel/Elsesser Engineers Inc., Structural Engineering Expert
- Ramin Golesorkhi, Langan, Geotechnical Engineering Expert
- Nathan Gould, ABS Consulting, Structural Engineering Expert
- John Hooper, Magnusson Klemencic Associates, Structural Engineering Expert
- Annie Kammerer, Annie Kammerer Consulting, Expert in Risk Analysis, Lifelines, and Industrial Facilities
- Janiele Maffei, California Earthquake Authority, Structural Engineering Expert
- Faiz Makdisi, Sage Engineers, Geotechnical Engineering Expert
- Jim Malley, Degenkolb Engineers, Structural Engineering Expert
- Ron Mayes, Simpson Gumpertz & Heger, Structural Engineering Expert
- Jorge Meneses, RMA Group, Geotechnical Engineering Expert
- Farzad Naeim, Farzad Naeim Inc., Structural Engineering Expert
- Sissy Nikolaou, WSP | Parsons Brinckerhoff, Geotechnical Engineering Expert
- Maryann Phipps, Estructure, Structural Engineering Expert
- Jay Wilson, Clackamas Co Emergency Management, Resilience Coordinator
- Ivan Wong, Lettis Consultants International Inc, Expert in Seismology

SELECTED UNIVERSITIES:

Twenty-four universities were selected to participate in the 2017-2018 program. Complete reports summarizing each visit have been submitted by the participating universities and can be found in PDF format on EERI's website at: <https://www.eeri.org/projects/friedman-family-visiting-professionals-program/reports/>

BRIGHAM YOUNG UNIVERSITY

David Friedman visited on March 22, 2018. He was hosted by:

- Co-Presidents Michael Reynolds and Zachary Barnett
- Secretary Mary Ririe
- Faculty Advisor Paul Richards

Many students have an increased interest in joining the EERI BYU Student Chapter as a result from the presentation. David's valuable advice and reports on his case studies are still talked about a week after the event.

CALIFORNIA STATE UNIVERSITY, SACRAMENTO

Maryann Phipps visited on March 28, 2018. She was hosted by:

- President Kylie Ahlstrand
- Faculty Advisor Dr. Julie Fogarty

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.

CORNELL UNIVERSITY

Ivan Wong visited on May 1, 2018. He was hosted by:

- President Bill Wu
- Vice President Yolanda Lin

We did not face many challenges while preparing for Ivan's visit. Coordinating meetings with EAS and CEE faculty took some effort but was manageable. Ivan enjoyed his meetings, and catching up his longtime friend Dr. Tom O'Rourke. A large turnout was present at his lecture, including faculty and students from both CEE and EAS.

JOHNS HOPKINS UNIVERSITY

Ronald Mayes visited May 2-3, 2018. He was hosted by:

- President Fardad Haghpanah
- Faculty Advisor Dr. Benjamin W. Schafer

Dr. Mayes's visit was a successful event; our students benefited from his professional perspective on seismic resilience and his suggestions about their future careers. Specifically, undergraduate students learned more about the concept of building resilience, and the graduate students acquired some new insights.

LEHIGH UNIVERSITY

Ron Eguchi visited on April 6, 2018. He was hosted by:

- President Liyang Ma
- Vice President Safwan Al-Subaihawi
- Public Relations Chair Alia Amer
- Treasurer Christopher Irwin
- Secretary Fahim Rustamy
- Faculty Advisor James Ricles
- Faculty Paolo Bocchini
- IT Manager Peter Bryan

The seminar with Mr. Eguchi is very rewarding for the students. After the seminar, there are many questions and discussions regarding the remote sensing technology introduced by Mr. Eguchi. We all gained some valuable knowledge and made a professional connection with Mr. Eguchi. A future goal of the chapter is to increase the undergraduate student's involvement by more advertisements targeting undergraduate students.

MCMASTER UNIVERSITY

Faiz Makdisi visited on April 4, 2018. He was hosted by:

- President Bryanna Noade
- VP of Finance Kevin McNamara
- VP Communications Paul Stenecker
- General Member (previous president) Taylor Steele
- Faculty Advisor Dr. Dimitrios Konstantinidis

Due to being located in Canada our university semesters are off set from those of U.S. universities, this resulted in the timing of the visit to be scheduled based on Makdisi's availability during the last week of classes in our winter semester. We believe students would be more receptive to the day's social activities if the visit was scheduled within the middle of the semester rather than in the final days. However, aside from the social activities throughout the day the guest lecture itself was well attended, Makdisi himself commented that he believes it was the most attended lecture he has given.

NORTH CAROLINA STATE UNIVERSITY

Annie Kammerer visited on April 20, 2018. She was hosted by:

- President Zachary Krish
- Secretaries Christopher Price and Ariadne Palma
- Faculty Advisor Dr. Mervyn Kowalsky

Overall the event went very smoothly, from the planning process through the day of Dr. Kammerer's visit. This lecture has become an event that our student chapter looks forward to each year, as we have hosted several Friedman Family Visiting Professionals in recent years. The reception of the lecture was tremendously positive with many students, faculty, and local professionals in attendance.

PORTLAND STATE UNIVERSITY

Jay Wilson visited on April 9, 2018. He was hosted by:

- Event Coordinator Melissa Preciado
- Communications Officer Mario Yescas
- EERI PSU members Ke Lilah Slingluff, Joy Sherman-Lewis, and Tsun-Ming Jonathan Sze
- Faculty Advisor Dr. Arash Khosravifar

The event was very well attended with 75-100 people present. Since Mr. Wilson is a local representative, we believe the public was able to really listen to what he had to say. The advice he gave the audience in terms of being involved and in-the-know about the Oregon's Resiliency Plan was powerful. It surely made many wanting to be more involved in the community.

PURDUE UNIVERSITY

Farzad Naeim plans to visit October 15-16, 2018.

STATE UNIVERSITY OF NEW YORK, BUFFALO

Faiz Makdisi visited on April 6, 2018. He was hosted by:

- President Rimjhim Kashyap
- Treasurer Fernando Szasdi
- Senator Rahul Raman

- Senator Anil Tripathi
- Senator Damian Andreani
- Senator Christian Chacon
- Senator Kareem Eltouny
- Senator Pathik Baruwal
- Senator Hernan Martin Hernandez
- Senator Claudia Murillo
- Senator Richa Todi
- Senator Gauri Chandore
- Member Siddharth Parida
- Faculty Adviser Andreas Stavridis

Overall this was a great experience. It was fun to have Dr. and Mrs. Makdisi visit UB and spend time with our chapter. It was their first time in this area and it was really interesting hosting them. Dr. Makdisi gave valuable advice for the student chapter and the seismic design team, as well as all the graduate students about studies and career.

UNIVERSITY OF CALIFORNIA, LOS ANGELES

Ron Eguchi visited on May 8, 2018. He was hosted by:

- President Eric Roberts
- Speaker Coordinator/SLC Representative Yi Tyan Tsai
- Speaker Coordinator Saman Abdullah
- Treasurer Agam Tomar

During the event, Mr. Ron Eguchi went through his personal experiences as a working professional, and civil engineering student at UCLA. Both attending professors, Dr. Jonathan P. Stewart and Dr. Scott J. Brandenburg, and a few of their PhD students were able to interact more casually with him as well. There were fourteen attendees, most being PhD students with four undergraduate students.

UNIVERSITY OF CALIFORNIA, SAN DIEGO

Jorge Meneses visited on May 21, 2018. He was hosted by:

- President Ismaail Ghaaowd
- Vice President Muhammad Zayed
- Secretary Radhavi Samarakoon
- Treasurer Lan Luo
- Faculty Advisor John McCartney

The professional visit was a successful event and benefited the geotechnical students at UCSD and the geotechnical professionals in San Diego area. In the seminar, Dr. Meneses provided a great visionary talk about "Seismic Ground Motions for Evaluation of Liquefaction Triggering and Settlement".

UNIVERSITY OF CALIFORNIA, DAVIS

Jim Malley enjoyed his visit, which was on May 15, 2018

UNIVERSITY OF COLORADO, BOULDER

Jorge Meneses gave two presentations and toured the labs. He was impressed by the organization of the activities.

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

Farzad Naeim plans to visit October 15-16, 2018.

UNIVERSITY OF MASSACHUSETTS - AMHERST

Sissy Nikolaou visited on April 20, 2018. She was hosted by:

- President Michael Morano
- Vice President Fiona O'Donnell
- Treasurer Rachel Wang
- Faculty Advisor Dr. Scott Civjan
- Structural Engineering Faculty Dr. Sergio Brena

The Friedman Family Visiting Professional visit was very successful. The students and faculty at UMass Amherst found the talk given by Sissy Nikolaou to be very interesting, describing a human consideration that is often overlooked in a technical academic curriculum. The informal meeting with students provided an opportunity for networking as well as insight into available opportunities for industry jobs after graduation.

UNIVERSITY OF NEVADA, RENO

Ramin Golesorkhi visited on March 30, 2018. He was hosted by:

- President Elmira Shoushtari
- Secretary Swasti Saxena
- Historian Negar Naeimi
- Treasurer Mohammad Abbasi
- Faculty Advisor Dr. Ramin Motamed, Ph.D. PE

Visiting Professional Program at UNR was truly successful. Dr. Golesorkhi kindly shared his valuable knowledge and experiences from his several years of research and engineering. His talk at the career guidance session seemed to provide the much-needed help for students exploring different career options. Some of the topics that are of interest and would be good for future visits are: wind engineering, performance-based seismic design and risk assessment, and seismic protection of non-structural components

UNIVERSITY OF NOTRE DAME

David Friedman visited on April 24, 2018. He was hosted by:

- Vice President Dimitrios Patsialis
- Faculty Advisor Alexandros Taflanidis

Having David Friedman visit Notre Dame as a Friedman Family Visiting Professional was a terrific experience for EERI student chapter. He was an excellent resource for the graduate student chapter, providing insight on the current issues that face earthquake engineers. Additionally, David gave an excellent presentation which was appropriate for the diverse audience including undergraduate students, graduate students, and faculty members. David was excellent to work with, bringing a great attitude and excellent discussion to every meeting he was in and was enjoyable to guide the entire day. The Notre Dame EERI student chapter is grateful for David Friedman's willingness to participate and is eager to take advantage of the Friedman Family Visiting Professional Program in years to come.

UNIVERSITY OF WISCONSIN - MADISON

John Hooper visited on May 1, 2018. He was hosted by:

- President Ángel L. Pérez Irizarry
- Vice President Mohamed Al-Tameemi

- Secretary Han Xiao
- Chapter Role Vinay Damodaran
- Faculty Advisor Gustavo J. Parra-Montesinos

Our student chapter did not face any noteworthy challenges during the professional's visit. The biggest challenge for us as a chapter is recruiting students interested in earthquake engineering in a region of the U.S.A. that is not threatened by earthquakes regularly. Some of the topics that are of interest and would be good for future visits are: Repair and retrofit of reinforced concrete and vulnerable structures, lessons learned from recent earthquakes and engineer's role in earthquake reconnaissance work, efficient use of viscous dampers and base isolation techniques, mitigation of the effects of soil liquefaction on our built environment.

VIRGINIA POLYTECHNIC INSTITUTE & STATE UNIVERSITY

David Cocke visited on April 6, 2018. He was hosted by:

- President Cole Jaconski
- Vice President Raul Avellaneda
- Treasurer Logan Perry
- Secretary Cody Furrow
- Seismic Design Team Advisor Wendy Reyes
- Interim Faculty Advisor Dr. Koutromanos

The reception after the presentation was perfect way for students to engage with Mr. Cocke. Our chapter would like to continue this activity for all future guest speakers.

2017-2018 OUTCOMES AND ACCOMPLISHMENTS:

The 2017-2018 program achieved great success, as shown in the evaluation forms.

"Dr. Mayes's visit was a successful event; our students benefited from his professional perspective on seismic resilience and his suggestions about their future careers. Specifically, undergraduate students learned more about the concept of building resilience, and the graduate students acquired some new insights."

-Johns Hopkins University

"The lecture was very informative and we had the best attendance to any activity so far. It was very good to bring a practicing engineer in the area of earthquake engineering because it significantly helps raising awareness of the challenges and needs of the earthquake engineering community, particularly in the Midwest, where the general public rarely thinks of earthquake hazards. This is something that the structural engineering faculty and us as a student chapter are committed to do through research, instruction and student activities."

- University of Wisconsin - Madison

GOALS, PLANS, AND ACTIVITIES FOR 2018-2019 ACADEMIC YEAR

For the 2018-2019 academic year the committee plans to schedule at least 18 university visits pending a detailed budget assessment.

We plan on having more consistent staff support for the 2018-2019 academic year. Our hope is this will create a consistent schedule and more follow up with the program. We plan to collect more quantifiable data from our visits to better track the program as a whole. We will begin asking student chapters to report how many undergraduate and graduate students, and faculty members attended the event.

LIST OF ATTACHMENTS

See the Friedman Family Visiting Professional webpage for report downloads and other information:

<https://www.eeri.org/projects/friedman-family-visiting-professionals-program/>