

FRIEDMAN FAMILY VISITING PROFESIONALS PROGRAM



Visit to Purdue University: March 01, 2016

This report summarizes the visit of **Richard Eisner, FAIA** to Purdue University on March 01, 2016.

ITINERARY OR AGENDA

TIME:	ACTIVITY:
11:00 AM	Arrived at Purdue University
12:00 NOON- 1:00PM	Student Chapter Vice-President meets & welcomes Visiting Professional to campus; Lunch with Vice-President and EERI Officer
1:15 PM – 2:00 PM	Tour of Bowen Lab for Large-Scale Civil Engineering Research
2:00 PM – 2:30 PM	Tour of Campus and Civil Engineering Building, Received by Chapter President and EERI Officer
2:30 PM – 3:00 PM	Meeting with Dr. Rao. S. Govindaraju, Head of Civil Engineering
3:10 PM – 3:40 PM	Meeting with Dr. Mete Sozen, Kettlehut Distinguished Professor of Civil Engineering
3:45 PM – 4:25 PM	Meeting with EERI Chapter leadership and members
4:30 PM – 5:30 PM	Visiting professional lecture
6:00 PM – 7:30 PM	Dinner with student chapter members at local restaurant

STUDENT CHAPTER VISIT PLANNING COMMITTEE

LEAD ORGANIZER(S):

- | | | |
|------------------------|----------------|--|
| • Yunlan Zhang | President | zhan1337@purdue.edu |
| • Aishwarya Y. Puranam | Vice-President | apuranam@purdue.edu |
| • Ryan Whelchel | Secretary | rwhelch@purdue.edu |
| • Lucas Laughery | Webmaster | llaughter@purdue.edu |
| • Rachel Chicci | Social Chair | rachel.chicchi@gmail.com |
| • Aman Anand | Treasurer | anand17@purdue.edu |

VISITING PROFESSIONAL LECTURE OVERVIEW

Mr. Eisner's lecture coincided with the weekly CE 691s seminar series. This seminar series brings in industry professionals and academics in structural engineering to talk about recent work. The presentations nearly always have a strong structural engineering focus.

Mr. Eisner's presentation was an insightful departure from typical CE691s lectures: instead of structural engineering, he emphasized the importance of planning and preparing for the worst case scenario. He used examples from Japan's response to recent events to highlight ways in which cities and regions can prepare for disasters that can disrupt infrastructure.

Lecture Abstract

The consequences of an earthquake represent the convergence of not just seismicity with engineering design, but of land use and development decisions, architectural design, community demographics, cultural history and traditions; and the resilience of individuals, families, communities, businesses, infrastructure and government and non-government organizations. The impacts are not isolated to a single building or structure, but more often community wide or regional, with damage and disruption (physical, economic and social) compounded and complex. In 2011, Japan's world class engineering design and construction practices, research facilities, real time seismic networks and warning systems, and community education programs were challenged by a complex, compound disaster that "exceeded expectations."

Professional Bio

An independent consultant after two decades as Administrator of the California Governor's Office of Emergency Services (OES) Coastal Region, Richard Eisner developed and managed the State's Earthquake and Tsunami Preparedness Programs and the California Integrated Seismic Network. From 2006 to 2009 he was a consultant to the Fritz Institute on a Bay Area earthquake preparedness initiative, developing a process to prepare non-government organizations for disaster response. In 2010 he was a Visiting Professor at Kyoto University focusing on community resilience and compound disaster risk management. An architect, urban planner, and urban designer, a key element of his work is integration of knowledge from the earth and social science communities into mitigation and preparedness programs. He has served on EERI's Board of Directors, been elected of the College of Fellows of the American Institute of Architects, and is a member of the National Earthquake Hazards Reduction Program Advisory Committee and the Board of Directors of the National Institute of Building Sciences.

SUPPLEMENTAL ACTIVITIES

Tour of Bowen Lab for Large-Scale Civil Engineering Research

Lucas Laughery gave Mr. Eisner a tour of Bowen Lab. He explained ongoing projects, available laboratory resources, recent renovations, and upcoming projects.

Informal meeting with Chapter leadership, officers and members

Mr. Eisner met with Chapter leadership and officers. Student members and Mr. Eisner discussed the chapter activities, challenges, and future plan of the chapter.

RESULTS, FEEDBACK AND LESSONS LEARNED

Because Purdue is only 2-3 hours from Chicago but is in a different time zone, often there are difficulties in coordinating a schedule with visitors. This time, ample communication beforehand between the chapter leadership and the speaker ensured smooth scheduling. Moreover, sharing the speaker with the nearby UIUC chapter made Mr. Eisner's travel even more worthwhile.

Overall, Mr. Eisner was well-received, both by the Purdue EERI chapter and other students in the department of civil engineering. Students at the seminar appreciated seeing earthquake engineering from a different perspective: that of the person planning, rather than the person building. The use of media and examples from a recent event made it more interactive and memorable. Although the EERI Purdue Student Chapter is mostly structural engineering students, we would be interested in having more speakers visit from outside the structural engineering discipline in the future.

ACKNOWLEDGEMENTS

The Purdue University EERI Student Chapter gratefully acknowledges the support of the Friedman Family for sponsoring the travel of Richard Eisner through their Friedman Family Visiting Professional Program endowment.

LIST OF ATTACHMENTS

Included at the end of this report are various attachments to supplement the information included above. A list of the attachments is included below:

- 1: Email announcement of the event
- 2: Photograph following Mr. Eisner's lecture

Sample email announcement sent to CE faculty and CE structural engineering students.

PURDUE UNIVERSITY
Lyles School of Civil Engineering
Joint EERI and Structural Engineering Seminar

Preparing for the Worst Case... Because it Just Might Happen
By

Richard Eisner, FAIA

Tuesday, March 1, 2016
Seminar | 4:30 pm | Room 1144 Hampton Hall

All Students Invited to Reception
4:00 pm | Room 1129 Hampton Hall

2: Mr. Eisner and Prof. Sozen having a discussion following the lecture.

