FRIEDMAN FAMILY VISITING PROFESIONALS PROGRAM

Visit to University at Buffalo: April 16, 2021

This report summarizes the visit of **Ezra Jampole** from Exponent that took place at the University at Buffalo on April 16th 2021. The event was conducted online via Zoom considering the situation with COVID.

ITINERARY OR AGENDA

Provide the itinerary of the visit. For example:

TIME:	**ACTIVITY:**
10:00 AM – 10:30 AM	Meeting with the student chapter leadership from this year (and next year's leaders if possible)
11:00 AM – 12:00 PM	Guest lecture by Visiting Professional
2:00 PM – 3:00 PM	Speed interviews with department graduate students (soon to be graduating

STUDENT CHAPTER VISIT PLANNING COMMITTEE

LEAD ORGANIZER(S):

- Rohit Ranjan Singh, President, rsingh44@buffalo.edu
- Sai Sharath Parsi, Treasurer, saishara@buffalo.edu
- Kaivalya M Lal, Senator, klal@buffalo.edu
- Rahul Raman, Senator, rraman2@buffalo.edu
- Vidhi Solanki, Senator, solankiv@buffalo.edu
- Faizan Mir Ul Haq, Senator, faizanul@buffalo.edu
- Prof. Andreas Stavridis, Faculty Advisor, astavrid@buffalo.edu

VISITING PROFESSIONAL LECTURE OVERVIEW

Student attendance was encouraging as we had over 35 graduate students who attended the lecture online. Dr. Jampole provided a brief overview of EERI and different ways graduate student and/or young professionals could get involved with EERI. Ezra's lecture mainly covered the legal disputes that can arise and how forensic structural engineering helps in settling the disputes. The lecture was quite engaging as he encouraged students to identify the causes of failure. The lecture ended with Q/A session where students were able to ask their doubt.

Lecture Abstract

In an ideal world, an engineer's involvement in a structure would end after construction is finished. But the reality is that many structures are subject to costly litigation or arbitration because of allegations of inadequate design or performance. Additionally, when a structure is subjected to extreme loading such as from an earthquake, insurance disputes arise regarding the source of damage and if the damage was caused by the

earthquake, and who is responsible. This talk will review the types of legal disputes that structural engineers can find themselves in and how expert witnesses are used to sort through the issues and provide independent opinions. Several case studies on earthquake engineering disputes will be discussed, including: alleged reduction in the earthquake-resisting capacity of a building because of water intrusion; distinguishing between damage caused by earthquakes and caused by other actions following a large earthquake, the alleged insufficient earthquake resistant design of transportation infrastructure in a high-seismic zone, and more.

Professional Bio

Dr. Jampole is a managing engineer at Exponent in New York City. He specializes in risk analysis and performance of structures subjected to extreme loads such as earthquakes, wind, and flood events. He has served as a consultant on projects assessing the origin of damage to structures following natural disasters, adjacent construction incidents, corrosion and deterioration, settlement, and long-term issues. He has substantial experience investigating the engineering standard of care for complex energy and infrastructure projects.

Dr. Jampole also currently serves as an adjunct professor at the New Jersey Institute of Technology, where he teaches a graduate course on structural dynamics and researches high-performance concrete materials. He is extensively involved in the EERI through their Learning from Earthquakes Program and Younger Members Committee.

SUPPLEMENTAL ACTIVITES

{Meeting with UB-EERI chapter}

Dr. Jampole briefly met with the chapter at UB before the lecture. There was an informal discussion regarding his involvement with EERI, his experience in the academic and professional field of engineering. Brief discussions on how COVID has altered the current year activities of UB-EERI were held. We also shared our personal experiences with earthquake and post-earthquake activities.

{Guest Lecture}

Dr. Jampole provided a brief overview of EERI and different ways graduate student and/or young professionals could get involved with EERI. Ezra's lecture mainly covered the legal disputes that can arise and how forensic structural engineering helps in settling the disputes. The lecture was quite engaging as he encouraged students to identify the causes of failure. The lecture ended with Q/A session where students were able to ask their doubts.

{Speed Interviews}

Dr. Jampole met with graduating MS and PhD students to discuss the state of professional engineering, review resumes, and conduct speed interviews.

RESULTS, FEEDBACK AND LESSONS LEARNED

Overall this was a great experience. It was fun to have Ezra visit UB and spend time with our chapter. The students thoroughly enjoyed the lecture. The topic was very different than what we were used to discussing in the classrooms. Ezra made the lecture very engaging as the students were putting in their views and opinions as well.

ACKNOWLEDGEMENTS

The University at Buffalo EERI Student Chapter gratefully acknowledges the support of the Friedman Family allowing UB-EERI to host the program through their Friedman Family Visiting Professional Program endowment. We

would also like to thank Silvana for coordination to make the event successful. Many thanks to all of the UB students, faculty and especially Prof. Stavridis for their help in organizing the event.

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:

- Flier for the event
- Screenshot of Zoom participants

University at Buffalo
Department of Civil, Structural and Environmental Engineering
School of Engineering and Applied Sciences

FRIEDMAN FAMILY VISITING PROFESSIONAL LECTURE

EARTHQUAKE ENGINEERING RESEARCH INSTITUTE
UNIVERSITY AT BUFFALO STUDENT CHAPTER

Legal and Insurance Disputes in Earthquake Engineering

Ezra Jampole, Ph.D., P.E

Exponent, Inc.

Abstract

In an ideal world, an engineer's involvement in a structure would end after construction is finished. But the reality is that many structures are subject to costly litigation or arbitration because of allegations of inadequate design or performance. Additionally, when a structure is subjected to extreme loading such as from an earthquake, insurance disputes arise regarding the source of damage and if the damage was caused by the earthquake, and who is responsible. This talk will review the types of legal disputes that structural engineers can find themselves in and how expert witnesses are used to sort through the issues and provide independent opinions. Several case studies on earthquake engineering disputes will be discussed, including: alleged reduction in the earthquake-resisting capacity of a building because of water intrusion; distinguishing between damage caused by earthquakes and caused by other actions following a large earthquake, the alleged insufficient earthquake resistant design of transportation infrastructure in a high-seismic zone, and more.

Short Bio

Dr. Ezra Jampole visits the University of Buffalo as part of the Earthquake Engineering Research Institute (EERI) Friedman Family Visiting Professionals Program.

Dr. Jampole is a managing engineer at Exponent in New York City. He specializes in risk analysis and performance of structures subjected to extreme loads such as earthquakes, wind, and flood events. He has served as a consultant on projects assessing the origin of damage to structures following natural disasters, adjacent construction incidents, corrosion and deterioration, settlement, and long-term issues. He has substantial experience investigating the engineering standard of care for complex energy and infrastructure projects.

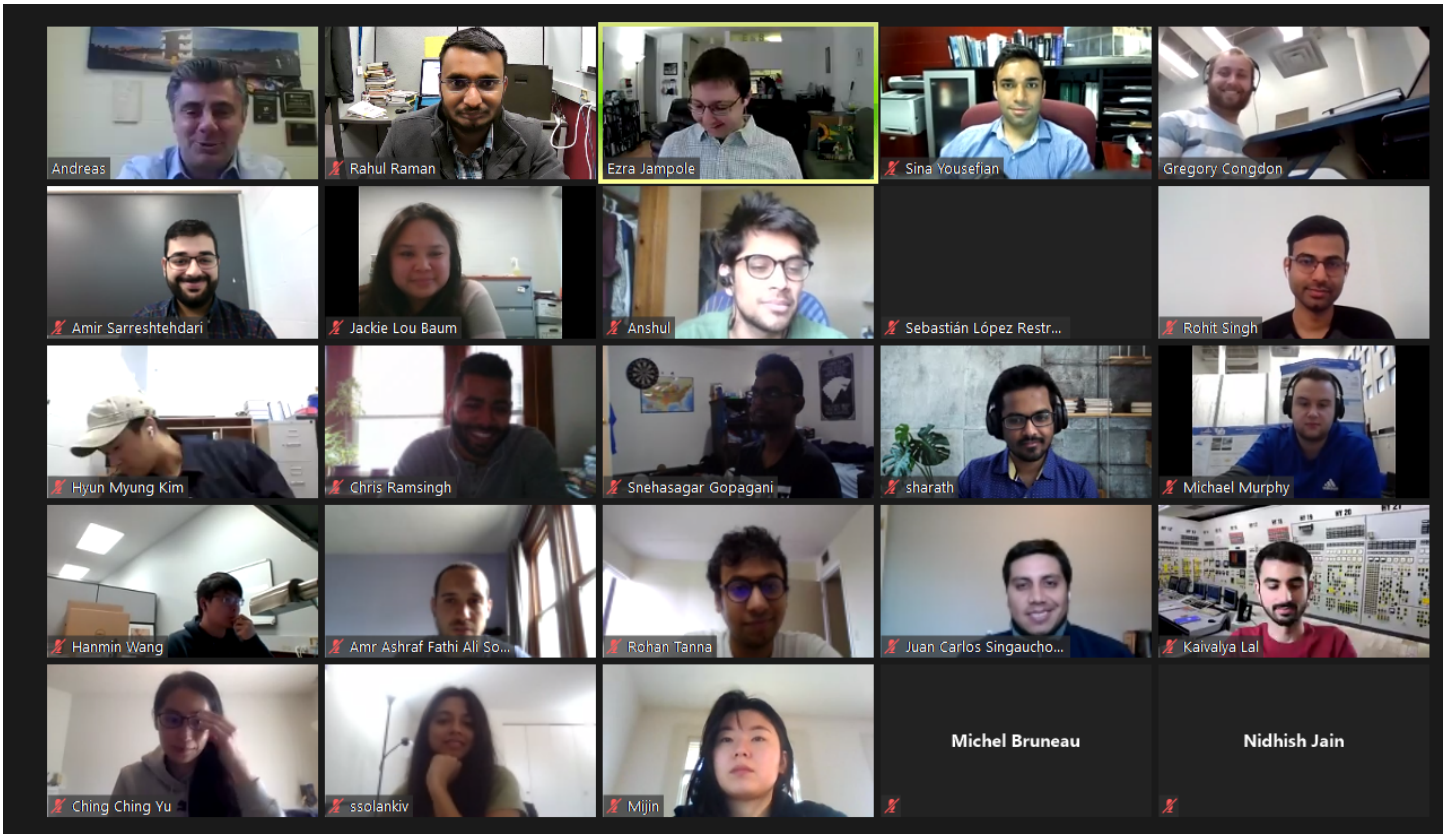
Dr. Jampole also currently serves as an adjunct professor at the New Jersey Institute of Technology, where he teaches a graduate course on structural dynamics and researches high-performance concrete materials. He is extensively involved in the EERI through their Learning from Earthquakes Program and Younger Members Committee.

Date: Friday, April 16th, 2021 Time: 11.00 am

https://buffalo.zoom.us/j/95714296187?pwd=SGc5Zk1kdW1Oc1h0dzZOUU5sa0lDUT09

(Meeting ID: 957 1429 6187; Passcode: 841083)

University at Buffalo



Screenshot of the participants post lecture