

FRIEDMAN FAMILY VISITING PROFESIONALS PROGRAM



Visit to University of Notre Dame: March 16, 2016

This report summarizes the visit of **Dr. Elizabeth Hausler Strand** from Build Change that took place at the University of Notre Dame on March 16, 2016.

ITINERARY

| TIME: | ACTIVITY: |
|---------------------|--|
| 9:00 AM – 10:00 AM | Engineering2Empower Founder and EERI student chapter member meets and welcomes Dr. Hausler Strand to campus. |
| 10:00 AM – 11:00 AM | Meetings between Dr. Hausler Strand and selected Faculty members |
| 11:00 AM – 12:15 PM | Meeting between Dr. Hausler Strand and Engineering2Empower Undergraduate Research Team |
| 12:15 PM – 1:30 PM | Lunch with EERI graduate students where they present, share, and discuss research projects to get insight and feedback from Dr. Hausler Strand |
| 1:30 PM – 2:30 PM | Meetings between Dr. Hausler Strand and selected Faculty members |
| 2:30 PM – 3:00 PM | Meeting between Dr. Hausler Strand and Department Chair |
| 3:00 PM – 3:30 PM | Break before Seminar |
| 3:30 PM – 4:30 PM | Seminar given by Dr. Hausler Strand |
| 4:30 PM – 5:30 PM | Tour of Notre Dame's campus given by EERI student chapter members |
| 5:30 PM – 7:00 PM | Dinner with student chapter and faculty members at local restaurant |

STUDENT CHAPTER VISIT PLANNING COMMITTEE

LEAD ORGANIZER(S): Kevin Fink, Chapter President, kfink2@nd.edu

- Theresa Aragon, Chapter Vice-President, tarragon@nd.edu
- Alex Taflanidis, Chapter Faculty Advisor, ataflani@nd.edu
- Erik Jensen, Chapter Member, ejensen3@nd.edu

VISITING PROFESSIONAL LECTURE OVERVIEW

Dr. Hausler Strand gave an incredibly insightful and engaging presentation regarding the barriers to seismic resiliency facing construction efforts in developing nations. Dr. Elizabeth Hausler Strand discussed her journey to becoming the founder and CEO of Build Change, and her organization's approach to promoting safe building practices.

Lecture Abstract

Build Change is an award-winning non-profit social enterprise that saves lives in earthquakes and windstorms by working with people in emerging nations to build houses and schools that don't collapse in them. Dr. Elizabeth Hausler Strand, Build Change's Founder and CEO, will

describe the organization's work with governments in Asia and Latin America to develop easy to implement building guidelines for new construction and retrofitting. Build Change trains all stakeholders in disaster-resistant design and construction, including engineers, government officials, builders, vocational students, and homeowners. Build Change creates jobs and promotes economic development by building capacity of local building materials producers to make and market higher quality products. And, Build Change partners with the financial and insurance sectors to facilitate access to capital for construction, using it as an incentive for complying with building standards and limiting opportunities for corruption. Build Change currently operates in Guatemala, Colombia, Haiti, Nepal, Indonesia and the Philippines.

Professional Bio

Dr. Elizabeth Hausler Strand is the Founder and CEO of Build Change, an international, non-profit social enterprise that saves lives in earthquakes and windstorms in emerging nations by working with people to build houses and schools that don't collapse on them. Build Change operates in Colombia, Guatemala, Haiti, Indonesia, Nepal, and the Philippines. Elizabeth was inducted into the UC-Berkeley Civil and Environmental Engineering Department Academy of Distinguished Alumni in 2014. She is the 2011 Schwab Foundation US Social Entrepreneur of the Year, winner of the 2011 Lemelson-MIT Award for Sustainability, a 2009 Ashoka-Lemelson Fellow, 2006 Draper Richards Kaplan Fellow, 2004 Echoing Green Fellow, and a Fulbright scholar to India in 2002-2003. Dr. Hausler Strand is a skilled brick, block, and stone mason with an M.S. and Ph.D. in civil engineering from the University of California, Berkeley.

SUPPLEMENTAL ACTIVITIES

Lunch with EERI Graduate Students

Dr. Hausler Strand had an informal lunch with approximately ten graduate student members of the EERI chapter, where she was able to share her experiences as a graduate student and the experiences that led her to found Build Change. She fielded questions ranging from career advice to the technical aspects of designing confined masonry structures in resource-deprived settings. Additionally, graduate students shared their research projects with Dr. Hausler Strand, discussing objectives, challenges, and future work.

Meeting with Engineering2Empower Undergraduate Research Team

Engineering2Empower is an organization of Notre Dame Faculty and students that have developed and implemented an alternative housing model in post-quake Haiti. Engineering2Empower undergrads conduct experimental research throughout the academic year concerning proposed design iterations. Dr. Hausler Strand was able to meet with these students and provide invaluable feedback to their work and discuss the successes and challenges Build Change has encountered throughout its own pursuit of seismic resiliency.

Dinner with Student Chapter and Faculty Members

Dr. Hausler Strand had dinner at a local restaurant with three EERI chapter members and two Faculty members. This was an incredible opportunity to get to know Dr. Hausler Strand on a more personal level.

RESULTS, FEEDBACK AND LESSONS LEARNED

Having Dr. Hausler Strand visit Notre Dame as a Friedman Family Visiting Professional was a terrific experience for EERI student chapter. She was a joy to work with, gave an excellent lecture, and provided both life advice and engineering expertise to the students she met with. The organization, planning, and execution of her visit all

went incredibly smoothly. The Notre Dame EERI student chapter is grateful for Dr. Hausler Strand's willingness to participate and eager to take advantage of the Friedman Family Visiting Professional Program in the years to come.

ACKNOWLEDGEMENTS

The University of Notre Dame EERI Student Chapter gratefully acknowledges the support of the Friedman Family for sponsoring the travel of Dr. Elizabeth Hausler-Strand 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:

- Item 1: Event Flier
- Item 2: Event Itinerary