



EARTHQUAKE ENGINEERING  
RESEARCH INSTITUTE

STUDENT CHAPTER  
PURDUE UNIVERSITY

**FRIEDMAN VISITING PROFESSIONAL LECTURE**

**JOHN HOOPER**

EVENT DATE: October 25, 2011

EVENT LOCATION: Purdue University

LECTURE TITLE: Performance Based Seismic Design: Today and Tomorrow

ABSTRACT:

The presentation will discuss the current use of Performance-Based Seismic Design (PBSD) in steel buildings as well as its future applicability. The presentation will showcase the use of PBSD on the recently-completed Providence Everett Medical Center in Everett, Washington, highlighting the benefits of PBSD as it relates to understanding the building's anticipated seismic performance and providing a more efficient design. The future of PBSD as it is outlined in ATC-58 *Guidelines for Seismic Performance Assessment of Buildings*, which is a probabilistically based approach and a significant departure from the approach currently used, will also be presented.

ITINERARY:

*Monday, October 24, 2011*

John arrived in Lafayette on Monday night. The officers of EERI took John out to dinner at a local brewery, Lafayette Brewing Company. We were able to get to know John better and talk about our research and experiences at Purdue.

*Tuesday, October 25*

John indicated he was a runner and would like to go for a run with some students. The president of the EERI chapter here at Purdue took John for a run around campus showing him all of the engineering buildings, the sports complexes and talked about some engineering projects which Purdue has been involved with over the last few years.

The EERI president then gave John a tour of the Bowen Laboratory which is located off campus.

Throughout the rest of the day, professors met with John and took him to lunch. EERI had arranged to have a special reception for John prior to the lecture so that students could come and speak with him in a more intimate setting. After the lecture, which was held from 4:30-5:20 pm in the Civil Engineering Building, John drove to U. Illinois to give another presentation to their EERI Chapter.

#### PICTURES:

Below are pictures taken during the reception and the lecture:



Photo 1: Reception held for John Hooper



Photo 2: Students listening to John speak about his experiences in Structural Engineering



Photo 3: John Hooper's lecture to Purdue University



Photo 4: John Hooper with the officers of EERI at Purdue University