“Major Role of Landform and Soil Profile in Earthquake Damage Prediction”

It is well known that the surface soil condition and micro topography influence the seismic intensity of the ground and hence impact structural damage to the civil infrastructure during earthquakes. This seminar will begin with an overview of damage occurring in recent earthquakes in Japan, followed by an introduction to earthquake damage prediction efforts. The damage predictions conducted by a local government of Chiba prefecture, a part of the Tokyo metropolitan area, will be reviewed with an emphasis on the importance of local landform and soil profile to this work. In the final part of the seminar, how the theory of elastic wave propagation, classification and optimization can contribute to damage predictions will be reviewed.

Monday, Sep. 21, 2009
JHU Homewood Campus
Computational Science and Engineering Building
CSEB B17
12:00 – 12:50 pm

Seminar is FREE. For parking please see link for visitors at www.jhu.edu and select information on Homewood Campus.
One Professional Development Hour (PDH) will be awarded to attendees.