Announcement

CE 767: Earthquake Engineering

Spring, 2005

TTH: 9:30-10:45

Dr. John W. van de Lindt

CE 767 will be taught by Professor van de Lindt this Spring semester. The course will include subjects such as elastic rebound theory, response spectrum analysis, inelastic oscillators, energy dissipation, constant-ductility response spectra, deterministic and probabilistic seismic hazard analysis, incremental dynamic analysis, equivalent lateral force procedure, response of linear and nonlinear buildings, power spectral density estimation of ground motions, response spectrum compatible ground motion generation, intro to earthquake building codes, and performance-based seismic design concepts and procedures.

The course will culminate with an earthquake shake table competition between two groups made up of students in the class. The new frame/shake table (see Figure 1) will be complete in February and will be used to determine which teams model predicts their buildings damage most accurately.

If you have any questions about the class – please e-mail me at jwv@engr.colostate.edu or call at 1-6605. Also, for more information on earthquake engineering, visit my website at www.engr.colostate.edu/~jwv/.

The prerequisite is basic vibrations or at least an understanding of structural dynamics.

FIG 1: The frame pictured to the right will be used for the student competition in CE 767 this Spring.