

GROUP MEMBERS:

## CE 8060 – STRUCTURAL DYNAMICS Homework #9

Assigned: Tuesday, September 16, 2014  
Due: Thursday, September 18, 2014 (beginning of class)

Homework must be done neatly in pencil, on 8 ½”x 11” paper, stapled together. Each step must be easily followed; diagrams are useful. Your assumptions must be clearly stated.

*Make Sure to Include The Cover Page!*

*Make Sure to Write Both Group Members' Names!*

In this assignment, a simple experimental test on a cantilever beam will be conducted in the white house. The experiment setup will be available there on Monday, September 15<sup>th</sup> from 8:00 am. to 5:00 pm. With the help of TA, each group is asked to collect a set of the time history acceleration data from the system. Then, based on the experimental measurement, determine the damping ratio of the cantilever beam system.

The location of the white house is shown in the map below:

