

Amherst College
Department of Geology

Homework #1: EARTHQUAKE HAZARDS
February 5, 2010

You are assigned the viewing of one of two hour-long video programs (but you are welcome to watch both!), which are available through the College's "Video on Demand" system. They are:

- 1) The City that Waits to Die (San Francisco), and,
- 2) Killer Quake! (Los Angeles)

To access the programs, go to the College's Library webpage at: <http://www.amherst.edu/library/>
On the right side of the page click on "Articles/Videos" under "Find My Course Reserves". This will lead you to a list that includes these two videos.

The videos are also available on the Geo 11 CMS web site (see Peter if you cannot access this).
The videos are under E-Reserves.

This home work is due, in class, on ****Friday, February 12****

As you watch the video, make a list of each different hazard that earthquakes pose to man-made structures. As you do this, try to think like a city planner.

Which hazards can be mitigated by building codes?

Which by an emergency response plan? Which by a zoning law?

On **your list**, indicate whether the severity of the hazard is a function of the design and engineering of the structure itself, the nature of the earthquake that occurs, and/or the geologic character of the site of the building.