

### III. Earthquake Safety

#### A. Earthquake Risk

1. Where faults are active
2. Eastern U.S. low risk
3. Western U.S. more risk

#### B. How Earthquakes Cause Damage

1. Damages buildings, water and gas mains
2. Loose soils shakes more violently than dense soil
3. Liquefaction- turns soil into liquid mud- likely where there is a lot of moisture
4. Aftershocks- an earthquake that occurs after a larger earthquake
5. Tsunamis- Water displaced by earthquakes cause Tsunami's

#### C. Protecting Yourself During an Earthquake

1. Drop, cover and hold
2. Go to an open area if you are outside
3. Earthquake kit- food, water and first aid

#### D. Making Buildings Safer

1. Should be strong yet flexible
2. Location- not on steep hills and not near fault lines
3. Base-isolated building- reduces the amount of energy that reaches the building