

san francisco

c a r d

community  
agencies  
responding to  
disaster

NOVEMBER 2007

Dear Bill,

Here is our newsletter for the month of November. Please enjoy this month's newsletter and if you have an opportunity please forward our newsletter onto your colleagues and peers.

Thanks for your continued interest and support of SF CARD - have a wonderful month and a happy holiday!

Warmest Regards,

Alessa & Brian

**In This Issue**

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**BEYOND THE BUILDING -  
Advice from a structural engineer on earthquake safety and how to  
continue operations post disaster.**

*What are things nonprofit and congregational leaders should look for when they are reviewing their facilities for potential earthquake hazards?*

*Unreinforced Masonry (commonly called URM)  
Soft-Story Building, typically where the ground floor walls are almost all storefront windows or garage doors*

*"Tilt-Up" (often used for warehouses)*

*Non-ductile concrete (typically pre-1976 or so)*

<http://www.abag.ca.gov/bayarea/eqmaps/business/>

[http://www.seismic.ca.gov/pub/CSSC\\_2006-02\\_COG.pdf](http://www.seismic.ca.gov/pub/CSSC_2006-02_COG.pdf)

*In the aftermath of an earthquake, what steps can nonprofit and congregational leaders take to determine whether or not it is safe to use their facilities?*

[http://pge.com/safety/prepare\\_natural\\_disasters/earthquakes/index.html](http://pge.com/safety/prepare_natural_disasters/earthquakes/index.html)

[http://www.sfgov.org/site/dbi\\_index.asp](http://www.sfgov.org/site/dbi_index.asp)

***Disaster Tip:***

*Is most facility mitigation based upon infrastructure or are there many actions leaders can take today to make their facilities safer?*

For more information on this topic or help with your organizations planning efforts for continuity of operations, please contact Brian at 415-982-8999 ext 236 or [brian@sfcard.org](mailto:brian@sfcard.org).

**Agency Emergency Plan - Step 4**

Step 4 of an Agency Emergency Plan will be included in next month's newsletter.

**Disaster Survival Recipes - Smores That Needs Not Heat**

***Ingredients:***

- a. *Marshmallow cream (melted marshmallow ready to use)*
- b. *Gram crackers*
- c. *Choice of favorite chocolate bar or chocolate cream, such as Nutella.*

### *Materials needed*

●□□□□□□ *Plastic Knife*

●□□□□□□ *Human Fingers*

### *Directions:*

Step 1: Open the marshmallow cream and spread it on one side of a gram cracker (please note: if you are having trouble opening the lid, you can try opening it with a rubber band by placing the rubber band in the middle of the lid and then turn with your hands).

Step 2: On the other gram cracker, spread on the chocolate cream or pile on pieces of your favorite chocolate bar.

Step 3: Take both gram crackers and form them into a sandwich and enjoy!

### **Earthquake Crossword Puzzle**

To help you pass the time or just test or gain knowledge about earthquakes and earthquake safety, please tackle the crossword puzzle. The puzzle was borrowed from ABAG (<http://www.abag.ca.gov/bayarea/eqmaps/>).

The answers will be provided in our next month's newsletter. If you are really dying to know the answers, please contact Brian at [brian@sfcad.org](mailto:brian@sfcad.org) or follow this link to ABAG's website: <http://www.abag.ca.gov/bayarea/eqmaps/xwordansw.html>.

The clues to the puzzle are provided for you below and to access the crossword puzzle please follow this link: <http://www.abag.ca.gov/bayarea/eqmaps/xword.html>.

#### **Here are the clues:**

#### **ACROSS**

1 - Approximately 300,000 people will be forced from their \_\_\_\_\_ should a magnitude 7 or greater earthquake occur on the Hayward fault.

6 - One of the key ways to design a building to resist earthquakes is to connect, or \_\_\_\_, it together.

7 - When the ground shakes, it is better to take cover under a \_\_\_\_\_ than stand.

8 - When engineers first started to worry about earthquake shaking, they drew on their experiences in designing buildings to resist \_\_\_\_\_.

13 - Always wear \_\_\_\_\_ on your feet when groping around at night after an earthquake to avoid getting cut by shards of glass.

- 16 - Breaks in the earth's crust called \_\_\_\_\_ are the source of earthquakes in the Bay Area.
- 17 - Put a battery-operated flash \_\_\_\_\_ in your earthquake supply kit.
- 18 - There is at least a \_\_\_\_\_ in three chance of a magnitude 7 or larger earthquake in the Bay Area in the next 30 years.
- 19 - The American \_\_\_\_\_ Cross is charged with coordinating shelter and feeding after earthquakes.
- 20 - Use common, not box, \_\_\_\_\_ to attach plywood to the outside wall of the crawl space.
- 21 - Be sure and have a battery-operated \_\_\_\_\_ for listening to emergency communications broadcasts after a major earthquake.
- 22 - \_\_\_\_\_ your home's foundation sill plate (mud sill) to its foundation.
- 26 - It's important to focus on planning for an earthquake ahead of time, or \_\_\_\_\_ (slang).
- 28 - The most common type of fault in the Bay Area is a strike-\_\_\_\_\_ fault, where one side of the fault moves past the other.
- 30 - The longest and most famous of these faults in the Bay Area is the \_\_\_\_\_ (two words) fault, the source of the 1906 San Francisco earthquake.
- 32 - It is important not to \_\_\_\_\_, even if the ground shakes!
- 34 - Some businesses apply to this U.S. agency for low-interest loans following disasters such as earthquakes (initials).
- 35 - The Loma Prieta earth \_\_\_\_\_ occurred on the 17th of October, 1989.
- 36 - Be \_\_\_\_\_ for our next earthquake by having phone contacts established ahead of time.
- 37 - Most damage in earthquakes is caused by ground \_\_\_\_\_.
- 39 - Go \_\_\_\_\_ a desk or table when you feel the ground start to shake!
- 41 - Sometimes, earthquakes can trigger land \_\_\_\_\_ on hillsides.
- 44 - The Governor's \_\_\_\_\_ (initials) is the emergency response arm for California.
- 46 - Both the Kobe and \_\_\_\_\_ earthquakes occurred on January 17th!
- 47 - Learn to stop, \_\_\_\_\_, and hold.
- 48 - People too scared or unable to stay in their homes may end up sleeping in \_\_\_\_\_ cities.

**DOWN**

- 2 - Liquefaction can occur if loose and water-saturated \_\_\_\_ is shaken in an earthquake.
- 3 - Take classes in \_\_\_\_\_ aid so that you can help injured family, friends and co-workers.
- 4 - The fault which runs along the Hwy. 680 corridor in central Alameda County is the \_\_\_\_\_ fault.
- 5 - This federal agency is the federal government's emergency response agency (initials).
- 8 - It is very important to strap your home's \_\_\_\_\_ to the wall so that it won't fall over, breaking the gas line and perhaps starting a fire (two words).
- 9 - As scouts say, " \_\_ Prepared."
- 10 - The shaking is amplified the higher up one goes in a building; equipment on \_\_\_\_\_ is particularly susceptible to damage if not properly tied down.
- 11 - The most important word in real estate is "location," while the most important word in home and apartment retrofit is " \_\_\_\_\_ " (a building material).
- 12 - In general, the \_\_\_\_ of homes is important in predicting earthquake damage; homes built prior to World War II can have problems.
- 14 - Latches need to be installed on cabinet doors or they will swing \_\_\_\_\_ and dishes or chemicals can fall.
- 15 - The Concord-Green Valley fault is a \_\_\_\_ - slip fault.
- 16 - Put canned or dried \_\_\_\_ in your earthquake supplies.
- 23 - The tops were snapped off redwood \_\_\_\_ in the Loma Prieta earthquake.
- 24 - Don't shut off \_\_\_\_ unless you smell it; utility crews may take weeks to relight pilots.
- 25 - The most dangerous fault in the Bay Area runs along the densely populated eastern side of the Bay, the \_\_\_\_\_ fault.
- 27 - Apartment buildings with tucked-under \_\_\_\_\_ or a full floor of (same word) are more likely to be damaged than those without (same word).
- 29 - People have no \_\_\_\_ that the ground can shake so hard that they are thrown out of bed.
- 31 - Earth \_\_\_\_\_ happen less frequently in California than Alaska!
- 32 - Another type of fault less common in the Bay Area is a \_\_\_\_\_ fault, where ground on one side moves up and over ground on the other.
- 33 - If you are not prepared, you have only yourself to \_\_\_\_\_.
- 38 - There is a real \_\_\_\_ in the Bay Area of earthquakes.

40 - Many \_\_\_\_ and highways will be closed temporarily after future Bay Area earthquakes.

42 - Preparedness can only make a \_\_\_\_ in the earthquake problem; it is also important to take action to correct those problems.

43 - \_\_\_\_ through chemicals in your garage and keep them on shelves with lips so they don't fall during an earthquake.

45 - Many problems after an earthquake \_\_\_\_ from people denying that we live in earthquake country.