



## Association of Environmental & Engineering Geologists San Francisco Section

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ANNOUNCING THE AEG SAN FRANCISCO SECTION  
MAY 2012 MEETING

### GEOLOGY AND GEOHAZARDS OF ALCATRAZ ISLAND (AND OTHER COOL BEHIND THE SCENES PICTURES)

William (Bill) McCormick, PG, CEG, Kleinfelder

#### MEETING DETAILS

##### Restaurant

Sinbad's  
Pier 2 Embarcadero Street  
San Francisco, CA

[Map](#)

##### Date and Time

Tuesday, May 8<sup>th</sup>, 2012  
6:00 pm—Social Hour and Sign-in  
7:00 pm—Dinner  
8:00 pm—Presentation

**Cost:** \$45 Members & Members' spouses; \$50 Non-Members, \$20 for Students

##### **Menu**

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|---------------------|--------------------|
| 🍷 Salmon Florentine | 🍷 Chicken Picatta  |
| 🍷 Snapper           | 🍷 Shrimp Louis     |
| 🍷 London Broil      | 🍷 Vegetarian Pasta |

**Reservations\*:** To RSVP, please fill out the online form at <http://goo.gl/dJY83> by **12 PM, Friday, May 4, 2012**

**Driving Directions:** From the Bay Bridge, take the Fremont Street Exit and the Folsom Street Ramp. Go left (east) on Folsom Street, then left (north) onto the Embarcadero (Herb Caen Way). The driveway for Sinbad's is on the right, south of the historic Ferry Building. Please watch out for the pedestrians and cyclists when turning into the driveway. Thank you.

**BART Directions:** Exit the Embarcadero Station; walk up Market Street toward the Ferry Building (less than ½ a mile toward the Bay and to the east). Cross Embarcadero and Sinbad's is located next to the Alameda ferry pier on the south side the historic Ferry Building.

**Parking:** \$5 valet parking is available or there are meters located on nearby side streets.

\*Please RSVP in advance. Walk-ins are welcome, but not guaranteed. No shows will be charged.

**See next page for abstract and speaker biography.**

## Featured Speaker

### Abstract

The history of Alcatraz Island in San Francisco Bay is an intriguing story starting with its Spanish discovery in 1769, construction and occupation as a US Army fortress to protect the bay in the 1850's, additional use as a military prison from the 1860's, a federal prison from 1933-63, Native American occupation in 1969 to protected National Park in 1973. Geologically and culturally speaking, the island has been referred to as "The Rock", or a nondescript mass of Cretaceous greywacke sandstone. With the passage of time, un-engineered cut and fill slopes and steep perimeter coastal bluffs have eroded and failed, adding to the demise of historic improvements on the site. Kleinfelder was charged with performing the first comprehensive geologic hazards study of the island to assess the geologic character of the island, identify geologic hazards, shoreline erosion processes and to rank the relative risk of these hazards as it relates to existing structures and public safety. Detailed geologic mapping of the site discovered previously undocumented bedrock faults, "younger" unconformable terrace deposits as well as many areas of adverse-dip wedge and rockfall hazards. This talk highlights the importance of "good old-fashioned" engineering geologic mapping to produce a useful geologic base reference and a geotechnical risk document that can be used by the NPS to prioritize areas of risk for future study, mitigation for preservation and protection of public safety. It also has some pretty cool "behind and under the scenes" photos not available to the general public.

### Speaker Biography

William (Bill) V. McCormick is a Principal Engineering Geologist with Kleinfelder in the Santa Rosa, CA office. Bill received his Bachelors and Masters degrees in Geology from San Diego State University. In addition, Bill is a California Professional Geologist and Certified Engineering Geologist, with over 25 years of geologic/geotechnical and emergency response in Northern California. Bill has published numerous papers on landslide/geologic hazards assessment and mitigation and currently resides in Sonoma County, California.

**Thank you for the RSVP! See you on **Tuesday, May 8<sup>th</sup>, 2012****