



San Francisco Bay Area Section



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SECTION

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April 10, 2012, Meeting Notice

Date	Location
Tuesday, April 10th	Zio Fraedo's Restaurant 611 Gregory Lane, Pleasant Hill, CA. (925) 933-9091

Cost: \$15 NACE members \$25 non-members

Time: 6:00 PM Hospitality • 7:00 PM Dinner • 8:00 PM Program
Please RSVP by **Friday, April 6th** by e-mail to **Dan Day** at danday94@pacbell.net, or by phone at (510) 507-0013.

Directions: Take I-680 north to Contra Costa Blvd. Exit 49A in Pleasant Hill and drive north. Pass Monument Blvd. then turn left onto Gregory Lane. Pass Brandon Rd. on left in 1 mile. Look for Zio Fraedo's on the right just before Pleasant Hill Rd.

Take I-680 south, exit at Sun Valley/Willow Pass Rd. Drive west and turn left on Contra Costa Blvd., then right on Gregory Lane and follow the instructions above. (see map on back page).

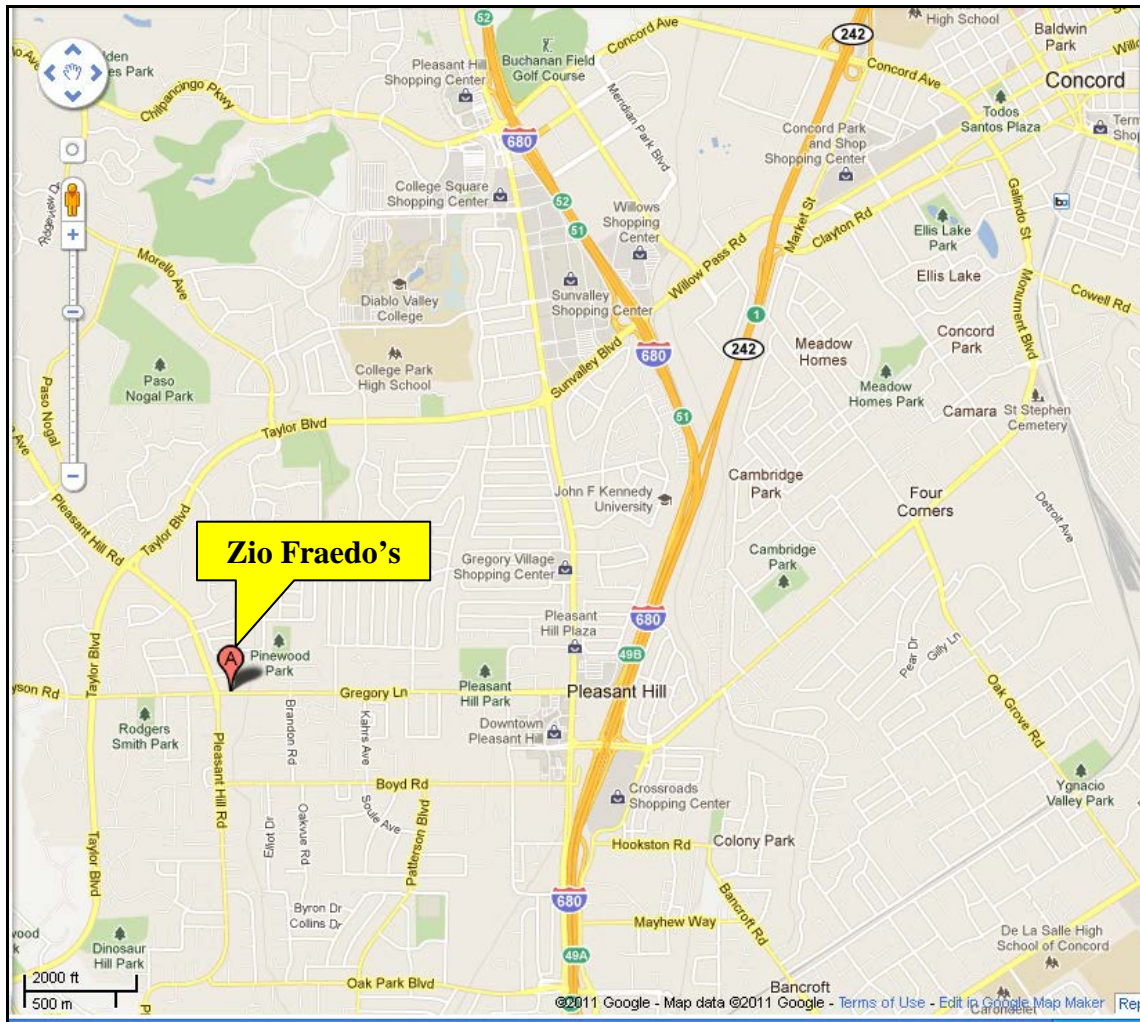
Challenges of a Corrosion Control Program for a Fleet of Gas Fired and Geothermal Power Plants

Presented by Mark Middleton
Corrosion Engineering Manager, Calpine

This presentation will discuss the challenges associated with initiating a corrosion control program to protect underground piping systems associated with a fleet of natural gas power plants. Attendees will benefit from hearing the lessons learned from addressing diverse corrosion design and maintenance issues on a large number of power plants at geographically separated sites. Topics include:

- Coating performance
- Cathodic protection
- Bi-Metallic corrosion caused by copper ground grids
- AC ground faults
- Steady state AC and DC interference
- DCVG and close interval survey testing
- Corrosion failure analysis
- HCA, DOT and gathering gas pipelines
- Designing CP systems for new power plants
- Providing remedial repairs to old plants

Mark Middleton is the Corrosion Engineering Manager with Calpine and has over 30 years of corrosion experience. He is a NACE Corrosion Specialist as well as NACE certified in CIP and Internal Corrosion. In 1993, he was Chairman of the Bay Area Section of NACE. He graduated from Morehead State University with a BS in Material Science.



Zio Fraedo's Restaurant, 611 Gregory Lane, Pleasant Hill, CA. 925-933-9091

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