



NACE
INTERNATIONAL

SAN FRANCISCO
SECTION

Please Join Us... September 8, 2015

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| Date | Location |
|------------------------|--|
| Tuesday, September 8th | Zio Fraedo's Restaurant 611 Gregory Lane, Pleasant Hill, CA. (925) 933-9091 |

Time: No Host Bar 5:30 pm • Dinner 6:30 pm • Program 7:15 pm
Cost: \$15 NACE members, NACE retirees and students
\$25 non-members

Please RSVP by Thursday, September 3rd by email to Michelle Anderson at mlanderson@corrpro.com, or by phone at (510) 381-1414.

*To insure affordable gatherings, please plan to pay the dinner fee when you attend the no-host bar portion of our program.
Cancellation deadline is Friday, September 4th.*

Location / Directions: Please see attachment "Meeting Location"

Internal Corrosion Management as it Applies to Upstream / Midstream Oil and Gas Production and Transmission

Craig Stuart, P.E.
Alisto Engineering Group

The speaker presentation will provide an overview of oil and gas production methods: primary, secondary (produced water flooding), and tertiary (propane and carbon dioxide flooding/SAGD) technologies. The types of internal corrosion in oil and gas and the associated damage morphologies of hydrogen sulfide, carbon dioxide, MIC, and under-deposit attack will be described. The factors that drive internal corrosion, such as acid gas partial pressure, multiphase flow regimen/scale disruption and formation water buffering capacity will be presented. Corrosion mitigation techniques including aggressive pigging, continuous and batch corrosion inhibition, and cathodic protection will be discussed. Corrosion monitoring methods such as weight loss coupons, residual chemical analysis, ER, LPR, EIS, ECN, Field Signature Method, and ILI (inline inspection) will be introduced.

Craig Stuart has over 14 years of international experience in corrosion engineering including: chemical corrosion control, internal/ external corrosion monitoring, coatings evaluation and selection, cathodic protection and failure analysis. His current scope of work includes detailed design, consultation services, specialized field surveys (CIS, ACVG and DCVG) and testing (ECDA), integrity data evaluation and analysis, reporting, quality management, project management and construction supervision. He has extensive experience in the design of CP Systems for various structures including cross country oil and gas pipelines, above grade storage tanks, underground storage tanks, underground vessels, interior of tanks and vessels, offshore sheet and tubular piles, offshore pipelines, remote monitoring systems, and interference mitigation studies. Mr. Stuart has extensive experience in the management of internal corrosion for pipelines, vessels, storage tanks and primary oil/ gas process units. Craig is a licensed professional engineer, a NACE Cathodic Protection Specialist, a certified Corrosion Technician, and a member of the Association of Professional Engineers, Geologists and Geophysicists of Alberta.

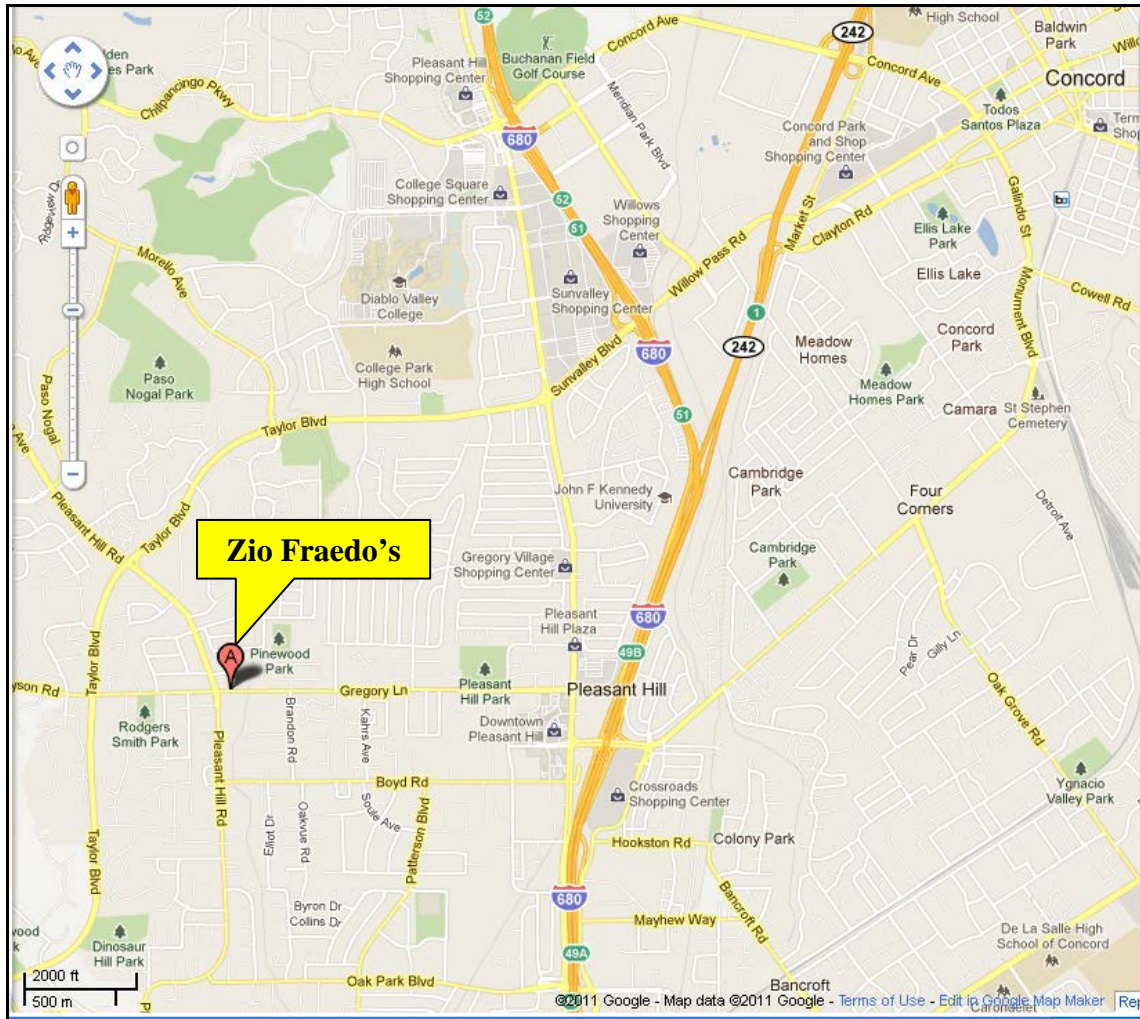


NACE INTERNATIONAL SAN FRANCISCO SECTION

MANY THANKS TO OUR 2015 SPONSORS!!



San Francisco Bay Area Section Meeting Location and Directions



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

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. After 1 mile drive past Brandon Rd. on the left; Zio Fraedo's will be on the right before Pleasant Hill Rd. intersection.