



San Francisco Bay Area Section



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October 8, 2013, Meeting Notice

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

**Cost: \$15 NACE members \$25 non-members
\$10 Students and Retirees**

Time: 5:30 PM No Host Bar • 7:00 PM Dinner • 7:45 PM Program
Please note: If you attend the No Host Bar you must pay the Dinner fee!
Please RSVP by **Friday, October 4th** by e-mail to **Michelle Anderson** at mlanderson@corrpro.com, or by phone at (510) 381-1414.

Directions and Map: Please see “Newsletter Back Page” attachment

**Deterioration of Wastewater Treatment and Collection System
Assets: Knowing Where and How to Look**

R. A. Nixon, Principal Consultant - Corrosion Probe, Inc.

After 35 years or longer in service, the infrastructure in wastewater collection systems and treatment plants has deteriorated due to various corrosion and physical degradation mechanisms. This paper reviews the major mechanisms that cause deterioration of metals, concrete, and other materials of construction including protective coatings. Also, examples of infrastructure degradation are presented along with a discussion of the best diagnostic methods for condition assessment of the various materials of construction. In short, this paper tells you where to look for various corrosion and damage mechanisms and how to assess the extent of the damage.

Randy Nixon is President and Founder of Corrosion Probe, Inc. which has been in business for over 29 years, and has an international reputation for excellence in corrosion and materials engineering, consulting, testing, and inspection services. Corrosion Probe is a consulting engineering firm that provides engineering, testing, failure analysis, inspection, and project management services for metals corrosion, concrete deterioration, protective coatings, infrastructure rehabilitation, materials science, mechanical integrity evaluation and retrofit design, and QC/QA inspection. CPI also operates a full capability testing laboratory for failure analysis, metallurgical testing, non-metals testing, and electrochemical corrosion testing.

Mr. Nixon began his career with Georgia Pacific Corp. in 1976 in water/waste water engineering, construction, and utilities management. Between 1979 and 1983, he served in management of specialty contracting services and coatings engineering business for two other firms. Mr. Nixon has published over 30 technical papers and articles through SSPC, NACE, TAPPI, AWWA, WEF and NEWEA. He is widely recognized in the water/wastewater industry for his experience in piping corrosion, concrete degradation evaluation, and coatings/linings for concrete substrates.



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