

## J. DARBY HOWARD, JR., P.E.

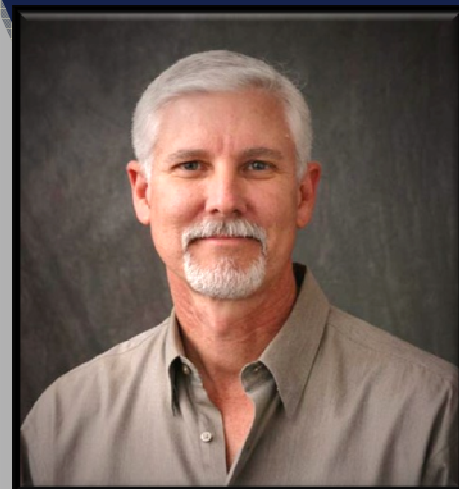
### SUMMARY

Over thirty (30) years of experience in all phases of corrosion projects including design engineering, manufacturing, research and development, construction inspection services, construction management, sales and marketing and litigation expert witness. Have successfully worked with clients in the fields of aerospace, marine, petroleum, chemical, mining and minerals, water and wastewater treatment and transmission, electric power industry, transportation systems, municipalities and state and federal government agencies. Established a proven track record for the ability to manage and direct complex research and design projects, requiring the coordination of strict budgets and demanding schedules with engineering staff and project teams.

Special areas of expertise include cathodic protection design, installation, monitoring, troubleshooting, surveying, adjusting and repairing for underground pipelines, pile supported structures, seawalls, retaining structures, marine vessels, storage tanks, condenser water boxes, cooling water lines, intake structures, traveling screens and water wells. Additional expertise in the diagnosis of internal and external corrosion problems associated with copper piping systems such as thermogalvanic corrosion, high temperature corrosion, velocity related corrosion and corrosion related to cold water pitting phenomena, failure analysis of building plumbing systems, conducting soil corrosivity studies, expert witness for litigation support.

### PUBLICATIONS & SEMINARS

- ▶ Ali, M. & Howard Jr., J.D. Corrosion Investigation of Steel H-Piles. NACE Corrosion Conference 1990.
- ▶ California State Water Resources Control Board, Seminars throughout state, “**Corrosion and Corrosion Control for Underground Storage Tanks**”, 1994-1995.
- ▶ Cal/Nev Section of AWWA, Fall Conference, 1994-1995, “**Corrosion Control for Water Wells**”.
- ▶ San Francisco Bay Area NACE Conference, August, 1996, “**Corrosion Concerns of the Water Industry**”.
- ▶ California Water Environment Association, Northern Regional Conference, Sept., 1996, “**Metal Selection and Corrosion Control for Water and Soil Environments**”.
- ▶ American Society of Civil Engineers, Bay Area Geotechnical Committee, April 1999, “**Guidelines for Soil Corrosivity Testing and Laboratory Analysis**”.
- ▶ East Bay Engineers Society, Fairfield, CA, Spring 2004 “**What All Civil Engineers Should Know About Corrosion and Corrosion Control**”.
- ▶ NACE Western Area Conference, Oct. 2008 “**How to Conduct an Evaluation of Asbestos-Cement Pipe**”.
- ▶ NACE Western Area Conference, Oct. 2008 “**Case Study of Prestressed Precast Concrete Pile Failures**”.



### EDUCATION

Bachelor of Science –  
Civil/Structural Engineering,  
University of Florida

MBA Courses (2 years) -  
Northern Illinois University

### REGISTRATIONS

- ▶ Registered Professional Civil Engineer, CA (C44435)
- ▶ Registered Professional Corrosion Engineer, CA (CR1055)
- ▶ Registered Professional Civil Engineer, NV (019295)
- ▶ Registered Professional Engineer, IL (inactive)

### EXPERIENCE

President/Owner  
**JDH Corrosion Consultants, Inc.**  
Concord, CA  
1995 – Present

District Manager  
**Corpro Companies**  
Hayward, CA  
1992 – 1995

President  
**Corrosion Engineering & Research Co.**  
Concord, CA  
1987 – 1992

Design/Project Engineer  
**Chicago Bridge & Iron Company**  
Oakbrook, IL & San Francisco, CA  
1977 – 1985