

Roger W. Staehle Consulting

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Roger W. Staehle, Ph.D.

For clients with environment-material-design systems concerned with corrosion and degradation, environmentally assisted cracking, performance prediction, failure analysis, forensic investigations:

- Analyze and predict corrosion-related performance.
- Design and manufacturing reviews to minimize corrosion.
- Define aggressive environments, identify modes of failure.
- Analyze causes and remedial actions for preventing future failures.
- Expert witness in litigation: prepare technical case, depositions, coordinate technical witnesses, testify.
- Teach—explain—lecture—write—edit.
- Organize and conduct research.
- Manage, coordinate and direct consulting groups.
- Advise industries and governments: domestic and international.
- Connect people and industries: domestic and foreign.
- Identify previously unknown problems.



Staehle has developed a unique six-screen computing station using one CPU, for immediate access to multiple applications.

Background

Consultant to Industries: Aerospace, appliances, architectural, automotive, bio-medical, bridges, buildings, chemicals, consumer goods, electronic, food, insurance, legal, manufacturing, nuclear and fossil power, paper, petroleum exploration and refining, pipelines, ships, sporting equipment, water distribution, water treatment

Phenomena: Stress corrosion cracking, corrosion fatigue, environmentally affected cracking, crevice corrosion, atmospheric corrosion, pitting, galvanic corrosion, intergranular corrosion, flow assisted corrosion, explosions, microbially induced corrosion.

Materials: Alloys of aluminum, boron, chromium, cobalt, copper, hafnium, iron, magnesium, molybdenum, nickel, niobium, platinum, silver, tantalum, titanium, tungsten, uranium, zinc, zirconium. Reinforced concrete, post tension concrete, brick panels, coatings.

Past academic: Professor at The Ohio State University, University of Minnesota; Dean of Institute of Technology (engineering and basic physical science), at Minnesota; organized and supervised large corrosion research programs; taught corrosion, material selection, failure analysis, materials science.

Non-academic: Consulting, nuclear power, transportation, information, boards of directors, start up companies.

Accomplishments: Editor of Corrosion Journal, Editor of Corrosion Science and Technology, 23 edited volumes on corrosion-fracture phenomena, organized and supervised world's largest corrosion group, 160 publications.

International consulting, lectures: Argentina, Australia, Belgium, Brazil, Canada, China, Denmark, France, Finland, Germany, India, Israel, Italy, Japan, Korea, Netherlands, New Zealand, Poland, Portugal, USSR, Union of South Africa, Sweden, UK.

