

# *Instructor Résumé*

## **James F. Jenkins**

Consultant and Lecturer in Metallurgy and Corrosion Control  
**Technology Training, Inc.**

Mr. Jenkins has over 40 years experience in the field of metallurgy and corrosion technology.

### **EXPERIENCE**

1995 – present **NICKEL DEVELOPMENT INSTITUTE, *consultant***

Mr. Jenkins' work for the Nickel Development Institute is in the applications of nickel containing materials in the marine environment and in concrete structures. He has also represented the Institute at technical meetings and has presented seminars on aqueous corrosion to industry representatives as well as responding to many technical inquiries received by the Institute.

1972 – present *Independent Consultant.*

Mr. Jenkins has worked as an independent consultant both during his employment with the Navy and since his retirement in 1995, for numerous organizations, on the subjects of metallurgy and corrosion control. A few examples: he investigated the failure of several large air-conditioning units at a major University. He investigated maritime cargo and container losses as a representative of the insurer of the cargo. He provided services in the design and materials selection for components of a tension leg offshore oil production platform and a high performance propulsion pump for large passenger hydrofoil vessels. Mr. Jenkins has served as an investigator and expert witness in many cases involving corrosion problems, in residential, municipal and industrial settings. He has advised clients on materials selection, cathodic control systems and other corrosion control issues, and presents seminars on these topics for the Navy and other organizations, including TTI.

1966 – 1995 **NAVAL FACILITIES ENGINEERING SERVICE CENTER, Port Hueneme, California (formerly Naval Civil Engineering Laboratory, NCEL).**

1966 – 1973 *Metallurgist, GS-7.*

1973 – 1977 *Metallurgist, GS-13*

1977 – 1980 *Head of Facilities Engineering Support Office*

1980 – 1995 *Metallurgist, GS-13*

MAJOR DUTIES: While at NCEL, Mr. Jenkins participated in research and development in the areas of metallurgy and corrosion technology and facilitated the application of metallurgical and corrosion technology to the Naval Shore Establishment through the development of criteria for the application of technology for design, construction, operation and maintenance of facilities and equipment as well as through direct field assistance activities.

Mr. Jenkins' research activities were primarily directed toward corrosion testing and the development of methods for the application of corrosion control technology, in a variety of marine environments. He also assisted in the development of electrochemical technology that resulted in the issuance of five U.S. Patents that are currently being utilized by the military in the production of Flameless Ration Heaters. Mr. Jenkins' technology application activities included the development of design and maintenance manuals for use by field personnel as well as standard specifications for materials and corrosion control. He also developed and presented technical training to field personnel in the areas of corrosion and corrosion control.

Mr. Jenkins provided direct field assistance services both for the Naval Shore Establishment and for other government or government related organizations. All types of facilities including buildings, utility systems, waterfront structures and submerged ocean engineering equipment benefited from the application of the services provided. Services for other organizations included a corrosion survey of the wreck of the U.S.S. Monitor, the development of design guidelines for Ocean Thermal Energy Conversion (OTEC) plants, and, on two occasions, assisting in the solution of corrosion and fracture problems on the Space Shuttle Main Engine.

### **EDUCATION**

B. S. Metallurgical Engineering, School of Mines, University of Arizona, Tucson, AZ, 1966



## **PUBLICATIONS**

Prepared a section on Metallic Materials for Marine Structures in "Materials for Marine Structures and Systems," Edited by D.F. Hasson & C.R. Crowe, published by Academic Press, 1988.

Prepared a section on control of Galvanic Corrosion for an ASTM Special Technical Publication "Galvanic Corrosion," Edited by H. Hack.

Prepared two sections for an ASTM Special Technical Publication "Corrosion Tests and Standards: Application and Interpretation", Edited by R. Baboian

In addition, Mr. Jenkins has published over 100 papers and technical reports on corrosion and corrosion control.

## **PROFESSIONAL SOCIETY ACTIVITIES**

NACE International (Formerly the National Association of Corrosion Engineers)

Mr. Jenkins is a fellow and an active member of NACE and has held numerous offices and chaired numerous committees since joining the association in 1972.

NACE Awards:

- Western Region Engineer of the Year – 1992
- National Technical Achievement – 1994
- National Distinguished Service – 1994
- Elected Fellow - 2000

British Institute of Corrosion

- Elected to Fellow status in 1994

American Society for Metals

- Member since 1965

The Society of Naval Architects and Marine Engineers

- Member since 1995

The Marine Technology Society

- Member and Chairman of the Marine Materials Committee since 1999

## **TEACHING EXPERIENCE**

Prepared and presented two training courses on Corrosion for Naval Surface Warfare Center, Port Hueneme.

Prepared and presented a one-half day tutorial on marine corrosion for the Marine Technology Society.

Developed one-week corrosion control training course for the U.S. Naval Facilities Engineering Command.  
Presented the course over 30 times at Naval Activities worldwide.

Developed one-week training course for NACE International on Designing for Corrosion Control.  
Presented the course over 15 times.

Revised a one-week course for the National Association of Corrosion Engineers on Corrosion Basics.  
Presented the course over 20 times.

Revised a one-week course for the National Association of Corrosion Engineers on Cathodic Protection.  
Presented the course seven times.

Prepared a course on preparation and use of audio-visual aids for effective presentations.  
Presented the course four times for two professional societies.

