



SADEGH PARVIZI *BSc, MSc, PhD, FIMMM, FICorr, CEng.*

Principal Corrosion, Materials & Metallurgical Engineer

Summary Key Skill

Principal corrosion, metallurgy and material technologist with over 36 years of experience in Oil, Gas and Power industries with a record in delivery of front line materials/corrosion prevention and design strategy advice to upstream and downstream oil and gas sector, leading and motivating by example. With strengths in technology management, structural, process plant and pipeline integrity management and employing the most updated Monitoring techniques, materials design and the vision to access and skills to explore, promote and open up new businesses and innovative technologies.

Since 1980 in addition to my R&D activities and Engineering tasks a number of training courses as briefly addressed here also were conducted.

Career History:

***Apr.2011-Present
Lead & Principal Materials
Technology Specialist***

CB&I , London, UK

Involved as a lead materials engineering specialist in a few LNG Projects i.e. Yamal (Russian), Browse (Woodside, Australia) and also Claire Ridge (BP) platform.

***Oct. 2006-2011
Principal Materials
Technology Engineer***

FOSTER-WHEELER ENERGY LTD. READING /UK

Involved in a number of projects such as Paradip Refinery FEED, EPC (as a member of MPMC specialist team), Manifa CPF, BP DF-1, Hydrogen Power of Abu-Dhabi, Conoco-Phillips, Houdini Shell Singapore, Nigerian Madu-Tubu oil gathering and Olokola Gas gathering, Singapore Parallel Train (SPT) EPC consultant to Exxonmobil.

The main activities included:

Preparation and review of a number of specifications
Auditing FEED documents

Reviewing and optimisation of Materials Selection and corrosion control philosophy.

***Mar'06-Oct.06
Materials Engineering Technology
Consultant***

BECHTEL Ltd., LONDON/UK

Involved as a Materials/Metallurgical Engineer Consultant in an EPC project for Jamnagar Refinery in India

***June 2000-March 2006
Section Head of Materials***

TECHNIP UAE/France

and Corrosion Engineering

Responsibilities include:

Responsible for the planning, reviewing and issuing project documents relevant to corrosion management, prequalification, materials selection for Engineering Procurement, Construction (EPC) project in oil/gas/petrochemical industries worldwide.

Engaged in:

- The review of equipment specification and data sheet to verify the selection of correct materials.
- The maintenance and updating of Integrity Management Manual to reflect modification and selection made during detailed design.
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- To audit that the required codes, standards are implemented.

April 1997-June 2000
Metallurgical & Materials
Engineering Consultant

Abu-Dhabi Marine Operating Company (ADMA-OPCO)

Responsibilities include:

Investigating and advising on various corrosion and metallurgical problem of the company which included:

- Selection of Materials
- Reviewing Material Submission
- Plant Failure Investigation
- Technical Advice on Repair Procedure
- Auditing
- Writing Materials Specification for sour and non-sour services.
- Involved in technical clarification activities with the Manufacturers on a number of projects.
- Engaged in Main Oil Line (MOL) corrosion protection strategy, manufacturing prequalification and Corrosion management activities.
- Engaged in the performance of a corrosion monitoring survey to select and specify the correct corrosion monitoring techniques and location for the offshore facilities including data capture and transmission. Incorporate findings in a report and drawings as appropriate.

1993-1997
Head of Applied R& D

National Petrochemical Companies of IRAN.

Responsibilities include:

Heading NIPC R&D activities and coordination of the key activities at NIPC involving some 13 companies/complexes) with over 15 million tons of petrochemical products. I was responsible for setting the overall strategy, aligning these to business drivers and ensuring effective progress and delivery in line with the

budget and deadlines. Key activities and achievements include:

- Preparation of extensive technical tenders, project management and budgetary responsibility on industrial safety & protection
- Development and implementation of strategic policy on corrosion and maintenance management in the Iranian oil industries.
- Materials selection and alloy development applicable to both upstream and downstream activities

1992-1993
Technical Consultant

FAN-NIROO Desalination Manufacturing Plant/ IRAN

Accountable for and involved in feasibility studies and conducting manufacturing processes for the tubing materials used in Multi-Effect Desalination Plants.

1989-1992
Principal Engineer

ERA Technology Ltd., Leatherhead, UK.

Responsible for developing the company's corrosion business and in particular the provision of corrosion engineering services to the Oil, Gas, Petrochemical, Power Generation, Building and Transport Industries. Involved visiting a large number of member companies, discussing their corrosion/metallurgical problems and providing technical advice in the field. Reports issued to clients in Refineries, Construction, Electronic and Electrical Industries.

1986-1989
Project Leader/Postdoctoral Research Fellow

British Gas Plc/University of Surrey.

Responsible for conducting experiments and some research and development activities, involved in a full range of training works, investigating the corrosion of materials in contact with sour/sweet gasses and application of corrosion monitoring techniques to control corrosion.

1984-1986
Corrosion Engineer

International Copper Association, UK

Successfully carried out case studies on the corrosion of some copper alloys in marine environment. The mechanism of the localised corrosion on these alloys was identified and preventive techniques such as, coating and other surface treatments were applied.

1980-1984

Experimental Officer

University of Surrey, UK.

In charge of the electrochemistry laboratories investigating the corrosion behaviour of materials in marine environments; successful development of combined electrochemical and surface analytical techniques. This work was conducted in liaison with branches of industries including the Central Electricity Generating Board (CEGB) at Fawley Power Station, Yorkshire Imperial Alloys, the UK Admiralty, British Gas, and the LaQue Corrosion Institute in North Carolina, USA. Twelve papers and reports were published

1976-1978

**Materials Testing
Laboratories, Lead Graduate**

Aryamehr (Now Sharif) University of Technology, Iran

Reorganised the experimental materials testing laboratory and updated the testing facilities.

Teaching and Training

Since 1986 examples of courses conducted:

Teaching PhD Students on Application of Electrochemical Techniques and its interaction with Surface Analyses Techniques.
Mentoring Master Degree Students on their corrosion and Electrochemical Testing

Training course for maintenance and inspection engineers on the application of organic coating for onshore and offshore structures

Teaching Petrochemical Utility Engineers on Water Treatment, corrosion inhibition and Corrosion Monitoring Techniques

Teaching ADMA-OPCO/Das Island UAE Inspection Engineers on Internal Corrosion of Pipeline by Wet CO₂/H₂S,

Conducting a course in Occidental petroleum of Qatar on Philosophy of Materials Selection for Oil and Gas Industries.

Conducting a course on Materials Selection and Corrosion Control Techniques for Different Engineering Disciplines of Technip Abu-Dhabi

Corrosion monitoring courses conducted yearly in the Corrosion Congress organised by The institute of Corrosion of Iran

Conducted a few courses on corrosion prevention techniques for Foster wheeler Chennai and Delhi offices

Presenting a course on the role of Corrosion Engineers for NACE Members of Aberdeen /Scotland Branch

As an approved NACE Instructor, conducting a number of Courses in London on Corrosion in Refining Industries for Bechtel, Foster wheeler and a number of operating companies.

Conducting course in Dubai for NACE on Basic Corrosion

Academic Qualifications:

University of Surrey, UK.

Ph.D. in Materials Science and Engineering (1985).

M.Sc. in Materials Technology (1980).

Aryamehr University of Technology, Iran.

B.Sc. (Hons) in Metallurgy Engineering (1977).

Professional Affiliations:

Fellow Member of the Institute of Materials, (UK) and
Chartered Engineer.

NACE Corrosion Specialist

Fellow Member of the UK **Institute of Corrosion**,
Member of **NACE** International & a Board member of
NACE UK Chapter,
NACE Refining Corrosion Instructor
NACE Basic Corrosion Instructor
NACE Design For Corrosion Instructor
I have published and presented at international
Conferences a large number of papers

Interests:

-Wide range of sporting activities, music and travel.
-Languages: Fluent in English, Turkish, Azerbaijani,
Persian, Basic Proficiency in Arabic & French.
-Certified First Aider

**Referees , Publication list
and Project list:**

*(The names and contact information for professional
references , Publication and Project lists can be provided
On request).*

Contact Information:

**1 Fortnam Close
Oxford OX3 7TH
Tel& Fax: 0044-1865-767930 Res.
Work: +44 2070533571
Mob.+44-7743565721
Home: +44 1865767930
Email: Work, sparvizi@cbi.com
Private: sadeghparvizi@yahoo.com**