Kuwait-Japan Joint International Conference

RISK MANAGEMENT
For Integrity of Oil Production And Refining Facilities

12-14 October, 2015
The Kuwait Hilton Resort, Al-Mangaf, Kuwait

Under the Patronage of

Nizar Al-Adsani
Deputy Chairman & CEO
Kuwait Petroleum Corp.
Corrosion represents a major economic and risk factor in the petroleum industry. Plant reliability is under pressure as a result of the rapidly decreasing quality of crude oil and increased throughput. In addition, critical equipment operating under severe conditions of pressures and temperatures undergo metallurgical degradation during long term service which affects the reliability of the plants. As the plants are getting older, the number of failures is increasing and the durations of forced shutdowns are becoming longer, resulting in considerable financial losses to the oil industry, affecting their economics in terms of lost production and cost of equipment replacement and repairs.

Methodologies to avoid equipment failures and forced shutdowns include, but not limited to, understanding of material's behavior in corrosive media, proper investigation of corrosion processes, assessing the structural integrity of equipment, application of life prediction models and standards, finding the best mitigation approaches and improving the skills of industry workers. Thus, corrosion and materials engineers are responsible for numerous risk management activities that aim at improving the reliability of the oil production facilities and refineries.

Why the conference is focused on Corrosion Risk Management?

Organizing Committee

1. Dr. Ronald Latanision  
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- Japan Society of Corrosion Engineering  
- KOC/KNPC/KGOC/PIC

Key Topics

i. Aged Plants  
ii. Designing & Materials Selection  
iii. Operation & Maintenance (O&P)  
iv. Risk management/Assessment for Technologies or for Human factors  
v. Safety & Reliability of Plants in Terms of “Corrosion” and “Degradation”  
vi. Refinery, Oil and Gas Facilities
**Technical Program Highlights**

**Presentations from USA and Canada:**

1. **Dr. Ali Mosleh (UCLA)**  
   Frontiers of Reliability and Risk Management Methods: An Assessment and Suggestions for Application in the Oil Industry

2. **Dr. Narasi Sridhar (DNV GL)**  
   Technical aspects of the risk management of corrodible systems, especially in refinery and oil & gas Facilities

3. **Dr. Jun’ichi Sakai (JSCE)**  
   Recent Damaging of Assets/Infrastructure and Its Cause/Key Analysis in Japan

4. **Dr. Peter Andresen (GE Global Research Center)**  
   Risk Management for Integrity of Oil Production and Refining Facilities

5. **Mr. Sandy Williamson (Ammonite Corrosion Engineering Inc.)**  
   Managing Risk in Oil and Gas Facilities Through a Properly Designed Asset Integrity Management Program.

**Presentations from Japan:**

1. **Dr. Keizo Hosoya (JGC Corporation)**  
   Mechanical Integrity Assessment of aged plants (MAA of KNPC)

2. **Dr. Masazumi Miyazawa (Mitsubishi Chemicals)**  
   Maintenance management of open cooling water system in a Kuwait refinery using EN technique

3. **Mr. Toshikazu Shibasaki (Chiyoda Corporation)**  
   Risk assessment of remaining life estimation for furnace tubes

4. **Dr. Matsuho Miyasaka (Ebara Corporation)**  
   Risk management by numerical analysis of seawater corrosion and cathodic protection

5. **Dr. Shu’ichi Hara (Corrosion Center, JSCE)**  
   Risk management for prevention of CUI

6. **Dr. Shuji Hashizume (Tenaris NKK Tibes)**  
   Risk management to avoid materials failures in sour service

**Presentations from Europe:**

1. **Prof. Soukas (VTT)**  
   Risk Management Based on Proper Material Selection, Advanced Monitoring and Remote Maintenance

2. **Dr. Bijan Kermani (Keyteck, UK)**  
   An Integrated Approach to Corrosion Management of Production Facilities

3. **Dr. Peter Sanders (DTI Oil & Gas)**  
   Assessing, Minimizing Risk and Reducing the Cost of Microbiologically Influenced Corrosion in Oilfield Systems Using Advanced Molecular Microbiological Tools
PRESENTATIONS FROM THE REGION:

1. **Mr. Abdullah Al-Ghamdi (Saudi Aramco)**  
   Corrosion Management of Aging Assets in Saudi Aramco

2. **Dr. C. Redrigeus (Petroleum Institute)**  
   Risk Management for Human Factors - The Human Cultural Element.

3. **Mr. Shailesh Javia (Matacor Inc.)**  
   Corrosion Prevention of Aged Structures by Application of Unique Cathodic Protection Solutions.

4. **Dr. Ali Moosawi (ADCO)**  
   Integrity Challenges for Onshore Pipelines

PRESENTATIONS FROM KUWAIT:

1. **Dr. H. Al-Mazeedi**  
   Reduction of the Risk of MIC for Carbon Steel in Sea Water Injection System on North Kuwait Oilfields.

2. **Dr. A. Hussain and S. Al-Bahar (KISR/EBRC)**  
   Degradation of concrete structures in Kuwait.

3. **Mr. Abdulrazzaq Al-Shamari and Mr. Amer Jarragh (KOC)**  
   Internal Corrosion Management Plan for Kuwait Oil Company Assets.

4. **Mr. Saleh Al-Sulaiman and Mr. Hasan Sabri (KOC)**  
   External Corrosion Direct Assessment of Kuwait Oil Company Crude pipelines.

5. **Mr. Musaed Al-Arada, Mr. Faisal Al-Refaie and Mr. Sandeep Patil (KNPC)**  
   Effective Corrosion management for Enhancing Mechanical Integrity.

6. **Mr. H.Al-Shammari, Mr. A/Rahman Al-Ghamdi, Mr.T. Kamshad and Mr. R. Siriki (KGOC)**  
   Biocide Injection to Eliminate the Risk of Bacterial Growth and Corrosion Failure in Non Internal Coated Pressure Safety Valve from an Eocene Sub Center at Partitioned Zone- A Case Study.

7. **Others**

- Conference Closing Remarks
- Conclusive Summary by Dr. Ronald Latanision

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