A large amount of the unforeseen incidents that occur in process plants are related to corrosion and erosion, and corrosion management is therefore essential to maintain the integrity of the facility.

As the requirements for improved productivity and cost effectiveness increase, combined with an increased attention to safety and environmental issues, activities related to corrosion management play an increasingly important role. Hence we are here to understand in detail about Corrosion Management in this 2 day workshop.

**Agenda:**

**Day-1**
- Corrosion Management Principles and Application
- Cost of Corrosion
- Impact of Corrosion
- Mechanism of Corrosion
- Control of Corrosion
- Monitoring of Corrosion
- Assessment of Corrosion
- Resources for Corrosion Management
- Developments and Challenges-Global and India

**Day-2**

- Overview of Sectorwise Corrosion Problems
- Water Distribution
- Infrastructure
- Power Generation-Thermal, Nuclear and Renewable
- Petroleum- Oil & Gas Production, Refining and Pipeline Networks
- Chemicals-Petrochemicals and Fertilizers
- Other Sectors - Food and Pharmaceutical
- Archeological Artifacts
- Present Position and Future Directions
CORROSION MANAGEMENT EXPERTS:

MANICKAM VALLIAPAN
Corrosion Management Consultant
Proven ability to analyze an organization's corrosion management requirements, resource planning, develop innovative and cost-effective solutions for corrosion analysis, increasing life of equipments, and improving asset integrity for safe and reliable operation.
24 years of Research and Industrial experience; India and Abroad;
Technical Publications: 25 in International and National Journals and Conferences. Award: NACE International India Section Award for Corrosion Awareness - 2003
Uniqueness:
- Developed an indigenous software solution for corrosion management in India.
- Running an Open Source Knowledge Management Network for interfacing the experience of Indian Diaspora and Overseas Experts with the talent pool in India to identify the resources required for corrosion control in India and develop innovation for corrosion management in India. This group establishes global level multi-dimensional communication pathways (Technology Providers-Technology Users-Academic and Research Institutions-Professional Associations-Legislation Support) and guides professionals from various disciplines and other technology groups to network with the best knowledge source for corrosion management. Our focus is on using the best resources for Predict-Design-Apply-Monitor-Control-Assess processes to find a suitable "Iron Pillar Way" of controlling corrosion in India and share our experience with the technology networking community. This group enhances the levels of research and training in the knowledge base that is relevant to integrity assurance processes by stimulating collaborative research and development projects and forging lasting partnerships.
- Conducting an Open Source Survey for Corrosion Management in India.
- Associating with Knowledge Management Efforts of Indian Diaspora for Science and Technology development in India.

Dr. T. K. Govindan Namboodhiri (T K G)
Dr. TKG holds a bachelor's degree in metallurgical engineering from Banaras Hindu University, and M. S. and Ph. D. degrees from the University of Pennsylvania, USA. A BHU Gold Medalist, he did post-doctoral research in corrosion at the University of Pennsylvania, at the National Institute of Standards & Technology, Gaithersburg, Maryland, and at the Electrochemical Research Institute, Karaikudi. Dr Namboodhiri established a modern Corrosion Research Laboratory, and conducted research under various sponsored research
He is an expert in the field of Hydrogen Damage of materials. He has over 40 years of teaching and research experience in mechanical behavior of materials, Corrosion and prevention, environment-assisted fracture, and hydrogen damage. He has over 80 research publications to his credit, and has presented over 40 papers in Technical conferences. Many of his papers have been selected for 'The Best Paper' awards.

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