

SYMPOSIUM

Towards Net Zero

Impact of Corrosion on Asset Integrity

7-8 Oct 2024 @ IIT Bombay

(9th October - Visit to Corrosion Lab at IIT Bombay & interaction with Experts for interested participants)



Organised by
Dept. of Metallurgical Engineering & Materials Science
CoE in Oil, Gas and Energy
DIA-CoE (DRDO)
IIT BOMBAY
&
India Energy Network

PREAMBLE

CORROSION is known to cause severe damage to assets, cause accidents, reduce life, increase costs of operation, reduce productivity, and profitability.

Corrosion is a very complex and highly interdisciplinary phenomena involving materials, electro-chemistry, thermo-mechanics, reaction kinetics, design, manufacturing, surface engineering, geo-environmental conditions etc. Due to advancements in corrosion science and engineering, several techniques are now available to **predict the rate of corrosion** and **mitigate the effect of corrosion**.

In the Indian context, the losses due to corrosion in energy sector alone are estimated to be in the range of 3-5% of GDP. There is a significant need and scope for R&D, innovation, and development of technologies for corrosion mitigation.

It will be a national priority to:

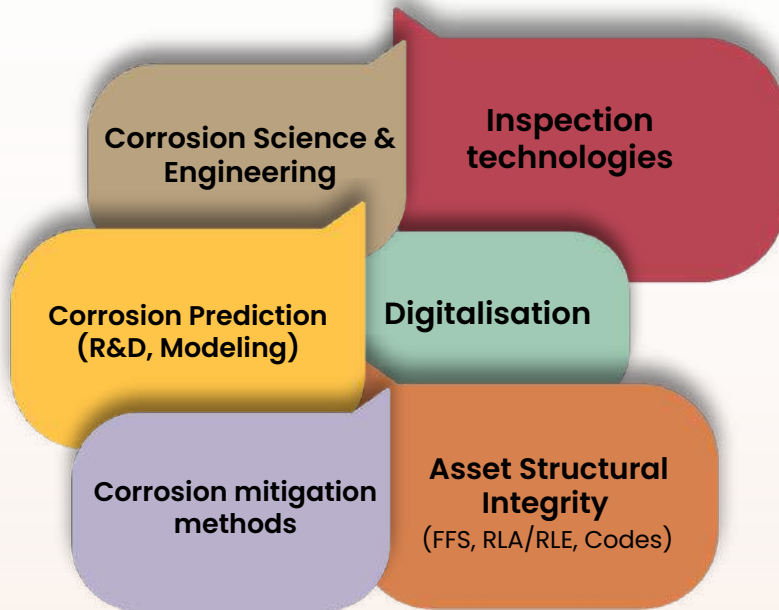
- Train & sensitize people in various aspects of corrosion & corrosion mitigation.
- Provide platform for exchange of ideas, sharing experiences & learning from industry peers.
- Encourage collaborative R&D projects between industries, innovators, startups and academics in problem solving modes.

Objective of Symposium

- Knowledge Sharing on latest trends in corrosion related R&D, corrosion mitigation technologies by experts.
- Experience sharing by industrial peers from different sectors of industry about:
 - **corrosion related problems** faced
 - solution **methods and approaches developed and implemented**
- Bring together all stakeholders involved in corrosion:
 - Asset owners, operators
 - Researchers, academics, R&D organisations
 - Innovators, startups
 - Providers of corrosion solutions (protective coatings, paints, cathodic protection, Inhibitor development, etc)
- Explore opportunities for collaboration between industries, academia, and researchers, in technology development, R&D, and solution oriented consultancy services etc.
- Identify gaps in science based understanding of multi-disciplinary areas of corrosion.

THEMES of Symposium

Symposium will be centered around all aspects of corrosion in multiple industrial sectors. Core idea is to exchange ideas about corrosion problems and mitigative measures & learn from experiences of different sectors. Discussions in the Symposium are centered on following themes.



Industries covered:

- **Defence** (Naval, Land based, airborne)
- **Oil & Gas** (Upstream, Refineries, Pipeline)
- **Power Plants** (Thermal, Nuclear, Renewables)
- **Petrochemicals**
- **Off-shore, Marine**
- **Chemicals & Processing Industry**
- **Fertilisers & Cement Plants**
- **Heavy Engineering Industrial Equipment**

Who are participants?

- **Inspection professionals** involved in detection & prevention of corrosion.
- **Integrity assessment professionals** involved in FFS, RLA/RLE, risk analysis, failure analysis, RBI.
- **Corrosion prevention / Mitigation professionals** involved in development & application of anti-corrosive coatings, paints, corrosion inhibitors, cathodic protection, materials modification, etc.
- **Corrosion prediction professionals** involved in corrosion R&D, testing & experimentation, development of physics-based & data based models (AI/ML etc.)
- **Material Scientists / Chemists / Electro-Chemical technologists.**

Format of Symposium

- **Keynote lectures & invited lectures** from experts in the areas related to corrosion science & engineering corrosion management and asset integrity.
- **Presentation on corrosion problems** faced by different industries.
- **Solution to corrosion problems** developed and implemented by industries.
- **Panel Discussion & open house sessions** to exchange solution approaches.

Present your Corrosion related experience at the symposium:

- Your R&D work in corrosion science & engineering, prediction & prevention.
- Corrosion problem statements-showcasing the corrosion related challenges you are facing.
- Industrial case studies detailing your organisational approach to solve corrosion problems.

For more details visit https://indiaenergynetwork.in/corrosion_symposium.php

Email your interest to: corrosion@indiaenergynetwork.in

REGISTRATION DETAILS

(Registration fee covers workshop participation, delegate kit, lunch & coffee)

	EARLY BIRD Before 13th Sep 2024	REGULAR After 14th Sep 2024
Standard	Rs 18,000/-	Rs 22,000/-
Academic	Rs 7,500/-	Rs 9,000/-
Students	Rs 3,500/-	Rs 6,000/-

GST @ 18% extra to be added for all categories

Registration fee to be paid by bank transfer DD / NEFT/ RTGS to "India Energy Network - Science & Engineering Foundation of India" A/c Number 41460965924, IFSC Code- SBIN0018239, State Bank of India; Peenya Industrial Area Branch, Bengaluru- 560058.

SPONSORSHIP OPTIONS & BENEFITS

Details	Platinum	Gold	Silver	Exhibitor
Regular (Payment before 13th Sep 2024)	Rs 400,000/-	Rs 300,000/-	Rs 200,000/-	Rs 100,000/-
After 14th Sep 2024 (Late fee of 25%)	Late fee of 25%			
BENEFITS of SPONSORSHIP ↓				
Table top Display + Poster	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Display of Logo in Seminar hall, lunch area	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Display of Logo in Website & Report	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Panelist / Speaking Opportunity	<input checked="" type="checkbox"/>			
Complementary Delegates	8	6	3	2

GST @ 18% extra to be added.

Organising Committee

Mr. Babu Sathian, MD, Cathodic Protection Pvt.Ltd

Dr. R Nagaraja, MD, PRDC Infotech, India Energy Network

Prof. S Gopalakrishnan, IISc

Mr. J Suresh Kumar, GM, MRPL

Prof. G Jagadeesh, IISc

Mr. A Umesh Chandra, India Energy Network

Dr. U Kamachi Mudali, VC HBNI, DAE

Dr. V Venkateswara Rao, DIA-CoE(DRDO), IIT Bombay

Prof. B Krishnan, IIT Madras; President, ISNT

Prof.Yogendra Shastri, CoE Oil, Gas & Energy, IIT Bombay

Convenors

Prof S Parida, IIT Bombay

Prof V S Raja, IIT Bombay

Dr S Shamasundar, MD ProSIM R&D Pvt Ltd, India Energy Network

For details contact:

Email your interest to: corrosion@indiaenergynetwork.in

Tel: 080-6816-0000

Cell: 9900068074 / 9972304447