

TRIBO-CORROSION – V

**Wear and Corrosion: Synergistic Effects and Road Mapping
Solutions for Mitigation in Industrial & Service Environment**

December 12th - 13th, 2016



Venue

**Nonferrous Materials Technology Development Centre
P.O.Kanchanbagh, Hyderabad – 500 058, INDIA**

Theme

Tribo-corrosion is a crucial materials degradation issue in industrial process as well as in service environment. It is major cause for significant loss of energy, efficiency and overall life of components and devices in a range of sectors., viz. oil and gas, chemical and metallurgical processes, medical and dental and renewable energy domains as in wind, tidal and wave based systems.

This Fifth edition in the International Conference series will address the advances in the field and chart out road maps for mitigating the synergistic effects of tribo corrosion in industrial and service environments.

- Modelling and Simulation of Synergistic Effects
- Ambient Temperature Wear + Corrosion
- High Temperature Wear + Corrosion
- Bio-Tribo Corrosion
- Degradation in Vacuum and Cryogenic Environments & Solutions

Papers on the above aspects are being solicited. Selected papers will be published in Tribology International and Journal of Bio and Tribo Corrosion. A poster session is also being envisaged covering the above said topics.

Core Technical Members

Chairperson

Professor Margaret M. Stack
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* Awaiting acceptance

Important Deadlines

Abstract Submission	: 15 August 2016
Poster Submission	: 30 September 2016
Confirmation of Presentation	: 31 October 2016

Contact

For further information, please contact:

e-mail: organiser@tribocorrosion-v-2016.com

For latest updates, please visit the Conference Website:

<http://www.tribocorrosion-v-2016.com>

Registration

- Indian delegates : INR 12000
- Foreign delegates : EURO 300
- Foreign Student Delegates : EURO 200
- Students : INR 5000

Registration Form:

Form can be downloaded from the website <http://www.tribocorrosion-v-2016.com/>. The filled registration form can be sent as an attachment to the following email address: organiser@tribocorrosion-v-2016.com

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Venue

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TRIBOCORROSION - V

Sl. No	Time-slot	Speaker	Event/Activity
			DAY 1 - Dec 12, 2016
	0900 - 0915		Welcome & Introductory Remarks
	CHAIRPERSON: CAROLINE RICHARD		PLENARY SESSION
1	0915 - 1000	R J K Wood	Marine tribocorrosion
2	1000 - 1045	Satish V Kailas	Wear – A Synergy between Plastic Deformation Mechanisms, Tribo-oxidation and Mechanical Mixed Layers
	1045 - 1115		Tea
	CHAIRPERSON: K BALASUBRAMANIAN		SESSION II - THEME: TRIBOCORROSION IN BIO- MEDIA - I
3	1115 - 1200	M R Ripoll	KEYNOTE Tribocorrosion behaviour of Ti6Al4V at small contact loads
4	1200 - 1245	Raman Singh	KEYNOTE Corrosion and Assisted Cracking of Magnesium Alloys for Bioimplant Applications
5	1245 - 1330	Sandra Carvalho	KEYNOTE Biotribological behavior of Ag-ZrC _x N _{1-x} coatings against UHMWPE for joint prostheses devices
	1330 - 1415		Lunch
	CHAIRPERSON : S CARVALHO		SESSION III - HIGH TEMPERATURE TRIBOCORROSION
6	1415 - 1500	A Cavaleiro	KEYNOTE Low friction at high temperature: the importance of chemical reaction in the sliding contact
7	1500 - 1520	Sourav Sarkar	Elevated Temperature Reciprocating Wear of Carbon Carbon Composite
8	1520 - 1540	Venkatesh .B	High Temperature Erosion of Hardfaced Stellite Layer
9	1540 - 1600	Manish Roy	Designing Elevated Temperature Erosion Resistant Ni-base Superalloys
	1600 - 1630		Tea
	CHAIRPERSON : M R RIPOLL		SESSION IV - TRIBOCORROSION IN BIO- MEDIA - II
10	1630 - 1650	Geetha M	Tribocorrosion and Electrochemical behaviour of Nanocrystalline Diamond coated Ti based alloys for Orthopaedic Application
11	1650 - 1710	Shashibhushan Arya	Tribocorrosion Study of Nickel Free High Nitrogen High Manganese stainless Steels in Ringer Solution
12	1710 - 1730	Nitin More	Influence of synovial constituents on fretting corrosion behaviour of Ti-12.5Mo β titanium alloy in physiological solution
	1830 - 1930		DINNER

TRIBOCORROSION - V

Sl. No	Time-slot	Speaker	Event/Activity
DAY 2 - Dec 13, 2016			
CHAIRPERSON : A CAVALEIRO			SESSION V - TRIBOCORROSION IN AQUEOUS MEDIA
13	0900 - 0945	R Caroline	KEYNOTE Tribocorrosion behavior of new martensitic stainless steels in sodium chloride solution
14	0945 - 1005	J Aguirre	Effect of dissolved copper ions on erosion–corrosion synergy of X-65 steel in simulated copper tailing slurry
15	1005 - 1025	Nilima Khare	Tribo-Corrosion Studies of Nitride Layer under Water Lubricated Environment
	1025 - 1100		Tea
CHAIRPERSON : R J K WOOD			SESSION VI - MATERIALS, PROCESSES & CHARACTERISATION - I
16	1100-1145	Ille C Gebeshuber	KEYNOTE Inspiration from living Nature for corrosion prevention - Examples, basic principles, and transfer to tribology
17	1145 - 1230	M R Ripoll	KEYNOTE On the synergy between mechanical wear and CO2 corrosion of low-alloy carbon steel tubings
18	1230 - 1315	J Bernardi	KEYNOTE Electron Microscopy for the Investigation of Tribologically Altered Surfaces
	1315 - 1400		Lunch
CHAIRPERSON : RAMAN SINGH			SESSION VII - MATERIALS, PROCESSES & CHARACTERISATION - II
19	1400 - 1420	Nitesh Vashishtha	Effect of heat treatment on the microstructure and abrasive wear behaviour of HVOF sprayed cermet coatings
20	1420 - 1440	A B Rathod	The Effect of Microstructure on Slurry Abrasion of Hardfaced High Chromium Irons
21	1440 - 1500	R K Sharma	On the Study of Tribological Evaluation of Curcumin as a high-performance Multifunctional Additive for Polyol Lubricating Oil.
22	1500 - 1520	Rohit Kumar	Effect of binder (Ni, Nb) on mechanical and tribological properties of Al ₂ O ₃ -TiC composite synthesized by spark plasma sintering process
23	1520 - 1540	Soha Mohajeri	Boiler Tube Failure Due to Flow Accelerated Corrosion in Kazeroon Power plant
	1540 - 1600		Tea