

# 6<sup>th</sup> International Conference on Tribo-corrosion (ICTC-2024) 10-11 December 2024



## Organized By

Department of Mechanical Engineering,  
Indian Institute of Technology Delhi  
Hauz khas, New Delhi-110016, India

## Venue

Indian Institute of Technology Delhi

## Powered By

Bureau of Indian Standards



## Website

<https://tribocorrosion.iitd.ac.in>

## About the Conference

Tribo-corrosion poses a significant material challenge across various environments, often resulting in notable declines in energy efficiency. Its impact extends beyond traditional sectors like oil, gas, and nuclear industries, encompassing emerging fields such as biomedical, dental, tidal, wind, and wave energy. Recognized as a critical factor in industrial operations, effective Tribo-corrosion management is essential. Implementing proper practices not only safeguards plants and machinery, but also boosts operational efficiency, curtails energy usage, and averts costly breakdowns.

Moreover, the objective of the conference is to convene prominent industrialists, engineers, academics, scientists, researchers, and research students, fostering the exchange of experiences and research findings across a wide range of topics pertaining to Tribo-corrosion. This gathering serves as a platform for participants to showcase and deliberate on the latest innovations, trends, practical hurdles faced, and solutions implemented in Tribo-corrosion, addressing the demands of an ever-expanding technological landscape.

The unique aspect of the 6th ICTC 2024 is its focus on Tribo-corrosion for Sustainability & Reliability, incorporating innovative methodologies. These approaches are vital for the holistic betterment of human livelihoods and the advancement of economies..

## History of Conference

The conceptual idea of bringing together experts in Tribo-corrosion was conceived as early as 2001. However, it could be “nucleated” in the present form only in December 2006 at NFTDC, Hyderabad, India. Translating the first ever such symposium into a serial edition of conferences became possible thanks to subsequent initiatives of many in the Tribo-corrosion community under the stewardship of Andreas Pauschitz (2<sup>nd</sup> Conference, Wiener Neustadt Austria in 2009), Peter Blau (3<sup>rd</sup> Conference, Atlanta, USA, in 2012) and Margaret Stack (4<sup>th</sup> Conference, Glasgow, UK in 2014). The 5<sup>th</sup> edition was hosted by NFTDC, Hyderabad under the chairmanship of K. Balasubramanian and Margaret Stack.

## Objectives

- ❖ Discusses the current practices and challenges in Tribo-corrosion area.
- ❖ Explores Tribo-corrosion Practices as a tool for improved efficiency and enhanced life of the machine components.
- ❖ Discusses the emerging technologies such as Nano & Bio-Compatible coatings
- ❖ Showcases the advancements in lubrication, bearings and wear resistant materials.
- ❖ Provides an opportunity to manufacturers to display their state of art tribo-equipment's & Products and services.
- ❖ Discusses the influence of sustainability in Tribo-corrosion.
- ❖ Explores the impact of Tribo-corrosion in our daily life and economic growth of country.

## Call for Papers

We invite original (unpublished) research contributions based on the mentioned tracks for presentation from academia/industry and R&D establishments, Research Students and Consultants. All papers should be submitted in the prescribed format.

- ❖ **High Temperature Tribo-corrosion**
- ❖ **Lubricants and tribo-corrosion interactions**
- ❖ **Industrial Tribo-corrosion and Detection Methods**
- ❖ **Models and mechanistic maps of Tribo-corrosion**
- ❖ **Tribology in Bio-Medical Applications**
- ❖ **Case studies**
- ❖ **Corrosion Protection for Electric Vehicles**
- ❖ **Many more related to the theme**

## Important Dates

Submission of Abstract: 31<sup>st</sup> July 2024

Acceptance Notification: 20<sup>th</sup> August 2024

Registration Start: 01<sup>st</sup> September 2024

Registration End: 30<sup>th</sup> November 2024

## Abstract Format

Times New Roman, Title 16 pt. (Bold, Centre), Author name 12 pt. and their affiliation 11 pt., Headings 12 pt. (Bold), At least 5 keywords, 200-400 words.

## Email ID for correspondence

[tribocorrosion@iitd.ac.in](mailto:tribocorrosion@iitd.ac.in)

## Registration

**\*AT least one author of each paper must register**

Category	India	Overseas
Student	Rs. 8000	US \$150
Academic	Rs. 12000	US \$200
Industry	Rs. 15000	US \$250

## Sponsorship Opportunity:

We welcome esteemed companies and organizations to sponsor the 6<sup>th</sup> International Conference on Tribo-corrosion, hosted at the Indian Institute of Technology Delhi, India.

Category	India	Overseas
Silver	Rs. 100000	US \$1500
Gold	Rs. 150000	US \$2000
Platinum	Rs. 200000	US \$2500
Diamond	Rs. 3 0 0000	US \$4000
Powered	Rs. 5 00000	US \$6000



## Publications: Special Issue



SCIE, IF-6.2



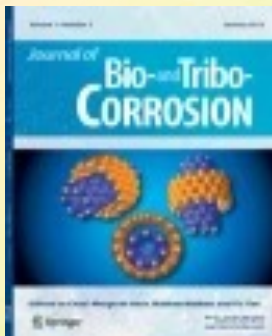
SCIE, IF-2.0



SCIE, IF-1.7



ESCI, IF-1.3



Scopus, Cite Score-6.0

Special issues of the journals will be published featuring selected papers from the conference. A review process will be adopted for accepting papers. Quality checks will be conducted on the accepted papers, and only those that pass these checks will be published.



Conference proceedings, Scopus: Chosen papers from the conference will be compiled into a proceedings book volume by Springer. Prior to publication, Springer will review the accepted papers for quality, with only those meeting their standards being published. It's important to note that Springer Nature does not require payment for the publication of Non-Open Access content. Additionally, papers shorter than 4 pages will not be considered for publication.

### Speakers

**Prof. Albano Cavaleiro**, University of Coimbra, Portugal  
**Prof. Dae-Eun Kim**, Yonsei University, Seoul, Korea  
**Prof. Ille C. Gebeshuber**, TU Wien, Vienna, Austria  
**Prof. Henara Costa**, Escola de Engenharia – FURG, Brazil  
**Prof. Margaret Stack**, University of Strathclyde, UK  
**Prof. Mathew Mathew**, University of Illinois, Chicago, USA  
**Prof. Nazanin Emami**, Luleå University of Technology, Sweden  
**Prof. Satish V. Kailash**, Indian Institute of Science, India  
**Prof. Sandra Carvalho**, University of Coimbra, Portugal  
**Prof. Stefano Mischler**, EPFL, Switzerland  
**Prof. Tomoko Hirayama**, Kyoto University, Japan  
**Prof. Yoshinori Sawae**, Kyushu University, Japan

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**Prof. Tomoko Hirayama**, Kyoto University, Japan

**Prof. Yoshinori Sawae**, Kyushu University, Japan

## Contact Details

**Prof. Harish Hirani**

Chairperson

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