

1st Symposium on

Bio-Tribology & Related Medical Devices

3 – 4 June 2024

Organised by

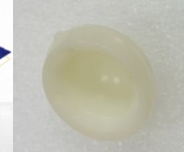
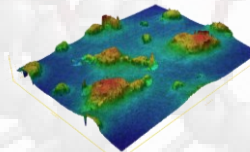
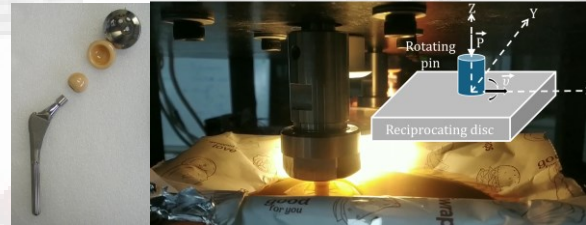
Indian Institute of Technology Delhi

In association with



www.Indiabiotribology.com

This symposium aims at bringing together researchers from academia and industrial R&D, as well as industrial manufacturers/service providers, working in the broad field of bio-tribology. It involves bio-tribology related to hip and knee joints, skin, hair, spines, shoulder, orthopaedic implants, materials, devices, etc. Both academic researchers and industry professionals would find this symposium an excellent forum to present their works, exhibit products and services or network with people with similar interests.



Venue: IIT Delhi, New Delhi

Thrust Areas

- Bio-tribology of hip/knee implants
- Fretting and related wear of femoral stem
- Bio-tribo-corrosion
- Wear testers for bio-tribology
- Hip/knee wear simulators
- Implant materials
- Coatings for bio-tribology
- Skin, oral and eyelid bio-tribology
- Shoulder/wrist/ankle implant bio-tribology.
- Lubrication studies of articular cartilage and Vascular bio-tribology
- Bio-inspired surfaces for bio-tribology
- Cartilage substitute materials
- Surface texturing for skin interactions
- Materials (including 3D printed) used in bio-tribology
- Dental Tribology
- Application of AI in Bio-tribology
- Effect of nutrients, physical and electrical stimuli on Bio-tribology of human body
- Computational bio-tribology

Organizing committee

Chair: Prof. Sujeet K Sinha, IIT Delhi

Co-Chair: Prof. R. Gnanamoorthy, IIT Madras

Secretary: Dr. Jaswant K Hirwani, IIT Delhi

Program coordinator: Dr. Sandip K Nayak, IIT Delhi

Session coordinator: Dr. Abhinava Chatterjee, IIT Delhi

Technical advisory committee

- Professor Arakere Puttaswamy Harsha, IIT BHU
- Professor Kanagaraj Subramani, IIT Guwahati
- Professor Geetha Manivasagam, CBCMT, VIT, Vellore
- Professor Dinesh Kalyanasundaram, IIT Delhi
- Professor Arnab Chanda, IIT Delhi
- Professor Devendra Kr. Dubey, IIT Delhi
- Dr. Dhanasekara Raja, Orthopaedic surgeon at Ganga Hospital Tamil Nadu, India

Registration deadline:

1st May 2024

Students & postdoctoral fellows

₹ 3000

Academic faculty, medical professionals and government R&D

₹ 6000

Industry

₹ 9000

Foreign Participant

USD 150

For more details:

Contact email:

biotribology24@gmail.com

Website

www.Indiabiotribology.com

Expert speakers



Devendra Kr. Dubey
Associate Professor
Indian Institute of Technology Delhi



R. Gnanamoorthy
Professor
Indian Institute of Technology Madras



A. P. Harsha
Professor
Indian Institute of Technology (BHU)



M. Kamaraj
Professor
Indian Institute of Technology Madras



Geetha Manivasagam
Professor and Founding Director of CBCMT,
VIT Vellore

Abstract submission (only oral):

- Deadline – Extended up to 25th April 2024
- Abstract template – <https://tinyurl.com/fvxck5mu>
- Abstract submission link - <https://forms.gle/pKytUt2gAWSiaq9LA>
- Publication of a refereed proceeding is planned if enough number of papers will be submitted.
- Submitted and reviewed papers from this symposium will be published as chapters in **Springer's Lecture Notes in Mechanical Engineering (indexed in SCOPUS, SCImago, INSPEC and others)**. Those wishing to publish must submit the full manuscript by **1 June 2024**.

Awards

Best oral paper and runner up award certificates will be provided by Springer. This will also include a **voucher worth of Euro 100** to the winners for purchase of any publication from **Springer**. Authors wishing to be considered for these awards must submit full paper manuscript for review for the book chapter in Springer's Lecture Series on Mechanical Engineering by **1 June 2024**.

For sponsorship:

Contact- jaswant.hirwani@gmail.com

Accommodation (Recommended hotels and other options):

1. Hotel Shyama International, SDA market, Near IITD, Hauz Khas, 110016
2. Udman Panchshila by Ferns N Petals, Panchsheel Park, New Delhi, Delhi 110017
3. Hostel accommodation at IIT Delhi could be provided, at the prevailing rate, based on first-come-first-serve basis (limited seats). Please note : Lodging and boarding charges are separate from the registration fee.

Symposium Venue: Department of Mechanical Engineering, IIT Delhi, Hauz Khas, New Delhi, 110016

