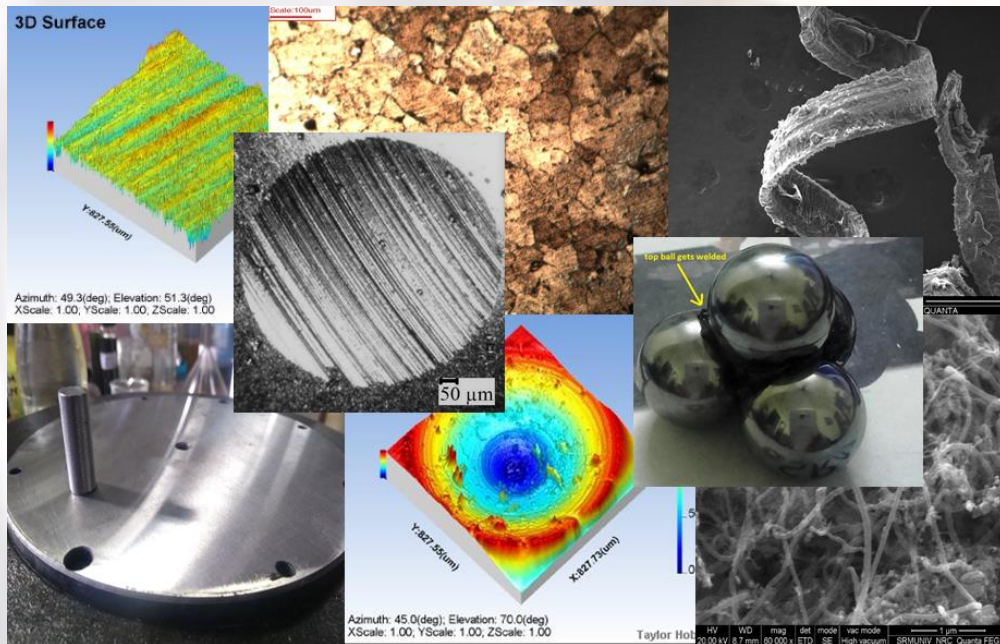


# TRIBOINDIA 2020

An International Virtual Tribology Conference



**10<sup>th</sup> -12<sup>th</sup> December 2020**

**Organized by :**

**Department of Mechanical Engineering  
SRM Institute of Science and Technology  
Kattankulathur Tamil Nadu 603203**

**Under the Aegis of Tribology Society of India**

# TRIBOINDIA 2020

Tribology is a multi-disciplinary subject dealing with the study of interacting surfaces in relative motion. The term, derived from the Greek word "Tribos" (meaning "Rubbing"), in general denotes the subject of Friction, Lubrication & Wear technology. Over the years, the subject of Tribology came to be recognized as a very important aspect in all industrial operations. The application of correct Tribological practices can protect and enhance the life of plants and machinery, improve efficiency of operations, reduce energy consumption and prevent expensive breakdowns.

To provide a common umbrella to work further in this area, Tribology Society of India (TSI) has been set up as a professional, not-for-profit body bringing together academicians, and industry as well as research organizations as its members. The Society is affiliated to the International Tribology Council (ITC) based in London, UK. The activities related to Tribology in the country started way back in 1972, when first World Conference on Industrial Tribology (WCIT) was organized by Indian Institute of Technology at New Delhi. Continuing with this, a series of National and International Conferences have been organized during last 48 years including successful recent events **ASIATRIB 2014**, **TRIBOINDIA 2018** at VJTI Mumbai (4th in the series of National Tribology Conferences) and **IndiaTrib 2019** (the 10th International Conference on Industrial Tribology at IISc, Bangalore). TSI also organizes its annual event of Summer Schools in Tribology, the recent one being the **12th Summer School in Tribology**, in webinar mode having been organised successfully during July 2020)

Currently the Society operates from its registered office at Indian Oil R&D Centre, Faridabad. Tribology society of India invites academic institutions to organize a conference once in every 2 years with the sole objective of providing a platform to academicians, researchers and practicing engineers to discuss the current trends in tribology practices.

**TRIBOINDIA-2020 is the fifth in the series of National Tribology Conferences (NTC)**, (however the first ever through online mode), The first edition of NTC was organized by IIT Roorkee in 2011, the second one at PES University at Bengaluru in the year 2014 and third one at IIT BHU during 2016. In 2018 the NTC was renamed as **TRIBOINDIA 2018** and was organized at VJTI Mumbai. This year **SRM Institute of Science and Technology, Kattankulathur** Campus will be organizing the **TRIBOINDIA-2020 via online mode**.

## About SRM Institute of Science and Technology

SRM Institute of Science and Technology (formerly known as 'SRM University') is located in an extensive sylvan campus of 380 acres skirting the National Highways (NH145), in the outskirts of Chennai. SRMIST is one of the top ranking Universities and most premier engineering destinations in India, which is established in 1985 by the Founder Chancellor, Dr. T.R. Paarivendhar. Now it is functioning in campuses located at Kattankulathur, Ramapuram Part (Vadapalani) and Ramapuram in Chennai and one in Modi Nagar, Ghaziabad with over 52000 students and 3200 faculty members, offering wide range of undergraduate, postgraduate and doctoral programs in Engineering, Management, Medicine & Health Sciences, Agriculture, Law and Science & Humanities. The Institution has moved up through international alliances and collaborative initiatives to achieve global excellence. SRMIST also collaborates with various foreign Universities. Now the Institute enjoys an unsurpassed reputation in academic and corporate circles being the preferred manpower source for vision to be recognized as a world - class learning institution. SRMIST has been accorded Category I status by MHRD-UGC of

Government of India and also accredited by NAAC with 'A++' Grade in the year 2018. About Department of Mechanical Engineering, SRM IST.

The Department of Mechanical Engineering is one of the pioneering departments of SRMIST. The department is functionally divided into four broad areas of specialization: (i) Design (ii) Manufacturing (iii) Thermal and (iv) Materials Engineering. B.Tech Mechanical Engineering program at Kattankulathur campus is accredited by Engineering Accreditation Commission (EAC) of ABET, USA, ([www.abet.org](http://www.abet.org)). The department also offers M.Tech. and Doctoral programs in various specializations. The present faculty strength is 135. About 800 + research papers and 850 + conference papers have been published in national and international levels. More than 30 patents have been filed in national and international levels.

The following salient workshops and conferences was conducted by the Department of Mechanical Engineering, Ktr: International Conference on Advances in Mechanical Engineering 2006, Short Course on Mechanics of Composite Materials and Structures: 2015, Workshop on Development, Manufacturing and Analysis of Advanced Composites, 2015 and short course on FEM, 2015, National Conference on Advances in Mechanical Engineering (NCAME 2016), Brain Wave Robotics, 2017, International Conference on Advances in Mechanical Engineering (ICAME 2018) and 2<sup>nd</sup> international Conference on Advances in Mechanical Engineering ICAME 2020 (26<sup>th</sup> February to 29<sup>th</sup> February 2020).

## About Tribology Laboratory at SRM IST

The Department of Mechanical Engineering has a dedicated team of faculties who work in the area of tribology in a well-equipped laboratory. This fully functional research laboratory is handling funded projects from several industries and government agencies. Students of this laboratory are sent to reputed institutes for internship in the area of tribology. The laboratory initiated two MoUs with foreign universities and the outcome was seen in joint publications and internship for students. The laboratory also works closely with premier institutes in India in the area of tribology. The laboratory news was published in the Newsletter of Tribology Society of India.

## Business Presentation

Manufacturers/suppliers of equipment, lubricants, additives and service provider related to Tribology would be invited to Conference to project their products /services/innovations through multimedia presentation in the special sessions in Manufacturer's Presentation. A nominal fee of Rs. 10,000/- would be charged for each presentation of 20 minutes duration for business presentation. One slot free of charge will be provided to all diamond sponsors.

## Sponsorship details

Category	Indian	Foreign
Diamond*	Rs. 50,000	USD 625
Platinum**	Rs. 25,000	USD 315

\*Title sponsors

\*\*Logos will be available on the web page.

## Registration fees

Category	Registration Fees
Students Delegate	INR 500*
Academic delegates	INR 1500*
Industry delegate	INR 2000*
Foreign delegates	USD 100*
Foreign delegates – Students	USD 50*

\*All the above prices are exclusive of taxes. A GST of 18% will be applied to the above prices. At least one author needs to be registered for presentation. Registered and presenting authors will be provided e-certificates. For further details, please keep visiting the website of TSI.

For online registration please use the link given at the TRIBOINDIA 2020 icon at TSI Website <https://www.tribologyindia.org/>

## Payment Details

All payments related to registration of delegates, sponsorship, advertisements, technical exhibition and , manufacturer’s presentation etc. can be made through crossed demand draft drawn in favor of “Tribology Society of India” payable at State Bank of India, IOC Complex Branch Faridabad, OR By NEFT Bank Transfer to the following bank account:

Name of the Bank: State Bank of India

Beneficiary: ‘Tribology Society of India’

Beneficiary A/c No. 31710524711

Branch Name: IOC Complex Faridabad

Bank Address: Indian Oil Corporation Sector 13, Faridabad

IFSC Code: SBIN0010449 SWIFT: SBININBB383

MICR Code: 110002466

## Call for papers:

Papers are invited from Scientists, Academicians and Practicing Engineers in Tribology for technical sessions in the following areas (but not limited to following). Authors are also encouraged to submit their original articles to the indexed journals (will be notified later). Keep an eye on TSI website.

**Wear:** Surface treatment & coatings, Wear resistant materials, Nano & BioTribology, Bio-mimetics, Wear Modelling, Reliability, Machine Design, Mathematical modelling.

**Friction:** Contact Mechanics, Coefficient of friction

**Green tribology**

**Advanced condition monitoring**

**Lubrication:** Thin film lubrication Lubricants & additives

**Friction Materials**

**Industrial Tribology:** Tribological aspects in design & manufacturing, Industrial application of Tribology and case studies.

**Tribology in Bio-Medical application**

**Computational Material Design for Tribology Applications**

## **Important dates:**

Last date for submission of abstract: 30<sup>th</sup> September 2020

Notification of acceptance of abstract: 15<sup>th</sup> October 2020

Final manuscript submission: 10<sup>th</sup> November, 2020

Registration: 15<sup>th</sup> November 2020

Please upload your abstracts within **250 words** via **online submission link** given at **TSI website** at the **TRIBOINDIA 2020 icon**

<https://www.tribologyindia.org/>

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## Contacts:

Dr. Shubhabrata Datta/ Dr. Shubrajit Bhaumik  
Department of Mechanical Engineering  
SRM Institute of Science and Technology  
Kattankulathur Campus, Dist. Chengalpattu, Tamil Nadu 603023  
Mob: 9477485253/9840439097  
Email: [triboindia2020@srmist.edu.in](mailto:triboindia2020@srmist.edu.in)