

8th International Conference on Industrial Tribology

Theme : Tribology for Sustainable Development

7 – 9 December, 2012

The Westin Pune Koregaon Park, India

SOUVENIR



Under the Aegis of



ICIT 2012

Tribology Society of India



8th International Conference on Industrial Tribology

Technical Programme at a Glance

7 th December, 2012		8 th December, 2012				9 th December, 2012					
Inauguration (Inspire Hall) (9.00 Hrs. to 11.00 Hrs.)		Plenary Session II (Inspire Hall) (9.00 Hrs. to 11.00 Hrs.)				Plenary Session III (Inspire Hall) (9.00 Hrs. to 10.30 Hrs.)					
Inauguration of Exhibition /Poster Session followed by Tea Break (11.00 Hrs. to 11.30 Hrs.)		Tea Break (11.00 Hrs. to 11.15 Hrs.)				Tea Break (10.30 Hrs. to 11.00 Hrs.)					
Plenary Session I (Inspire Hall) (11.30 Hrs. to 13.00 Hrs.)		Business Meet-II (Inspire Hall) (11.15 Hrs. to 12.45 Hrs.)				Technical Session-IV (11.00 Hrs. to 13.00 Hrs.)					
Lunch (13.00 Hrs. to 14.00 Hrs.)		Lunch (12.45 Hrs. to 13.30 Hrs.)				IV-A IV-B IV-C IV-D					
Business Meet-I (Inspire Hall) (14.00 Hrs. to 15.30 Hrs.)		Technical Session-II (13.30 Hrs. to 15.30 Hrs.)				Valedictory Session (Inspire Hall) (13.00 Hrs. to 14.00 Hrs.)					
Tea Break (15.30 Hrs. to 15.45 Hrs.)		Tea Break (15.30 Hrs. to 15.45 Hrs.)				Lunch (14.00 Hrs. Onwards)					
Technical Session-I (15.45 Hrs. to 17.45 Hrs.)		Technical Session-III (15.45 Hrs. to 17.45 Hrs.)									
I-A	I-B	I-C	I-D	II-A	II-B	II-C	II-D	III-A	III-B	III-C	III-D
Cultural Program & Dinner (19.00 Hrs. Onwards)		GBM of TSI (18.00 Hrs. Onwards)									

(The details of programme are on the back pages 168-170)

Posters sessions : Venue: Near Exhibition area

Poster session I : 7th December 2012, 1000-1330 hrs

Poster Session II : 7th December 2012, 1400-1730 Hrs

Poster Session III : 8th December 2012, 0900 -1300 Hrs

Poster Session IV : 8th December 2012 1400-1730 Hrs

I-A	Bearing & Gear Tribology-I
I-B	Automotive Tribology
I-C	Condition Based Maintenance System
I-D	Contact Mechanics & Friction
II-A	Bearing & Gear Tribology-II
II-B	Lubricants & additives-I
II-C	Wear Mechanisms-I
II-D	Tribotesting-I
III-A	Bearing & Gear Tribology-III
III-B	Surface Treatment & Coatings
III-C	Tribology in Manufacturing
III-D	Wear Mechanisms-II
IV-A	Lubricants & additives-II
IV-B	Tribotesting-II
IV-C	Wear Mechanisms-III
IV-D	Special topics in Tribology

Message from President, TSI

Dear TSI Members,

Greetings to you all and welcome to ICIT-2012.

I am sure the organizing committee of ICIT-2012 will spare no efforts to live up to your expectations and ensure this event, both scientifically and professionally, is rewarding to each one of you.

On behalf of current TSI Executive Committee, I would like to take this opportunity to express my sincere thanks for your support and cooperation during the tenure of the outgoing executive committee, as our term ends with conclusion of ICIT-2012. The present Executive Committee assumed the office of TSI with an ambitious work plan in extending and expanding the reach of Tribology society of India in terms of its activities and dissemination of knowledge of this inter disciplinary science for the benefit of industry at large. We have kept you informed of various TSI initiatives and events over the past two years through our various communications, the TSI Website and these Newsletters. I am also happy that over past few years TSI has achieved a global orientation. Our collaborative linkages with STLE – USA are growing stronger while we are also emerging as a key player within the Asian Tribology community. I see great potential for TSI in the coming years.

We were successful in bidding and winning of the AsiaTrib-2014 conference for India amidst stiff international competition. This bears testimony of the faith reposed by Asian Tribology community in the technical and organizational prowess of TSI. Amidst this euphoria, it is imperative that each one of us at TSI had the onus of living up to the expectations of entire Asian tribology community in organizing the Asian Tribology Conference which is scheduled to be held in New Delhi during January 2014.

As we go forward, we need to involve the academia in our programs more closely and play a proactive role in promoting Tribology education at Undergraduate levels. I strongly believe that TSI can be a very important player in aligning the academic research efforts in Tribology with viable industrial solutions, for the betterment of our economy.

I would like to convey my best wishes to all of you for continued success in your professional and personal life.



Dr. R K Malhotra

President

Tribology Society of India

From the Desk of Secretary, TSI

Dear Colleagues,

As you read this, you would probably be in the midst of our biennial event ICIT-2012 at Pune. I hope all of you will find this Conference professionally enriching and very enjoyable. This is the last Newsletter to be brought out during the tenure of our current Executive Committee, which comes to an end after the Conference. It has been an exciting period of two years since the present EC took charge after ICIT-2010 at RDCIS – Ranchi. Overall this has been a mixed bag of experience for us at TSI. We achieved significant success in some of our endeavors, while more could have been done in some other areas. On the organizational front, activities at our Headquarters at IndianOil (R&D) – Faridabad have been streamlined thanks to the untiring efforts of our TSI Headquarters Team of Mr. A. K. Mehta, Mr. Ajay Kumar and Dr. Pankaj Bhatnagar. We have significantly enhanced the number of members enrolled in last two years. We have successfully obtained the registration under Sec. 12AA of the Income Tax Act in October 2011 and under Sec. 80G of the Income Tax Act in January 2012. These registrations will enable us to obtain significant benefits in the long run. The TSI website has been revamped with many new features and useful information. It is heartening to see that this Newsletter has also become a regular channel of our communication, thanks to the hard work by Dr. Har Prashad and Mr. Mehta.



The TSI Summer Schools in Tribology have now truly become National events. We have successfully organized the Summer Schools in June – 2011 and June -2012 and also succeeded in getting sponsorship support from the Department of Science & Technology, Government of India. The first National Tribology Conference (NTC-2011) of TSI was successfully organized at IIT Roorkee in December 2011. We have also made continued progress in our on-going collaboration with STLE – USA. The collaboration agreement has been renewed till 2016, which presents a great opportunity for enhanced interactions between the two Societies. The first TSI – STLE Certification Training and Examination was conducted at IIPM, Gurgaon in April, 2012. Though there were logistic problems faced with shipping of the examination papers to the US leading to a re-examination, the response to this event has been very encouraging and we hope to make this an annual event. The TSI Team actively participated in the 67th STLE Annual Meeting at St. Luis, Missouri in May 2012.

Let us also focus on some areas that need our urgent attention. We are making serious efforts in regularizing the publication of our Indian Journal of Tribology, and hopefully it will soon evolve into a publication of international standards. Our Local Chapters need to enhance their levels of activity in respective locations. We also need to boost our Industry interactions, so that the Indian Industry can reap full benefits from sound Tribological practices. Establishing Tribology curricula in engineering colleges and bringing out affordable Tribology text books for Indian students should also be our priority in coming years.

I would like to remind you of one more mega event of TSI, the prestigious ASIATRIB-2014 at New Delhi, which is being planned during early 2014. This will be a landmark event in the history of TSI and will make our Society a truly global player. I invite all of you to come forward and join hands with other TSI Members to realize our dreams about TSI.

I take this opportunity to convey my greetings to you and your family for a very enjoyable winter vacation and an exciting New Year 2013.

With best wishes,

Dr. Barun Chakrabarti
Secretary
Tribology Society of India

