

**Final Announcement**

*8<sup>th</sup> International Conference  
on Industrial Tribology*

7 – 9 December, 2012  
The Westin Koregaon Park  
Pune, India

**Theme: Tribology for Sustainable Development**

Under the Aegis of



**Tribology Society of India**

ICIT 2012



## Introduction

Tribology, the multidisciplinary science and technology of interacting surfaces in relative motion, has assumed significant importance globally due to its potential to reduce the huge quantum of losses occurring through friction and wear across all the industrial sectors. The name “Tribology”, denoting friction, lubrication and wear related studies, was coined by Prof. H. Peter Jost in 1966. Tribology Society of India (TSI) is a premier professional society set up with a vision to spread awareness and practice of Tribology all across India. To fulfil this mission, the Society has been organising International Conferences on Industrial Tribology (ICIT) biennially in different parts of the country, to enable the practitioners of Tribology to discuss and showcase their work in various aspects of this multidisciplinary area. The 8th International Conference on Industrial Tribology (ICIT-2012) is being organized by leading industries from the Public and Private Sector in India, under the aegis of TSI. The event will be held during 7 – 9 December 2012 in the Western part of India, at the beautiful city of Pune.

“Sustainability” has emerged as the subject of global concern at present, due to its impact on the survival of not only our future generations but the Earth itself. Leading Scientific, Political and Social organizations across the



world have realized that the processes involved in creation of industrial and economic wealth are not relevant unless these are sustainable. Tribology has a key role to play in sustainable development, due to its inherent potential for conserving energy, material, resources and the environment. Therefore, the Theme of the present Conference has been chosen as “Tribology for Sustainable Development”.

## National Steering Committee for ICIT 2012

To guide and steer the affairs of ICIT 2012, the Industry and Academia experts in the area of Tribology have kindly consented to be the members of the National Steering Committee (NSC) for ICIT 2012. The respected NSC members are:

- **Shri Makrand Nene**, Director (Marketing), IOCL
- **Shri K.K. Gupta**, Director (Marketing), BPCL
- **Smt. Nishi Vasudeva**, Director- Marketing, HPCL
- **Shri K. Venkataramanan**, Chief Executive Officer & Managing Director, L&T
- **Dr. R. K. Sinha**, Director, BARC
- **Shri S. A. Bhardwaj**, CMD, NPCIL, Mumbai
- **Dr. Shrikant R Marathe**, Director, ARAI- Pune
- **Shri Anand Kumar**, Director, Petrotech Society
- **Dr. Anil D. Sahasrabudhe**, Director, College of Engineering, Pune
- **Dr. Arun Jaura**, VP – Technology, Eaton Technologies Private Limited
- **Professor Devang V. Khakhar**, Director, IIT, Mumbai
- **Shri M.A. Ravichandran**, Head, Research, Kirloskar Oil Engines Ltd
- **Shri Rakesh Sarin**, Managing Director, Wartsila India Ltd
- **Shri Shishir Joshipura**, Managing Director, SKF India

## Technical Papers for ICIT 2012

There was an overwhelming response to the call for papers for ICIT 2012 and we received around 150 technical papers. To accommodate more papers for oral presentation, for the first time in the series of ICIT conferences, four parallel technical sessions, spread over the 3 days of conference have

been planned. The Technical papers, which could not be accommodated for oral presentation, will be presented in poster sessions on first 2 days of the conference, viz. 7th and 8th of December 2012.

The 2012 ICIT will have 3 plenary sessions during the 3 days event. The speakers for the plenary sessions include, among others:

1. Mr. Jerry Byers, President STLE, USA
2. Prof. Koshi ADACHI, Laboratory of Nanointerface Engineering, Tohoku University, JAPAN
3. Prof. Wilfried Bartz, Technical University, Esslingen, Germany
4. Prof. Satish Kailas, Indian Institute of Science, Bangalore, India
5. Dr. Georges Limbert, National Centre for Advanced Tribology at Southampton (nCATS) & Bioengineering Sciences Research Group, UK
6. Mr George Plint, Phoenix Tribology Ltd, UK
7. Dr. B. Basu, Executive Director, Indian Oil Corporation, R&D Centre, Faridabad

The details of technical content for ICIT 2012, in terms of Inaugural Session, Plenary Sessions, Parallel Technical Sessions for Oral Presentation, Poster Sessions and Business Meet Sessions are shown in the Technical Program below.

## Technical Program\*\*

7th December 2012				8th December 2012				9th December 2012			
Inauguration (9.00 am to 11.00 am)				Plenary session II (9.00 am to 11.00 am)				Plenary session III (9.00 am to 11.00 am)			
Inauguration of Exhibition / poster session followed by Morning Tea Break (11.00 am to 11.30 am)				Morning Tea Break (11.00 am to 11.30 am)				Morning Tea Break (11.00 am to 11.30 am)			
Plenary session I (11.30 am to 1.00 pm)				Business Meet-II (11.30 am to 1.00 pm)				Technical Session-IV (11.00 am to 1.00 pm			
								IV-A	IV-B	IV-C	IV-D
Lunch (1.00 pm to 2.00 pm)				Lunch (1.00 pm to 1.30 pm)				Valedictory Session (1.00 pm to 2.00 pm)			
Business Meet-I (2.00 pm to 3.30 pm)				Technical Session-II (2.00 pm to 3.30 pm)				Lunch & End of Conference			
				II-A	II-B	II-C	II-D				
Afternoon Tea break (3.30 pm to 3.45 pm)				Afternoon Tea Break (3.30 pm to 3.45 pm)							
Technical Session-I (3.45 pm to 5.45 pm)				Technical Session-III (3.45 pm to 5.45 pm)							
I-A	I-B	I-C	I-D	III-A	III-B	III-C	III-D				
Cultural Program & Dinner (7.00 pm onwards)				GBM of TSI (6.00 pm onwards)							

\*\* tentative

I-A Bearing & Gear Tribology I  
I-B Automotive Tribology  
I-C Condition Based Maintenance System  
I-D Contact Mechanics & Friction I

II-A Bearing & Gear Tribology II  
II-B Lubricants and Additives I  
II-C Wear Mechanisms I  
II-D Tribo-testing 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 and Additives II  
IV-B Tribo-testing II  
IV-C Wear Mechanisms III  
IV-D Special Topics in Tribology

## Education Courses

Following two Education Courses are being conducted as Pre-Conference Event for the 8th ICIT. The two courses will run in parallel on 6th December 2012 (Thursday) at the venue of the conference. A maximum of 25 participants for

each course will be registered on first-come-first-served basis. The two courses are:

- 1) Basics of Tribology and
- 2) Automotive Tribology

### Venue and Time schedule for the Education Courses

Venue : The Westin, Koregaon Park, Pune, India

Date of the Courses: 6 December 2012 (Thursday)

Time Schedule:

Registration: 09.00 – 09.30 hrs

Lecture Sessions: 09.30 – 17.30 hrs

The following fees are payable for participation in the Pre-Conference Education Courses :

Students: Rs. 2000/-

Others : Rs. 3000/-

Payments related to Education Course Registration Fee are to be made through crossed demand draft/ cheque payable at par, drawn in favour of “Tribology Society of India” payable at New Delhi/Faridabad.

The detailed course content, Expert Speakers for various sessions and Registration Form for the education course can be viewed at TSI website.



### Hotels for stay during the 2012 ICIT

#### Hotel Westin, Koregaon Park, Pune

There are limited rooms available at Hotel The Westin Koregaon Park Pune, the venue of 2012 ICIT. The special tariff negotiated by TSI for this hotel is:

Deluxe Room Rs 5,800/- plus taxes\*\*  
(for single / double occupancy)

*\*\* The above room rates are inclusive of Buffet Breakfast. The above rates are on per room, per night basis.*

## Other Hotels\*

Hotel	Single	Double	Contact Details
Gandharv Residency	3000	4000	Mr Nitin Shete +91 99229 36972
Studio Estique	-	3000**	Mr Ganapati Patil +91-96651 23177
The Central Park	4000	4000	Manish Chandeekar +91 97300 23082

\*1) All the above rates are specially negotiated for ICIT-12. Those delegates, who are desirous of availing these hotels at the above rates may directly contact the respective hotels giving reference to ICIT-2012 for their bookings individually.

2) Most of the hotels offer complimentary breakfast, Air Port Pick up / drop etc.

3) For more details, click the link 'Pune Hotel for 8th ICIT' at the final announcement button on TSI site home page

\*\* Extra person would be charged Rs. 1000 per night

## Technical Exhibition

Good response has been received from the industry for exhibiting their product and services. Some exhibition slots are still available. Lubricant & Additive Suppliers, Equipment



Manufacturers, Specialist Service Providers, Technical Book Publishers and related agencies are invited to participate in the Technical Exhibition to highlight their products and services. Exhibition space of about 3 m x 2.5 m will be provided to each Exhibitor. A nominal fee of Rs 50,000/- (US \$ 1500) will be charged for each exhibition stall, which will be provided with adequate furnishing and basic illumination facilities. Each Exhibitor will be entitled to send one complimentary delegate to attend the Conference.

Among others, following exhibitors have confirmed their participation;

- Ace Instruments, Delhi
- Advance Tech, Mumbai

- AIMIL, Mumbai
- ASPEX, USA
- BRUKER- ICON, Mumbai
- DANTECH KITTIIWAKE
- DUCOM, Bangalore
- Dynamic Tech Systems
- Hauser Techno Coatings, The Netherlands
- Phoenix Tribology Ltd.
- RTEC, USA
- SARBI Engg & WHG P Ltd., Mumbai

## Business Meet

Manufacturers / Suppliers of equipment, lubricants, additives and Service Providers related to Tribology are invited to participate in the Business Meet sessions to showcase their products, services and innovations through multimedia presentation. Some slots are still available. A nominal fee of Rs 40,000/- (US \$ 1200) will be charged for each presentation of 30 minutes duration. One complimentary delegate from each of the participating organizations will be allowed to attend the Conference.

For the 'Business Meet', among others, following organizations will be participating:

- STLE, USA

- RITECH, Instruments, USA
- SKF Österreich AG

## Souvenir & Advertisements

We invite all organizations to take the opportunity of promoting their products and services through advertisements in the ICIT-2012 Conference Souvenir. Advertisements for the Souvenir can be booked at the following rates:

- |                            |                          |
|----------------------------|--------------------------|
| • Back Cover (Colour):     | Rs 40,000/- (US \$ 1200) |
| • Front/Back Inside        |                          |
| Cover Page (Colour):       | Rs 30,000/- (US \$ 750)  |
| • Colour Full Page:        | Rs 20,000/- (US \$ 500)  |
| • Black & White Full Page: | Rs 15,000/- (US \$ 350)  |

The advertisement material is to be provided in a high resolution, print-ready soft copy by 24 November, 2012.

## Conference Sponsorship

The Conferences organised by TSI in the past have always received significant support from various industries. These include practically every industry sector like Oil & Gas, Steel, Mining, Chemicals, Power, Engineering and Allied Industries, both from India and abroad. The sponsors get wide publicity



and networking opportunities in the Conference through display of banners and backdrops, mention in the Conference Proceedings and Souvenir and other associated channels.

Reputed Companies, Organisations and Trade Associations are invited to join this International Event as Sponsors of the Conference. The details regarding various categories of sponsorship are given below:

Category	Charges		Facilities		
	Indian (Rs in Lakhs)	Overseas (US \$)	Free Delegates	Company Logo on all Conference Materials	Free Colour Advt. in Souvenir
Platinum	5.00	12000	4	√	√
Diamond	3.50	9000	3	√	√
Gold	2.00	6000	2	√	√
Silver	1.00	3000	1	√	√

## Conference Fees

### Delegate Registration Fees

The following Conference Registration Fees are payable by different categories of Delegates:

Category of Delegate	TSI Member	Non Member
Industry & Industrial R&D	Rs. 9000/-	Rs. 10000/-
Academia (Faculty)	Rs. 5000/-	Rs. 6000/-
Academia (Student)	Rs. 3000/-	Rs. 4000/-
Overseas Delegate	US \$ 250	US \$ 300

## Payment Details

All payments related to Delegate Registration Fees, Sponsorship, Advertisements, Technical Exhibition, Business Meet, Education Course Fee etc., are to be made through crossed demand draft / cheque payable at par, drawn in favour of "Tribology Society of India" payable at New Delhi/ Faridabad. Money can also be transferred directly to the Conference Account as given below:

A/c Name : Tribology Society of India  
A/c No. : 31710524711  
IFSC / NEFT Code : SBI N 0010449  
Bank's Name & Address : State Bank of India, IOC Complex Branch, Sector 13, Faridabad - 121007



## Cultural Program

A cultural event showcasing the rich artistic traditions of India will be organized during the Conference in the evening of 7th December 2012.



## About Pune

Pune, Queen of the Deccan, Oxford of the East, is the ninth largest metropolis in India, the second largest in the state of Maharashtra after Mumbai, and the largest city in the Western Ghats. Once the center of power of the Maratha Empire, it is situated 560 metres above sea level on the Deccan pla-



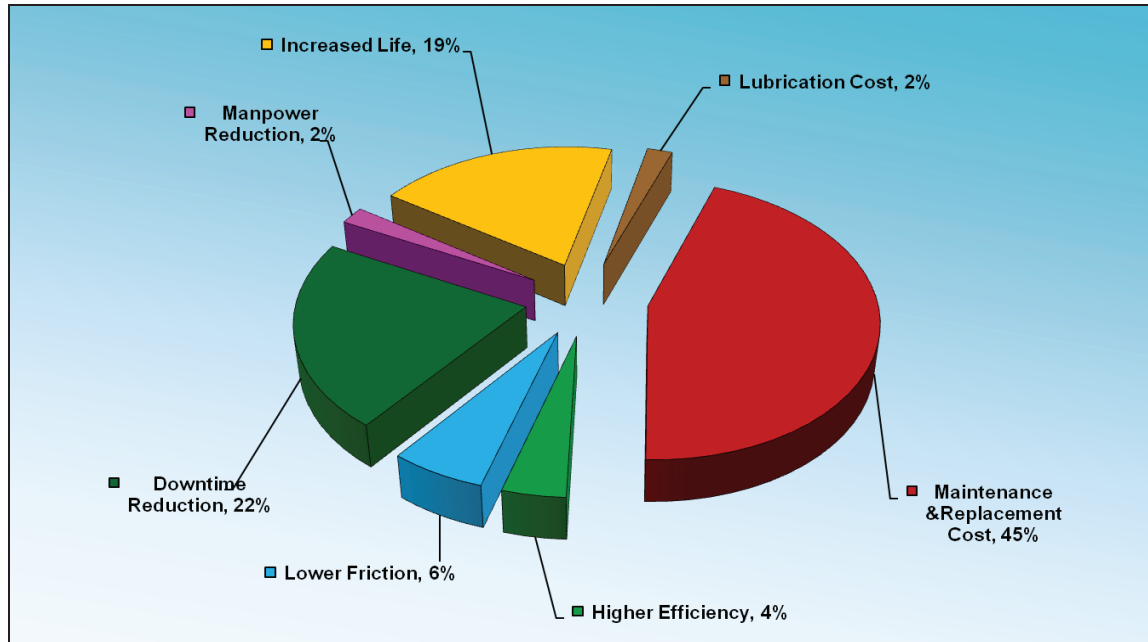
teau at the confluence of the Mula and Mutha rivers .

Today, Pune is known for its educational facilities and relative prosperity. Pune is the cultural capital of Maharashtra. Pune has well-established manufacturing, glass, sugar, and forging industries since the 1950-60s. It has a growing industrial hinterland, with many information technology and automotive companies setting up factories in Pune district. The city of Pune is well connected with Mumbai and rest of the country by road, rail and air transport.

## Local Sightseeing

Conference delegates will have the opportunity to enjoy local sightseeing in and around the beautiful city of Pune. More details can be shared with prospective participants on request.

**Advent of tribology: The Jost Report 1966 coined the word Tribology for the new interdisciplinary science and technology of interacting surfaces in relative motion and brought out the potentials of saving through correct usage of Tribology principles and practices as shown in the pie chart.**



**8th INTERNATIONAL CONFERENCE ON INDUSTRIAL TRIBOLOGY**

**(07-09 DECEMBER, 2012), PUNE**

**Registration Form**

(Please use separate form for each delegate. Copy of this form may be used)

Name..... Designation .....

Organisation .....

Mailing Address.....

Telephone..... Landline.....

Mobile..... Fax .....

Email.....

Category (Please tick mark) Author..... Delegate.....

Exhibitor..... Business meet.....

Fee of Rs..... US\$.....

is paid by Cash/Draft/Cheque/Bank Transfer No..... Dated: .....

on Bank .....

(Draft/Cheque should be in favour of **"Tribology Society of India"**, payable at Faridabad / New Delhi)

**Mailing Address:**

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## Tribology Society of India

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