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# 4th

## INTERNATIONAL CONFERENCE ON INDUSTRIAL TRIBOLOGY



Theme :  
**Tribology for  
Equipment Reliability**

**15-18 December, 2004**

Venue :  
**Hyatt Regency, Mumbai, India**

### **Organised By :**

Indian Oil Corporation Ltd.  
Bharat Petroleum Corporation Ltd.  
Hindustan Petroleum Corporation Ltd.  
Larsen & Toubro Ltd.

under the aegis of  
Tribology Society of India  
[www.tribologyindia.com](http://www.tribologyindia.com)

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## Introduction

Indian Oil Corporation Ltd, Hindustan Petroleum Corporation Ltd, Bharat Petroleum Corporation Ltd & Larsen & Toubro Limited under the aegis of Tribology Society of India are proud to announce the Fourth **International Conference on Industrial Tribology** to be held at Mumbai, India from 15<sup>th</sup> to 18<sup>th</sup> December 2004. After the first World Tribology Conference of Industrial Tribology of 1972 held at New Delhi with a focus on the development of the discipline of Tribology in India, biennial National Conferences were regularly organized to provide a forum for sharing of experience of Tribologists from Industry, Academic and Research Institutions. In December 1997, the First International Conference was organized at Calcutta with a theme '**War against Wear**' to commemorate 25 years of the Indian contribution in advancement of the science of Tribology. After that, ICITs have been organized at Hyderabad and Jamshedpur.

**The Fourth International Conference on Industrial Tribology** is being organized by Indian Oil Corporation Ltd, Hindustan Petroleum Corporation Ltd, Bharat Petroleum Corporation Ltd & Larsen & Toubro Limited at Mumbai with the theme of **Tribology in Equipment Reliability** to bring to focus the role that Tribology can play in improving the reliability of equipments. This is imperative in view of the rapid advances in technology throughout the twentieth century that have contributed to the development of newer machines and equipments.

## Contents

The theme **Tribology in Equipment Reliability** is proposed to be covered during the conference. Besides the following broad areas related to Tribology will be covered in oral and poster sessions. About 80 papers have been received for the conference which will be covered in the following technical sessions :

- A. Tribology in Equipments Reliability
- B. Lubrication of Equipments & Energy Conservation
- C. Lubricants & Additives
- D. Wear & Surface Engineering
- E. Maintenance Tribology & Condition Monitoring
- F. Modelling & Simulation
- G. Emerging Trends in Automotive Lubrication
- H. Tribology of Rotating Machinery
- I. Tribotesting & Analytical Techniques
- J. Materials and Coatings for Tribological Applications

## Key Speakers

Following eminent personalities have agreed to take part in the conference and deliver key note lectures

Dr SK Biswas, IISc Bangalore

Mr AG, Plint Phoenix Tribology, UK

Dr G Sundararajan Director, ARCI, India

Dr Simon C Tung, GM( R&D), USA

Dr Tom Perry, GM( R&D ), USA

Mr H Weber, Optimol, Germany

Mr Mukesh Rohtagi, Director ( Refineries ) BPCL, Mumbai

Mr MG Poduval, SKF India, Chennai

Nippon Steel, Japan

Dr Braham Prakash, University of Lulea, Sweden

Dr Ajay Kapoor, University of Sheffield. UK

## Exhibition and Business Meet

ICIT 04 is offering an unique opportunity for organizations to hold exhibition of their products and also participate in the Business meet to promote their products. All the stalls for Exhibition and slots for Business Meet have been already booked. However, companies may participate by inserting advertisements in the Souvenir proposed to be released during the conference. Following are the rates for advertisements.

Back Outside Full Page ( Colour )	Rs 30000/-
Front Inside Full Page ( Colour )	Rs 20000/-
Back Inside Full Page ( Colour )	Rs 20000/-
Inside Full Page ( Colour )	Rs 15000/-
Inside Full page ( B&W )	Rs 8000/-
Inside Half page ( Colour )	Rs 8000/-
Inside Half page ( B&W )	Rs 4000/-

Requests for advertisements may be sent to the Organising Secretary.

## Education Courses

There will be two education courses on 15th December 2004 on the eve of the ICIT 04 on following two topics

**Basics of Tribology** : Coordinator Mr AK Mehta / Dr MR Tyagi

**Automotive Lubrication** : Coordinator Mr Mukesh Gupta / Dr GK Sharma

The course will consist of one day theory course followed by a visit to an industry in Mumbai. The course fee will be Rs 4000/- per participant. Students from academic Institution can participate by paying a concessional fee of Rs 500/- only.

## Registration Fees

The registration fee for the Conference will cover:

- Participation in Technical Sessions.
- Copy of the Conference Proceedings.
- Conference Kit.

- Lunch and Tea during the Conference.
- Conference Banquet.
- Local transport arrangements for arranged visits.

### Registration fee structure

	TSI (Life-members)	Others
For attending only Conference		
<input type="checkbox"/> Industry delegates	Rs.4000/-	Rs.5000/-
<input type="checkbox"/> Delegates from R&D And academic Institutions	Rs.2000/-	Rs.2500/-
<input type="checkbox"/> Bonafide Students	Rs.500/-	
For attending both conference and Education Course		
<input type="checkbox"/> Industry delegates	Rs.6000/-	Rs.7000/-
<input type="checkbox"/> Delegates from R&D and academic Institutions	Rs.4000/-	Rs.4500/-
<input type="checkbox"/> Bonafide Students	Rs.1000/-	
Overseas delegates	US \$400	

Registration fee and other payments should be sent to the Organising Secretary in form of a DD /Pay Order/Cheque drawn in favour of TSI-ICIT'04 payable at Mumbai, India

### About Mumbai

Mumbai being the commercial capital of India offers a range of accommodation to suit every budget.

Mumbai is well connected by air nationally and internationally and by train and road to various cities of the country. It is a multicultural city and offers a variety of tourist attractions such as the Gateway of India, Prince of Wales Museum, Elephanta Caves etc. The weather is generally very pleasant during the month of December. The temperature range during the daytime in December will be in the range of 30 Deg C and that during the night will be around 20 deg C. The humidity ranges from 50-80 % RH owing to its proximity to the sea.

### Hotel Reservation

Hyatt Regency	Single	Double
Guest Room	Rs 3500/US\$70	Rs 4000/US\$80
Club Room	Rs 5500/US\$110	Rs 6000/US\$120

Arrangements have also been for accommodation in Hotels around the conference venue at tariffs in the range of 1500/- to Rs. 2000/-. These can be booked on making request in writing to the Organizing Secretary.

### For further information Please Contact :

Mr S K Swaminathan

**Organising Secretary, ICIT 2004**

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N.B. : Registration fee and other payments should be made by Demand Draft/Pay Order/Cheque drawn in favour of TSI-ICIT'04, payable at Mumbai, India and should be sent to the Organising Secretary.

### Programme Details

December 15th 2004

- |                 |   |
|-----------------|---|
| 0900 - 1700     | Education Course  |
| 1000 - 1200     | TSI EC Meeting  |
| 1400 - 1700     | Registration  |
| 0400 - 0600 PM: | Conference Inauguration   |
|                 | - Inauguration by Shri MS Ramachandran,<br>Chairman , Indian Oil Corporation Limited<br>New Delhi |
|                 | -Theme lecture Mr Mukesh Rohtagi,<br>Director Refineries , BPCL Mumbai                            |
|                 | - High Tea  |

### **December 16th 2004**

0930-1100 PM	Plenary session I
1100-1130 PM	Tea Break
1130-1300 PM	Parallel Technical Sessions I & II
1300-1400 PM	Lunch Break
1400-1530 PM	Parallel Technical Sessions III and IV
1530-1600 PM	Tea Break
1600-1730 PM	Business Meet
1900-2200 PM	Dinner and Cultural Programme

### **December 17th 2004**

0900 -1100 PM	Plenary Session II
1100-1130 PM	Tea Break
1130-1300 PM	Parallel Technical Sessions VI and VII
1300-1400	Lunch Break
1400-1530	Parallel Technical Sessions VII and VIII
1530-1600 PM	Tea Break
1600-1730 PM	Parallel Technical Sessions IX and X
1800-1900 PM	General Body Meeting
1900-2200 PM	Dinner and Cultural Programme

### **December 18th 2004**

0900-1030 PM	Plenary Session III
1030-1045	Tea Break
1045-1215 PM	Parallel Technical Sessions XI and XII
1230-0200 PM	Concluding Session
0200-0300	Lunch

### **Conference Venue**

The conference will be held at the following venue during 15th - 18th December 2004.

#### **HYATT REGENCY MUMBAI**

Sahar Airport Road  
Mumbai 400099  
INDIA

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Website : [www.mumbai.regency.hyatt.com](http://www.mumbai.regency.hyatt.com)