**A BRIEF REPORT OF TWO DAY WORKSHOP ON**

**“INDUSTRIAL TRIBOLOGY”**

**1. Premeable:**

Tribology subject, needless to say, is very important in Mechanical and Production Engineering. Modern day machine design is incomplete without incorporation of tribological aspects. Savitribai Phule Pune University has introduced ‘Tribology’, ‘Industrial Tribology’ ‘Tribology and Surface Engineering’ subjects at undergraduate and post-graduate levels in Mechanical and Production Engineering. This workshop was proposed to assist faculty members, PG/PhD students in supplying adequate information for effective teaching-learning and highlight key areas of research in the field of tribology.

**2. Objective:**

The workshop was design to cater to the needs of faculty members in Mechanical and Production Engineering, Post-graduate Students, Research Scholars pursuing or aspiring to do research in the area of Tribology, Practicing Engineers from Industry, Lubricant Manufacturers etc.

**3. Date and Venue:**

The workshop on “Industrial Tribology” took place on **5-6 October 2015** at the **Department of Mechanical Engineering, All India Shri Shivaji Memorial Society’s College of Engineering**, Kennedy Road, Pune 411 001. It was conducted in association with **Tribology Society of India**, Mumbai-Pune Chapter and was supported by DUCOM INSTRUMENTS Pvt. Ltd. and Prentice Hall of India (PHI).

**4. Resource Persons:**

The expert lectures of professionals from academia, industry and research were organized. Participants got ample opportunity to interact with following professionals.

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| **S No** | **Name of****Resource Person** | **Designation** | **Affiliation** |
| 1 | Dr N L Soni | Outstanding Scientists | BARC, Mumbai |
| 2 | Dr H Bagchi | Professor Emeritus, Dept. of Production & Industrial Engg. | COEP, Pune |
| 3 | Dr V M Phalle | Associate Professor & TPO | VJTI, Mumbai |
| 4 | Dr D G Thakur | Associate Professor | DIAT, Pune |
| 5 | Mr S R Durugkar | Sr Dy Manager & Vice Chairman TSI- Mumbai Pune Chapter. | L&T Hydrocarbon, Mumbai |
| 6 | Mr P K Limaye | Scientific Officer “H” | BARC, Mumbai |
| 7 | Dr B D Bachchhav | Associate Professor | AISSMSCOE, Pune |
| 8 | Mr Amit Ganguli | Sr Technical Manager | DUCOM Instruments |

**5. Agenda:**

 The workshop started with a welcome address by Dr B D Bachchhav, Co-ordinator of the workshop. He briefly introduced the objective of the workshop. Dr K R Jethani, Head of the Department, Chemical Engineering introduced about the AISSM Society and the college of engineering. Dr. N. L. Soni, Outstanding scientists and Head Tribology at Bhaba Atomic Research Centre and Chief Guest for the Workshop, appreciated the efforts of organizing committee and appropriateness of the workshop theme. He discussed various issues connected with water lubricated bearing and its use at BARC in his keynote address. Mr S R Durugkar Sr Dy Manager & Vice Chairman TSI- Mumbai Pune Chapter, discussed about TSI activities. Mr D Y Dhande presented the vote of thanks.

All other expert lectures were conducted as per schedule. The detailed agenda of the workshop is attached in Annexure-I.

**6. Participants:**

Total 49 participants were present to attend this two day workshop.

* Outside faculty members: **10**
* Ph.D. Scholars/Research students: **05**
* PG students: **34**

A detailed list of participants is attached as an Annexture-II.

**7. Outcome of the workshop:**

The workshop on “Industrial Tribology” was very fruitful. The participants and resource persons from BARC and L&T agreed upon following recommendations for their future work:

* Participants are able to apply the knowledge to identify, analyze and solve complex tribological problems.
* Participants are able to demonstrate the knowledge of tribology for sustainable development.
* Participants are able to determine tribological test regimes to solve the problems related thereto.
* Dr N L Soni & Mr P K Limaye from BARC invited participants as well as AISSMSCOE for joint research work in the field of tribology.
* Dr V M Phalle invited for exchange of PG students for project work.
* Mr S R Durugkar from L&T Hydrocarbon agreed upon to enhance Industry-Institute Interaction, and spreading awareness about TSI activities.
* Motivation to built capacity related to tribology at AISSMSCOE.
* Providing technical advice to write research proposals and possible funding.
* Campaigning for Tribology Society of India (TSI) for future benefits.

Submitted By

**Dr B D Bachchhav**

**October 14, 2015**