

2nd SUMMER SCHOOL IN TRIBOLOGY
Venue: liPM, Gurgaon ; Duration: 21st – 24th June, 2010

Programme Schedule

21st June, 2010

INAUGURAL SESSION

09:30 – 10:30 hr. Welcome Address

Mr. K. K. Gupta, ED liPM

About the Programme

Dr. R. K. Malhotra, Vice President TSI and Executive Director, R & D, IOCL

Special Address

Mr. Anand Kumar, President TSI and Director R & D, IOCL

Inaugural Address and Theme Lecture

Dr. A. Sethuramiah, Former Prof. ITMMEC, IIT Delhi

Vote of Thanks

Dr. Barun Chakrabarti, Secretary TSI and Joint GM (R&D), L&T Mumbai

10:30 – 11:00 hr. Group Photograph / Tea Break

11:00 – 12:00 hr. Session 1

Theme : Introduction to Tribology

Speaker: Dr. G. K. Sharma, Dir. India Business Development, SWRI

12:00 – 13:00 hr. Session 2

Theme : Lubricating Oils and Additives

Speaker: Dr. R. T. Mooken, GM, R & D Centre, IOCL

13:00 – 14:00 hr. Lunch Break

14:00 – 15:30 hr. Session 3

Theme : Basics of Friction, Wear and Lubrication

Speaker: Prof. A. Sethuramiah, Former Prof. ITMMEC, IIT Delhi

15:30 – 16:30 hr. Session 4

Theme : Fluid Film Lubrication

Speaker: Prof. S. C. Sharma, IIT, Roorkee

16:30 – 16:45 hr. Tea Break

16:45 – 17:30 hr. Session 5

Theme : Gear Lubrication

Speaker: Dr. B. Chakraborty, Secy. TSI and Joint GM (R&D), L&T Mumbai

17:30 – 18:15 hr. Special Session

Theme : Project Work for participants
Speaker: Mr. A. K. Mehta, ED TSI

22nd June, 2010

- 09:00 – 09:45 hr. Session 6**
Theme : Grease Technology
Speaker: Dr. K. P. Naithani, Executive Director, R & D Centre, IOCL
- 09:45 – 10:30 hr. Session 7**
Theme : Case Studies on Advanced Materials for Steel Industry
Speaker: Dr. Ram Avtar, GM, RDCIS, Ranchi
- 10:30 – 10:45 hr. Tea Break**
- 10:45 – 11:30 hr. Session 8**
Theme : Rolling Element Bearings
Speaker: Mr. S. Dampur, NEI, Jaipur
- 11:30 – 12:15 hr. Session 9**
Theme : Automotive Lubrication
Speaker: Mr. Mukesh Gupta, Consultant
- 12:15 – 13:00 hr. Session 10**
Theme : Condition Monitoring Through Oil Analysis
Speaker: Mr. Deepak Sharma, Director Kittiwake
- 13:00 – 14:00 hr. Lunch Break**
- 14:00 – 14:45 hr. Session 11**
Theme : Coatings for Wear Protection
Speaker: Dr. S. V. Joshi, Associate Director, ARCI, Hyderabad
- 14:45 – 15:30 hr. Session 12**
Theme : Synthetic Lubricants – Current Status and Way Forward
Speaker: Dr. Sarita Garg, Sr. Mgr, R & D Centre, IOCL
- 15:30 – 16:15 hr. Session 13**
Theme : TSI – Its New Initiatives and Way Forward
Speaker: Mr. A. K. Mehta, Executive Director, TSI
- 16:15 – 16:30 hr. Tea Break**
- 16:30 – 17:30 hr. Project Work**
- 19:30 – 22:00 hr. Cultural Programme followed by Dinner – Host: ED (liPM)**

23rd June, 2010

- 07:30 – 09:00 hr. Start from liPM by AC Bus and reach R & D Centre, IOCL at Faridabad**
- 09:30 – 10:30 hr. Session 14**
Theme : Tribological Testing
Speaker: Mr Ajay Kumar, Senior Manager, R & D Centre, IOCL
- 10:30 – 11:30 hr. Session 15**
Theme : Analytical Techniques in Modern Tribology
Speaker: Dr. A. S. Sarpal, GM, R & D Centre, IOCL
- 11:30 – 12:00 hr. Tea Break**
- 12:00 – 13:00 hr. Session 16**
Theme : Tribology in 21st Century
Speaker: Prof. S. V. Kailas, IISc, Bangalore
- 13:00 – 14:00 hr. Lunch Break**
- 14:00 – 15:00 hr. Session 17**
Theme : Environmental Aspects of Lubrication
Speaker: Dr. J. Bhatia, Envirotech, Mumbai
- 15:00 – 15:30 hr. Tea Break**
- 15:30 – 18:00 hr. Visit to Laboratories at R & D Centre, IOCL**
- 18:30 – 20:30 hr. Start from R & D Centre, Faridabad by AC Bus and reach liPM at Gurgaon**

24th June, 2010

- 09:00 – 10:00 hr. Session 18**
Theme : Importance & Economic Impact of Tribology
Speaker: Shri C. Mishra, Consultant
- 10:00 – 11:00 hr. Session 19**
Theme : Industrial Lubrication Practices
Speaker: Dr. A. Prabhakaran, Sectional Head, Tribology Group,
Tata Steel
- 11:00 – 11:15 hr. Tea Break**
- 11:15 – 12:30 hr. Session 20**
Theme : Energy Conservation and Tribology
Speaker: Shri C. Mishra, Consultant
- 12:30 – 13:30 hr. Lunch Break**
- 13:30 – 14:45 hr. Session for Presentation**
Group Presentation by Participants on **Project – “A”**
- Panelist: Dr. R. K. Malhotra, Vice President TSI
- Dr. Harish Hirani, Prof. IIT, Delhi
- Dr. K. P. Naithani, Executive Director, R & D, IOCL
- Mr. C. Mishra, Consultant
- Mr. V. Martin, DGM, R & D, IOCL
- 14:45 – 15:00 hr. Break**
- 15:00 – 16:00 hr. Valedictory Session**

Seated on the Dias :

- Dr. K. P. Nathani, ED (R & D), IOCL
- Mr Amitabh Choudhary, IIPM
- Mr. C Mishra, Former GM, TISCO Jamshedpur
- Mr. Ajay Kumar Harinarain, Treasurer TSI and SRM, R & D, IOCL
- Mr AK Mehta ED TSI