



Department of Science & Technology

7th SUMMER SCHOOL IN TRIBOLOGY
Venue: liPM, Gurgaon: Duration: 8-12 June, 2015

Programme Schedule

8th June, 2015

INAUGURAL SESSION

- 09:30 – 10:30 hr. Inaugural Session-**
Chief Guest : Mr R Tayal , Adviser DST
Mr R Suresh, ED (LT) IOC R&D and President TSI,
Guest of Honour : Mr SPS Jolly ,ED liPM, Gurgaon
- 10:30 – 11:00 hr. Group Photograph & Hi Tea**
- 11:00 – 13:00 hr. Session 1**
Theme : Basics of Tribology (F W & L)
Speaker: Prof. Satish V Kailash, IISc, Bangalore
- 13:00 – 13:45 hr. Lunch Break**
- 13:45 – 15:15 hr. Session 2**
Theme: Nano Tribology
Speaker: Prof Sujeet K Sinha , IIT Delhi
- 15:15 – 16:45 hr. Session 3**
Theme: Tribology of Machine Elements
Speaker: Prof Ram Turaga, GITAM University
- 16:45 – 17:00 hr. Tea Break**
- 17:00 – 18:15 hr. Session 4**
Theme: Lubricants- Chemistry of Base Oils, Additives
and Formulated Lubricants
Speaker: Dr SSV Ramakumar, IndiaOil (R&D)
- 18:15 – 18:30 hr. Tea Break**
- 18:30-20:00 hr. Guest Lecture on “Space Tribology”**
Speaker: Prof N Vedachalam, VSSC,ISRO

9th June, 2015

- 09:00 – 10:30 hr. Session 5**
Theme : Tribology & Rheology of Lubricating Greases
Speaker: Dr. Naveen Pokhriyal, IndiaOil (R&D)
- 10:30 – 10:45 hr. Tea Break**
- 10:45 – 12:30 hr. Session 6**
Theme : Surface Characterisation in Tribology
Speaker: Prof M S Bobji, IISc, Bangalore
- 12:30 – 13:30 hr. Lunch Break**
- 13:30 – 15:00 hr. Session 7**
Theme : Basics of Fluid Film Lubrication
Speaker: Prof Satish C Sharma, IIT Roorkee
- 15 :00 – 15:15 hr. Tea Break**
- 15:15 – 16:45 hr. Session 8**
Theme: Surface Modifications for Improved Tribological Characteristics
Speaker: Dr S V Joshi, ARCI, Hyderabad.
- 16 :45 – 17:00 hr. Tea Break**
- 17:00 – 18:30 hr. Session 9**
Theme: Condition Monitoring through Oil Analysis
Speaker: Mr Deepak Sharma, Kittiwake Productive Tech. P Ltd.
- 18:30-19:30 Guest Lecture**
Theme : “ **Tribology & Initiatives of TSI**”
Speaker : A K Mehta ED-TSI

10th June 2015

- 09:00-09:15** **IOC R&D Film**
- 09:15-10:45** **Session 10**
Theme: Automotive Tribology
Speaker: Dr Reji Mathai, IndiaOil, (R&D)
- 10:45 – 11:00 hr.** **Tea Break**
- 11:00-12:15** **Session 11**
Theme: Tribo Testing and Performance Evaluation
of Lubricants & Materials
Speaker : Mr Ajay K Harinarian, IndiaOil, (R&D)
- 12:15 – 13:30 hr.** **Session 12**
Theme : Gear Tribology
Speaker: Mr S R Durugkar, L&T Hydrocarbon Engg.
- 13:30 – 14:15 hr.** **Lunch Break**
- 14:15 – 17:15 hr.** **Visits to Tribology Area Related Labs in 3 groups**
- 17:15 – 17:30 hr.** **Tea Break**
- 17:30 – 19:00 hr.** **Return to liPM**

11th June, 2014

- 09:00 – 10:15 hr. Session 13**
Theme : Bio Tribology
Speaker: Dr A P Harsha, IIT, BHU, Varanasi
- 10:15 – 11:30 hr. Session 14**
Tribology of Hydraulic Pumps and Compressors
Speaker: Mr R Mahapatra, IndiaOil, (R&D)
- 11:30 – 11:45 hr. Tea Break**
- 11:45 – 13:00 hr. Session 15**
Theme : Role of Corrosion in Tribology
Speaker: Mr Q M Amir, IndiaOil, (R&D)
- 13:00 – 13:30 hr. Lunch Break**
- 13:45 – 15:00 hr. Session 16**
Theme : Non Destructive Testing in Tribology
Speaker: Dr. C Kannan, IndiaOil, (R&D)
- 15:00 – 16:15 hr. Session 17**
Theme: Condition Monitoring and Diagnostics
Speaker: Dr Barun Chakrabarti, L&T Hydrocarbon Engg.
- 16:15 – 16:30 hr. Tea Break**
- 16:30 – 17:45 hr. Session 18**
Theme: Tribology of Rolling Element Bearings
Speaker: Mr SPRS Negi, Schaeffler India.
- 17:45 – 18:45 hr. Session 19**
Theme: Tribology of Manufacturing Operations
Speaker: Mr R Mahapatra, IndiaOil, (R&D)
- 18:45 – 19:00 hr. Tea Break**
- 19:00 – 20:00** Project work in groups**

12th June, 2014

08:45 – 10:45 hr. Examination with Objective Type MCQs based on the topics covered

10:45 – 11:00 hr. **Tea Break**

Guest Lecture

11:00 – 12:00 hr. Tribology in Mining Industry-Case Studies
Speaker: Mr. Kamal Mukherjee, SECL, Korba

Break

12:00 – 13:30 hr. **Feed back and Concluding Session**

Lunch Break and Closing of the Program