



8th SUMMER SCHOOL IN TRIBOLOGY
Venue: IISc, Bangalore: Duration: 25-29 July, 2016

Programme Schedule
25th July, 2016

Venue: A R Auditorium, Deptt. of Mech. Engg, Indian Institute of Science Bangalore;

INAUGURAL SESSION

- 09:15 – 10:30 hr. Inaugural Session-**
Chief Guest Prof Vikram Jayaram, CH Div of Mech Sciences, IISc
Guest of Honour Prof P. Dutta, CH Mech. Engg Deptt. IISc,
Mr R Suresh, ED (LT) , IndianOil R&D and President TSI ,
Prof SV Kailas , Vice President TSI
Mr Anshuman Dubey, CH TSI Karnataka Chapter
- 10:30 – 11:00 hr. Group Photograph & Hi Tea**
- 11:00 – 12:30 hr. Tech. Session 1**
Theme : Basics of Tribology (F W & L)
Speaker: Prof. Satish V Kailash, IISc, Bangalore
- 12:30 – 13:30 hr. Tech. Session 2**
Theme : Lubricants - Chemistry of Base Oils, Additives and Formulated Lubricants
Speaker: Dr. S K Mazumdar
- 13:30 –14:15 hr. Lunch Break**
- 14:15 – 15:15 hr. Tech. Session 3**
Theme : Basics of Fluid Film Lubrication
Speaker: Prof Satish C Sharma, IIT Roorkee
- 15:15 – 16:15 hr. Tech. Session 4**
Theme: Tribology of Machine Elements
Speaker: Prof Ram Turaga, IISc, Bangalore
- 16:15 – 16:45 hr. Tea Break**
- 16.45-18:00 hr. Guest Lecture 1 on “50 Years of Tribology”**



Speaker: Dr. BVA Rao

26th July, 2016

- 09:00 – 10:15 hr. Tech. Session 5**
Theme : Surface Characterisation in Tribology
Speaker: Prof M S Bobji, IISc, Bangalore
- 10:15 – 11:15 hr. Tech. Session 6**
Theme : Bio Tribology
Speaker: Prof A P Harsha
- 11:15 – 11:45 hr. Tea Break**
- 11:45 – 13:00 hr. The. Session 7**
Theme : Wear Characterization of Materials
Speaker: Prof C S Ramesh, Alliance University
- 13:00 – 13:45 hr. Lunch Break**
- 13:45 – 14:45 hr. Tech. Session 8**
Gear Tribology
Speaker: Mr S R Durugkar, L&T Hydrocarbon Engg.
- 14:45 – 15:45 hr. Tech. Session 9**
Theme: Condition Monitoring through Oil Analysis
Speaker: Mr Deepak Sharma, Kittiwake Proactive Tech. P Ltd.
- 15:45 – 16:15 hr. Tea Break**
- 16:15 - 16:45 Project Work**
Prof. CS Ramesh (Coordinator)
- 16:45-18:00 Visit to Tribology Labs of IISc.**



27th July 2016

- 09:00-10:15 hr. Tech. Session 10**
Theme: Nano Tribology
Speaker: Prof Bobji, IISc Bangalore
- 10:15-11:15 hr. Tech. Session 11**
Theme: Automotive Tribology
Speaker: Dr Reji Mathai, IndianOil, (R&D)
- 11:45 – 13:00 hr. Tech. Session 12**
Theme : Tribology & Rheology of Lubricating Greases
Speaker: Dr. Naveen Pokhriyal, IndianOil (R&D)
- 13:00 – 13:45 hr. Lunch Break**
- 13:45 -14:45 hr. Tech. Session 13**
Theme: Tribo - Testing and Performance Evaluation of Lubricants & Materials
Speaker: Mr Ajay K Harinarian, IndianOil, (R&D)
- 14:45 – 15:45 hr. Tech. Session 14**
Theme: Tribology of Hydraulic Pumps and Compressors
Speaker: Mr R Mahapatra, IndianOil, (R&D)
- 15:45 – 16:15 hr. Tea Break**
- 16:15 – 17:15 hr. Tech. Session 15**
Theme: Tribology of Rolling Element Bearings
Speaker: Dr G Rajaram, NEI Jaipur
- 17:15 -18:30 hr. Tech. Session 16**
Tribology in Mining Industry-Case Studies
Speaker: Mr. Kamal Mukherjee, Former GM, SECL Korba.



28th July 2016

- 09:00 – 10:15 hr. Tech. Session 17**
Theme: Condition Monitoring and Diagnostics
Speaker: Dr Barun Chakrabarti, L&T Hydrocarbon Engg.
- 10:15 – 11:30 hr. Tech. Session 18**
Theme : Role of Corrosion in Tribology
Speaker: Prof. V S Raja, IIT Bombay
- 11:30 – 12:00 hr. Tea Break**
- 12:00 – 13:15 hr. Tech. Session 19**
Theme : Non Destructive Testing in Tribology
Speaker: Mr. Viswanathan V. , L&T Hydrocarbon Engg.
- 13:15 – 14:00 hr. Lunch Break**
- 14:00 -18:00 Industry Visit to DUCOM Instruments**
(Peenya Industrial Area Phase IV, Peenya, Bengaluru)
- 18:00 - 19:30 hr. Guest Lecture 2**
Theme: Space Tribology
Speaker: Prof. N Vedachalam, ISRO , VSSC.



29th July, 2016

- 09:00 – 11:00 hr. Examination with Objective Type MCQs based on the topics covered**
- 11:00 – 11:15 hr. **Tea Break****
- 11:15 – 12:00 hr. **Project Work Review** : Prof. CS Ramesh /Prof. SV Kailas / ED TSI**
- 12:00 – 13:30 hr. Concluding & Feedback Session**
Chief Guest, Mr S Vardhachari , ED KASO, IOC (M) ,
Mr R A Rao, Past President TSI
Prof C S Ramesh , Jt. Secy. TSI
Mr K Mukherjee, Member EC TSI and
ED TSI
- 13:30 – 14:30 hr. **Lunch and Closure of 8th SST****

Looking forward to meet your colleagues at 9th SST.....