

14th SUMMER SCHOOL IN TRIBOLOGY
Venue: IiPM, Gurugram: 14-18 June, 2022

Programme Schedule

14th June, 2022 (Tuesday)

INAUGURAL SESSION

09:30 – 10:15 hrs. Inaugural Session:

Chief Guest Dr SSV Ramakumar, Director-IOC R&D and Past President TSI, Prof Satish V Kailas - President TSI, Mrs. Urvija Bajpai - ED IiPM, Mr. Rajendra Mahapatra , Secretary TSI and Mr Rahul B Meshram , Treasurer TSI

10:15 – 10:30 hrs. Group Photograph & High Tea

10:30 – 11:20 hrs. Technical Session 1

Theme: Basics of Tribology
Speaker: Prof. Satish V Kailas, IISc, Bangalore

11:30-12:20 Hrs. Technical Session 2

Theme: Lubricants - Chemistry of Base Oils, Additives and Formulated Lubricants
Speaker: Dr Kavita Rai, Indian Oil R&D Centre, Faridabad

12:30-13:20 Hrs. Technical Session 3

Theme: Lubrication of Textured Fluid Film Bearing Surfaces and their Tribological Performance.
Speaker: Prof Satish C Sharma, IIT Roorkee

13:20 –14:00 hrs. Lunch Break

14:00-14:50 hrs. Technical Session 4

Theme: Tribology - Testing and Performance Evaluation of Lubricants
Speaker: Mr Ajay K Harinarain, IndianOil, (R&D), Faridabad

15:00-15:45 hrs. Technical Session 5

Theme: Fundamentals of Polymer Tribology
Speaker: Prof Sujeeet Kumar Sinha, IIT Delhi

15:45 – 16:00 hrs. Tea Break

16:00-16:50 Hrs. Guest Lecture 1

Theme: Materials Tribology
Speaker: Prof B Venkataraman, DMRL, Hyderabad

17:00-17:50 Hrs Guest Lecture 2

Theme: Tribology of soft material
Speaker: Dr Kartik Pondicherry, Anton-Paar Hyderabad

15th June, 2022 (Wednesday)

10:00 - 10:50 hrs. Technical Session 6

Theme : Nano Tribology

Speaker: Prof Nityanand Gosvami, IIT Delhi

11:00 - 11:50 hrs. Technical Session 7

Theme: Bio Tribology

Speaker: Prof A P Harsha, IIT BHU, Varanasi

11:50 – 12:00 hrs. Tea Break

12:00 - 12:50 hrs. Technical Session 8

Theme: Wear of Ceramics and Composites

Speaker: Prof B V Manoj Kumar, IIT Roorkee

12:50 – 13:30 hrs. Lunch Break

13:30 - 14:20 hrs. Technical Session 9

Theme: Tribology of Machine Elements

Speaker: Prof Ram Turaga, IISc Bangalore

14:30 – 15:20 hrs. Technical Session 10

Theme: Techniques for Tribocorrosion

Speaker: Dr J Christopher, IndianOil R&D, Faridabad

15:20 – 15:35 hrs. Tea Break

15:35 - 16:25 hrs. Technical Session 11

Theme: Concept of Reliability in Maintenance

Speaker: Dr S Fatima, CART, IIT Delhi

16:35 - 17:25 hrs. Guest Lecture 3

Theme: Trends in Automotive Lubrication with technological changes

Speaker: Mr R Suresh, former ED LT at IOC R&D

16th June, 2022 (Thursday)

10:00 – 10:50 hrs. Technical Session 12

Theme: Tribocorrosion

Speaker: Prof Geetha Manivasagam, VIT, Vellore

11:00 – 11:45 hrs. Technical Session 13

Theme: Surface Characterisation Techniques

Speaker: Prof M S Bobji, IISc Bangalore

11:45 – 12:00 hrs. Tea Break

12:00 – 12:50 hrs. Technical Session 14

Theme : Tribology in Steel Plants: Case Studies

Speaker: Mr P Pathak, SAIL R&D, Ranchi

12:50 – 13:30 hrs. Lunch Break

13:30 – 14:20 hrs. Technical Session 15

Theme: NDT techniques in Tribology

Speaker: Prof Krishnan Balasubramaniam, IIT Madras

14:30 – 15:20 hrs. Technical Session 16

Theme: Tribology & Rheology of Lubricating Greases

Speaker: Dr. Naveen Pokhriyal, IndianOil (R&D)

15:20 – 15:35 hrs. Tea Break

15:35 – 16:25 hrs. Technical Session 17

Theme: Condition Monitoring through Oil Analysis

Speaker: Mr. KNV Subrahmanyam, VAS Tribology, Hyderabad

17th June, 2022(Friday)

10:00-10:50 hrs Technical Session 18

Theme: Engine Tribology

Speaker: Dr Gopakumar Parameswaran, 3M India Ltd, Bangalore

11:00 - 11:45 hrs Technical Session 19

Theme: Sugar Mill Lubrication

Speaker: Dr Tarunendr Singh, (Dr T Singh) BPCL, R&D Mumbai

11:45 – 12:00 hrs. Tea Break

12:00 – 12:50 hrs. Technical Session 20

Theme: Tribology of Hydraulic Pumps and Compressors

Speaker: Mr Anjeeve George, Danfoss Power Sol. India Pvt. Ltd.,
Pune

12:50 – 13:30 hrs. Lunch Break

13:30 – 14:20 hrs. Technical Session 21

Theme: Role of Corrosion in Tribology

Speaker: Mr Q M Amir, IOC R&D Faridabad

14:30 - 15:20 hrs. Technical Session 22

Theme: Surface Topography and Wear of components

Speaker: Prof Mayank Tiwari, IIT Patna

15:20 - 15:35 hrs. Tea Break

15:35 - 16:25 hrs. Technical Session 23

Theme: Condition Monitoring and Diagnostic maintenance

Speaker: Dr Barun Chakrabarti, L&T Hydrocarbon Engg, Mumbai

16: 35 - 17:25 hrs. Guest Lecture 4

Theme: Tribology in Mining

Speaker: Mr Kamal Mukherjee, Former GM Coal India Ltd, Bilaspur

18th June, 2022 (Saturday)

11:00 – 12:00 hrs. Examination with Objective Type MCQs based on the topics covered

12:00 – 12:10 Tea Break

12:10 – 13:00 Concluding & Feedback Session

Chief Guest Mr Ajay Kumar Harinarian, CGM , IOC R&D and Vice President TSI, Mr Kamal Mukherjee, Former GM Coal India Ltd., EC Member TSI , Mr A K Mehta, ED TSI, DGM iIPM. And Mr R Mahapatra, GM Tribology, IOC R&D

13:00 – 14:00 hrs. Lunch and Closure of 14th SST

Looking forward to meet your colleagues at 15th SST.....

Thanking you.....