

13th Summer School in Tribology 31st August 2021 to 4th September 2021

Day/ Date/Time	Tech Session #	Theme	Speaker
Day 1/ 31 August 2021			
0945-1015 hrs	Inaugural Session	Dr SSV Ramakumar, President TSI and Director R&D Indian Oil to inaugurate the 13th Summer school	
1030-1120 Hrs.	TS # 01	Basics of Tribology	Prof. Satish V Kailas, IISc, Bangalore
10 Min break			
1130-1220 Hrs.	TS # 02	Lubricants - Chemistry of Base Oils, Additives and Formulated Lubricants	Dr Kavita Rai, Indian Oil R&D Centre, Faridabad
10 Min break			
1230-1320 Hrs.	TS # 03	Application of Textured Surfaces in Fluid Film bearing Technology	Prof Satish C Sharma, IIT Roorkee
40 Min break for lunch			
1400-1450Hrs.	TS # 19	Tribo - Testing and Performance Evaluation of Lubricants	Mr Ajay K Harinarain, IndianOil, (R&D)
10 Min break			
1500-1550 Hrs.	TS # 05	Fundamentals of Polymer Tribology	Prof Sujeet Kumar Sinha, IIT Delhi
10 Min break			
1600-1650 Hrs.	Guest Lecture 1	Materials Tribology	Prof B Venkataraman, DMRL, Hyderabad
Day: 2nd/ 1st September 2021			
1000-1050 hrs	TS # 06	Nano Tribology	Prof Nityanand Gosvami, IIT Delhi
10 Min break			
1100-1150 hrs	TS # 07	Bio Tribology	Prof A P Harsha, IIT BHU, Varanasi
10 Min break			
1200-1250 hrs	TS # 11	Wear of Ceramics and Composites	Prof B V Manoj Kumar, IIT Roorkee
40 Min break for lunch			
1330-1420 hrs	TS # 08	Tribology of Machine Elements	Prof Ram Turaga, IISc Bangalore
10 Min break			
1430-1520 hrs	TS# 15	Tribology & Rheology of Lubricating Greases	Dr. Naveen Pokhriyal, IndianOil (R&D)
10 Min break			
1535-1625 hrs	TS#22	Concept of Reliability in Maintenance	Dr S Fatima, CART, IIT Delhi
10 Min break			
1635-1725 hrs	Guest Lecture 2	Trends in Automotive Lubrication with technological changes	Mr R Suresh, former ED LT at IOC R&D
Day: 3rd/ 2nd September 2021			
1000-1050 hrs			
10 Min break			
1100-1150 hrs	TS # 04	Surface Topography and Wear of components	Prof Mayank Tiwari, IIT Patna
10 Min break			
1200-1250 hrs	TS #14	Surface Characterisation Techniques	Prof M S Bobji, IISC Bangalore
40 Min Break for lunch			
1330-1420 hrs	TS # 10	NDT techniques in Tribology	Prof Krishnan Balasubramaniam, IIT Madras
10 Min break			
1430-1520 hrs	TS#16	Tribology in Steel Plants: Case Studies	Mr P Pathak, DGM RDCIS, Ranchi

10 Min break			
1535-1625 hrs	Guest Lecture 3	Polymer Brush Lubrication	Prof Nicholas Spencer, ETH Zurich Switzerland
10 Min break			
1635-1725 hrs	TS # 17	Techniques for Tribochemistry	Dr J Christopher, Indian oil R&D, Faridabad
Day: 4th/ 3rd September 2021			
1000-1050 hrs	TS # 18	Engine Tribology	Dr Gopakumar Parameswaran, 3M India
10 Min break			
1100-1150 hrs	TS # 09	Tribocorrosion	Prof Geetha Manivasagam, VIT, Vellore
10 Min break			
1200-1250 hrs	TS # 20	Tribology of Hydraulic Pumps and Compressors	Mr Anjeeve George, Eaton India
40 Min break for lunch			
1330-1420 hrs	TS#21	Sugar Mill Lubrication	Dr Tarunendr Singh, BPCL Mumbai
10 Min break			
1430-1520 hrs	TS # 13	Role of Corrosion in Tribology	Q M Amir, IOC R&D
10 Min break			
1535-1625 hrs	TS # 23	Condition Monitoring through Oil Analysis	Mr. KNV Subrahmanyam
10 Min break			
1635-1725 hrs	Guest Lecture 4	Tribology in Mining	Mr Kamal Mukherjee
5 Min break			
1730-1820	TS # 12	Condition Monitoring and Diagnostic maintenance	Dr Barun Chakrabarti, L&T Hydrocarbon Engg
Day: 5th/ 4th September 2021			
1100-1200 Hrs	Online Exam -50 Multiple choice questions – 1 hour.		using Google forms- Secretary TSI/ ED TSI
10 Min break			
1210-1300 Hrs	Closing Session & Feedback Session -	Dr Barun Chakrabarti, Vice President TSI in the chair	