

12th Summer School in Tribology , 21-25 July 2020, through Webinar Mode- TECHNICAL PROGRAMME

Day/ Date/Time	Tech Session #	Theme	Speaker
Day: 1st/ 21 July 2020			
1345-1415 Hrs.	Inaugural Session	Dr SSV Ramakumar, President TSI and Director R&D Indian Oil to inaugurate the 12th Summer school	
1415-1505 Hrs.	TS # 01	Basics of Tribology	Prof. Satish V Kailas, IISc, Bangalore
10 Min break			
1515-1605 Hrs.	TS # 02	Lubricants - Chemistry of Base Oils, Additives and Formulated Lubricants	Dr. Sarita Garg , Indian Oil R&D , Faridabad
10 Min break			
1615-1705 Hrs.	TS # 03	Basics of Fluid Film Lubrication	Prof Satish C Sharma, IIT Roorkee
10 Min break			
1715-1805Hrs.	TS # 04	Surface Topography and Wear of components	Prof Mayank Tiwari, IIT Patna
10 Min break			
1815-1905 Hrs.	TS # 05	Fundamentals of Polymer Tribology	Prof Sujeet Kumar Sinha, IIT Delhi
10 Min break			
1915-2005 Hrs.	TS # 06	Condition Monitoring through Oil Analysis	Mr Uday Dhir, VAS Tribology Solutions
Day: 2nd/ 22 July 2020			
1400-1450 Hrs.	TS # 07	Nano Tribology	Prof Nityanand Gosvami, IIT Delhi
10 Min break			
1500-1550 Hrs.	TS # 08	Tribology of Machine Elements	Prof Ram Turaga, IISc Bangalore
10 Min break			
1600-1650 Hrs.	TS # 09	Bio Tribology	Prof A P Harsha, IIT BHU, Varanasi
10 Min break			
1700-1750 Hrs.	TS # 10	NDT techniques in Tribology	Prof Krishnan Balasubramaniam, IIT Madras
10 Min break			
1800-1850 Hrs.	TS # 11	Wear of Ceramics and Composites	Prof B V Manoj Kumar, IIT Roorkee
10 Min break			
1900-1950 Hrs	Guest Lecture 1	Materials Tribology	Prof B Venkataramanan, DMRL, Hyderabad
Day: 3rd/ 23 July 2020			
1400-1450 Hrs.	Guest Lecture 2	Tribology in Mining	Mr Kamal Mukherjee, formerly South Eastern Coalfields Limited
10 Min break			
1500-1550 Hrs.	TS # 12	Role of Corrosion in Tribology	Dr C Kannan, IndianOil (R&D)
10 Min break			
1600-1650 Hrs.	TS # 13	Tribology & Rheology of Lubricating Greases	Dr. Naveen Pokhriyal, IndianOil (R&D)
10 Min break			
1700-1750 Hrs.	TS # 14	Tribology in Steel Plants: Case Studies	Mr P Pathak, GM SAIL RDCIS, Ranchi
10 Min break			
1800-1850 Hrs.	TS # 15	Techniques for Tribochemistry	Dr J Christopher, Indian oil R&D, Faridabad
10 Min break			
1900-1950 Hrs	Guest Lecture 3	Trends in Automotive Lubrication with technological changes	Mr R Suresh, formerly Executive Director Indian Oil R&D
Day: 4th/ 24 July 2020			
1400-1450 Hrs.	TS # 16	Automotive Tribology	Dr Reji Mathai, IndianOil, (R&D)
10 Min break			
1500-1550 Hrs.	TS # 17	Tribo - Testing and Performance Evaluation of Lubricants	Mr Ajay K Harinarain, IndianOil, (R&D)
10 Min break			
1600-1650 Hrs.	TS # 18	Tribology of Hydraulic Pumps and Compressors	Mr Anjeeve George, Eaton India, Pune
10 Min break			
1700-1750 Hrs.	TS # 19	Tribology of Rolling Element Bearings	Dr Sathwik Chatra SKF Netherlands
10 Min break			
1800-1850 Hrs.	TS # 20	Condition Monitoring and Diagnostic maintenance	Dr Barun Chakrabarti, L&T Hydrocarbon Engg
10 Min break			
1900-1950 Hrs	Guest Lecture 4	Tribology in Electrical environments – Bearing Performance evaluation and case studies	Dr Har Prashad, formerly BHEL R&D Hyderabad
Day: 5th/ 25 July 2020			
1300-1350 Hrs.	Guest Lecture 5	Lubrication requirements for Electric Vehicles	Mr Philip Reeve, ADLU Consultancy, UK
10 Min break			
1400-1450 Hrs	Guest Lecture 6	Overview of the Base Oil Industry and the challenges and choices it brings for lubricant formulators.	Mr Gerard Heaton, Saudi Aramco Luberef
10 Min break			
1500-1550	Guest Lecture 7	Sugar Mill Tribology	Dr T Singh, Bharat Petroleum Corporation Ltd, Mumbai
20 Min break			
1610-1710 Hrs	Online Exam -50 Multiple choice questions – 1 hour.		
1710-1740 Hrs	Closing Session & Feedback Session -	Dr Barun Chakrabarti, Vice President TSI in the chair	