

TRIBOLOGY: FRICTION, WEAR, AND LUBRICATION

A SUMMER PROFESSIONAL PROGRAM | JUNE 12–16, 2023

Note: All times are US Eastern Daylight Time. Schedule is subject to change.

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
8:30–9:30 AM	1. Preliminaries and Course Overview (NS)	7. Sliding Friction: Laws and Theories (NS)	13. Wear of Polymers (NR)	19. Liquid and Solid Lubricants (SJ)	25. Biotribology (SJ)
9:30–10:00 AM	COFFEE BREAK				
10:00–11:00 AM	2. Tribology: A Historical Perspective (NPS)	8. Sliding Wear (SJ)	14. Wear of Coatings (NR)	20. Boundary and Thin Film Lubrication (SJ)	26. Nanotribology (NR)
11:00 AM–12:00 PM	3. Axiomatic Design of Tribological Systems (NPS)	9. Abrasive and Erosive Wear (SJ)	15. Surface Temperature (NS)	21. Fluid film Lubrication (SJ)	27. Discussion of Tribological Systems Design (All)
12:00–1:30 PM	LUNCH BREAK				12:30 PM - Farewell Lunch
1:30–2:30 PM	4. Surface Topography and Surface Properties (NS)	10. Wear of Ceramics and Brittle Materials (SJ)	16. Wear-Mechanism Maps (NS)	22. Case Studies V: Lubrication (SJ)	Course Presenters: (NPS) Prof. Nam P. Suh (NS) Dr. Nannaji Saka (SJ) Dr. Said Jahanmir (NR) Dr. Nicholas X. Randall (VW) Dr. Vern Wedeven
2:30–3:30 PM	5. Tribological Testing I: Theory (NR)	11. Case Studies I: Friction (SJ)	17. Case Studies III: Wear of Polymers (NR)	23. EHD Lubrication: Gears and Rolling Element Bearings (VW)	
3:30–4:00 PM	COFFEE BREAK				
4:00–5:00 PM	6. Tribological Testing II: Demonstrations (NR)	12. Case Studies II: Wear (SJ)	18. Case Studies IV: Wear of Coatings (NR)	24. Tribology by Design (VW)	
5:30 PM - Welcome Reception			6:30 PM - Program Dinner		
					03/03/2023