



# TRIBOLOGY: FRICTION, WEAR, AND LUBRICATION

A SUMMER PROFESSIONAL PROGRAM | 21–25 JUNE 2021

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

	MONDAY (6/21)	TUESDAY (6/22)	WEDNESDAY (6/23)	THURSDAY (6/24)	FRIDAY (6/25)
10:00–11:00 AM	1. Course Overview (NS)	6. Tribological Testing I: Theory (NR)	11. Wear of Polymers (NR)	16. Fluid Film Lubrication (SJ)	21. Basic Strategies (NPS)
11:00–NOON	2. Introduction to Tribology (NPS)	7. Tribological Testing II: Virtual (NR)	12. Wear of Coatings (NR)	17. EHD Lubrication (VW)	22. Friction and Wear (SJ)
12:00–1:00 PM	3. Surface Topography & Properties (NS)	8. Abrasive and Erosive Wear (SJ)	13. Wear-Mechanism Maps (NS)	18. Nanotribology (NR)	23. Boundary and Hydrodynamic Lubrication (SJ)
1:00–2:00	BREAK				
2:00–3:00	4. Sliding Friction: Mechanisms & Models (NS)	9. Wear of Ceramics and Brittle Materials (SJ)	14. Liquid and Solid Lubricants (SJ)	19. BioTribology (SJ)	24. EHD Lubrication: Gears and Rolling Element Bearings (VW)
3:00–4:00	5. Sliding Wear (SJ)	10. Surface Temperature (NS)	15. Boundary and Thin Film Lubrication (SJ)	20. Prospect on Tribology: A Historical Perspective (NPS)	25. Tribology-by-Design (VW)
4:00–5:00		Virtual Social Hour Students and Faculty		Virtual Social Hour Students and Faculty	