

Adhesion Science and Technology SHORT COURSE



FEBRUARY 18-19, 2022

San Diego Mission Bay Resort • San Diego, California

PROGRAM SCHEDULE

Friday, February 18

7:30 AM - 8:00 AM	CONTINENTAL BREAKFAST
8:00 AM - 8:10 AM	Welcome and Introduction <i>David Yarusso, Yarusso Consulting</i>
8:10 AM - 9:10 AM	Stresses, Strength, and Failure of Adhesive Joints <i>David Dillard, Virginia Tech</i>
9:10 AM - 10:10 AM	Viscoelastic Properties of Adhesive Materials <i>David Yarusso, Yarusso Consulting</i>
10:10 AM - 10:20 AM	BREAK
10:20 AM - 11:20 AM	Designing Adhesives Using the Polymer Parameters <i>Michael Bortner, Virginia Tech</i>
11:20 AM - 12:20 PM	Chemistry of Adhesion <i>Giles Dillingham, BTG Labs LLC</i>
12:20 AM - 1:00 PM	LUNCH
1:00 PM - 2:00 PM	Structure-Property Relationships of Adhesives <i>Michael Bortner, Virginia Tech</i>
2:00 PM - 3:00 PM	Types and Classes of Adhesives and their Chemistry <i>Keren Zhang, Facebook</i>
3:00 PM - 3:10 PM	BREAK
3:10 PM - 4:10 PM	Fracture Mechanics Applications to Adhesive Bonds <i>David Dillard, Virginia Tech</i>

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Saturday, February 19

7:30 AM - 8:00 AM	CONTINENTAL BREAKFAST
8:00 AM - 9:00 AM	Surface Treatment for Adhesion <i>Giles Dillingham, BTG Labs LLC</i>
9:00 AM - 10:00 AM	Soft Matter Adhesion <i>Costantino Creton, ESPCI Paris – Paris</i>
10:00 AM - 10:10 AM	BREAK
10:10 AM - 11:10 AM	Introduction to Pressure Sensitive Adhesives <i>David Yarusso, Yarusso Consulting</i>
11:10 AM - 12:10 PM	Adhesion at the Micro/Nano-Scale: Characterization and Applications <i>Kevin Turner, University of Pennsylvania</i>
12:10 AM - 12:50 PM	LUNCH
12:50 PM - 1:50 PM	An Overview of Toughening Strategies for Structural Adhesives <i>Raymond Pearson, Lehigh University</i>
1:50 PM - 2:50 PM	Overview of Adhesion Testing <i>Michelle Seitz, DSM</i>
2:50 PM - 3:00 PM	BREAK
3:00 PM - 3:30 PM	Question and Answer <i>All Instructors</i>
3:30 PM - 3:45 PM	Complete Evaluation Form, receive certificates