

# 2021 Virtual Summer Symposium

## August 3, 2021

*Symposium is being Recorded and will be posted on CCM Website*

**REGISTER:** <https://udel.zoom.us/meeting/register/tJctdOyhqzMjGtC0qr6mptnUBFyt8HpQWDqP>

<b>9:00 am</b>	<b>Welcome and Introductions – Prof. Suresh Advani</b> <i>Associate Director, Center for Composite Materials</i>
<b>9:10 am</b>	<b>Session 1- Chair, Prof. Suresh Advani</b>
<b>Henry Fidlow</b> <i>Univ. of Delaware</i>	<i>Extensional Viscosity of Highly Aligned Discontinuous Fiber ‘TuFF’ Composites in Stretch Forming Processes</i>
<b>Neel Kher</b> <i>Univ. of Delaware</i>	<i>Closed Loop Recycling of CFRP into Highly Aligned. High Performance Short Fiber Composites Using the TuFF Process: Fiber Recovery Through Pyrolysis</i>
<b>Nicolas Sobocinski</b> <i>Univ. of Delaware</i>	<i>Automation in Composite Research</i>
<b>Kayla Borrero</b> <i>Univ. of Delaware</i>	<i>Throughput Optimization of the Tailorable universal Feedstock for Forming (TuFF)</i>
<b>Alexandra McWatters</b> <i>Newark Charter H.S.</i>	<i>The Process of Measuring and Interpreting Areal Weight</i>
<b>James Tallman</b> <i>Cornell Univ.</i>	<i>Evaluation of Surface Wettability of Thin Silane Coated Glass Fibers</i>
<b>Austin Barry</b> <i>Lafayette College</i>	<i>Manufacturing of a Custom Carbon Fiber Ankle-Foot Orthoses (AFO)</i>
<b>Kenneth Olsen</b> <i>Univ. of Delaware</i>	<i>Toward Using Recycled Thermoset Plastic Material for Roadway Surface Overlays</i>
<b>Daniel Thiemann</b> <i>Univ. of Alabama</i>	<i>Stabilizing TuFF by Electrospinning Ultra Low Areal Weight Binder Veil</i>
<b>Alexander Schneider</b> <i>Univ. of Delaware</i>	<i>Influence of Environmental Conditioning on Epoxy Resin Properties at High Strain Rates</i>
<b>Thomas Kaifer</b> <i>Univ. of Delaware</i>	<i>Impact and Leak Rate Testing of Composites for Space Suite Structures</i>
<b>9:35 am</b>	<b>Breakout Room for Poster Discussions and Poster Evaluations (25 Mins)</b>
<b>9:55 am</b>	<b>Google Form Voting for Session 1- link will be provided in Zoom chat</b>

<b>10:05 am</b>	<b>Session 2 – Chair, Dr. Sanjib Chowdhury</b>
<b>Christopher Alevrontas</b> <i>Univ. of Delaware</i>	<i>Studying the Structure-Property Relationships of Glass Systems Using Molecular Dynamics Simulations</i>
<b>Timothy Longoria</b> <i>Univ. of Delaware</i>	<i>Atomic Level Stress Analysis in Glass Fibers</i>
<b>Paul Zaloga, Jr.</b> <i>Univ. of Delaware</i>	<i>Atomistic Analysis of Composite Interphase and Polyethylene Fibers</i>
<b>Edwin Rivera</b> <i>Univ. of Delaware</i>	<i>Innovative Textile-Based Functional Nanocomposites for Finger Motion Recognition</i>
<b>Eli Bogetti</b> <i>Univ. of Delaware</i>	<i>Stochastic Continuum Damage Modeling of Composites and Data Processing</i>
<b>Andrew Stack</b> <i>Univ. of Delaware</i>	<i>Automation</i>

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Session 2 Continued	
<b>Eric Kang</b> Univ. of Delaware	<i>Investigation of Strength and Surface Morphology of UHMW PE Fibers Extracted from Fatigued Panels</i>
<b>Byron Kasper</b> Univ. of Delaware	<i>Mechanical Characterization of Adhesives Used in Transparent Armor Using Compression Lap Shear</i>
<b>Kyle Morris</b> Univ. of Delaware	<i>Investigating the Effects of Extreme Environmental Conditions on Peel Strength of Composite Armor with Interlayers</i>
<b>Dylan Huang</b> Univ. of Delaware	<i>Tracking Glass Fiber Integrity Through a Novel Vapor-Based Silane Deposition</i>
<b>Joshua Yu</b> Univ. of Delaware	<i>Surface Morphology of S-2 Glass Fibers with Vapor Deposited Silanes</i>
<b>10:35 am</b>	<b>Breakout Room for Poster Discussions and Poster Evaluations (25 Mins)</b>
<b>11:05 am</b>	<b>Google Form Voting for Session 2 – link will be provided in Zoom chat</b>

11:15 am Session 3 – Chair, Dr. Joe Deitzel	
<b>Alison Hecht</b> Louisiana State Univ.	<i>GUMBOS as Fluorescent Probes in Shape Memory/Self-Healing Polymers</i>
<b>Raelyn Henderson</b> Southern Univ.	<i>The Effects of Combining Bacteria Strain with Glass Fiber for Self-Healing Concrete</i>
<b>Michael Falodun</b> Southern Univ.	<i>Mechanical Analysis of a Porous Nylon Polymer Using the Finite Element Method</i>
<b>Chase Robinson</b> Southern Univ.	<i>Evaluation of a UV Curable 3D Printing Resin with Carbon Nanotubes</i>
<b>Chelbye Turner</b> Louisiana State Univ.	<i>Evaluation of Self-Healing Properties of Surlyn and PEVA Composites</i>
<b>Hoa Nguyen</b> Louisiana State Univ.	<i>Development of 3D Printable Smart Polymer Concrete</i>
<b>John Konlan</b> Louisiana State Univ.	<i>Sinusoidal SMA Z-Pinned Laminated Vitrimer Composite for Impact Mitigation and Delamination Self-Healing</i>
<b>Lorrha Hitchner</b> Univ. of Delaware	<i>Developing a Framework for Estimating the Material Operating Limit of Epoxy Resins</i>
<b>Evan Battaglia</b> Univ. of Delaware	<i>Additive Manufacturing of Grenade Launched Aerial Sensor Platform</i>
<b>Cameron Pepi</b> Southern Utah Univ.	<i>Material Characterization of Coldspray 3-D Printed Copper Parts</i>
<b>Jake Robinson</b> Univ. of Delaware	
<b>11:40 am</b>	<b>Breakout Room for Poster Discussions and Poster Evaluations (25 Mins)</b>
<b>12:10 pm</b>	<b>Google Form Voting for Session 3 – link will be provided in Zoom chat</b>
<b>12:20 pm</b>	<b>SAMPE Announcement – Prof. Erik Thostenson, Group Zoom Photo and Vote Tabulations</b>
<b>12:45 pm</b>	<b>Award Announcements and Photos – Prof. Suresh Advani</b>