



TENNESSEE ADVANCED MATERIALS SUMMIT

## [REGISTER TODAY!](#)

<b>Day 1: July 22, 2025</b>			
<b>Time</b>	<b>Session</b>	<b>Details</b>	<b>Location</b>
8:00 AM – 8:45 AM	Registration	Check in at the registration desk	SU Room 272
8:45 AM – 9:15 AM	Opening Remarks	<b>Welcome Address</b> Alan Tennant (UTK-MRSEC Director)	SU Room 272
9:15 AM – 10:15 AM	Plenary Session	<b>Quantum Matter with AI</b> Roger Melko (University of Waterloo and Perimeter Institute)  Session Chair: Adrian Del Maestro (IRG 1)	SU Room 272
10:15 AM – 10:30 AM	Break	Refreshments available	
10:30 AM – 12:00 PM	Technical Session 1A	<b>Hypersonic and Aerospace Material Frontiers</b> Ryan Fahsbender (Advanced Materials, Manufacturing, and Processes, Sierra Space) Daniel Oropeza (Materials Department, UCSB) Nathaniel Olson (Thermal Design Branch, NASA)  Session Chair: Dustin Gilmer & Dalton Pearl (IRG 2)	SU Room 262AB
10:30 AM – 12:00 PM	Technical Session 1B	<b>Advances in Fractional Quantum Hall Effect</b> Angkun Wu (UTK Physics & Astronomy) Yiping Wang (Columbia University) <b>Ultrafast Photocurrents in Topological Insulators and Semimetals</b> Nicholas Sirica (Naval Research Laboratory)  Session Chair: Yishu Wang & Yang Zhang (IRG 1)	SU Room 262C
12:00 PM- 12:15 PM	Group Photo	All attendees convene for a group photo	SU Stairs

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# TEAMS

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12:15 PM – 1:15 PM	Lunch & SEED Program Panel	<p><b><i>SEED Matchmaking &amp; Future IRG Panel - Strategic Planning</i></b>            Alan Tennant, Adrian Del Maestro, Kate Page, &amp; Claudia Rawn (UTK-MRSEC Leadership)            Martin Mourigal (GA Tech; IRG 1 '24-'25 Seed Recipient)            Dustin Gilmer (UTSI; IRG 2 '24-'25 Seed Recipient)</p> <p>Moderator: Amber White  <a href="#">Submit your questions to the panelists here</a></p>	SU Room 272
1:15 PM – 2:15 PM	Industry Engagement Session	<p><b><i>Lightning Talks &amp; Panel Discussion</i></b>            Ryan Fahsbender (Sierra Space)            Jarrod McClean (Google)            Dan Ruscitto (GE Aerospace)</p> <p>Moderator: Sydney Copp (IRG 2)  <a href="#">Submit your questions to the panelists here</a></p>	SU Room 272
2:15 PM – 3:15 PM	Cross-Center Collaboration Talk	<p><b><i>Enabling Scientific Discovery: Harnessing the Power of the National Science Data Fabric for Large-Scale Data Analysis</i></b>            Jack Marquez (University of Tennessee, Knoxville)</p> <p>Session Chair: Adrian Del Maestro</p>	SU Room 272
3:15 PM - 3:30 PM	SOTY Award	Presentation of Student of the Year & ECOR Awards	SU Room 272
3:30 PM – 5:00 PM	Poster Session & Networking	UTK-MRSEC Graduates, Postdocs, and REU Student Research Posters & Networking Reception	SU Room 272

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## Day 2: July 23, 2025

Time	Session	Details	Location
9:00 AM – 10:00 AM	Plenary Session	<b>Future Directions in Advanced Manufacturing</b> Erica Corral (University of Arizona)  Session Chair: Dustin Gilmer (IRG 2)	SU Room 272
10:00 AM – 10:15 AM	Break	Refreshments available	
10:15 AM – 12:00 PM	Workshop 1	<b>Extreme Material Characterization Techniques</b> Dante Quirinale (ORNL) Klaus Dieter-Liss (UTK-MRSEC, UT-ORII)  Session Chair: Josh Norton (IRG 2)	SU Room 262C
10:15 AM – 12:00 PM	Workshop 2	<b>Sunny.jl Tutorial</b> David Dahlbom (ORNL)  <b>QMC for Spin Systems</b> Jon Demidio (UTK Physics & Astronomy)  Session Chair: Angkun Wu (IRG 1)	SU Room 262AB
12:00 PM – 1:15 PM	Lunch & Career Panel	<b>Career Panelists</b> <b>Academia</b> Yishu Wang (UTK-MRSEC IRG 1) Dustin Gilmer (UTK-MRSEC IRG 2) <b>Industry</b> Sreya Paladugu (GE Aerospace) <b>National Labs</b> Nicholas Sirica (LANL, NRL) Dante Quirinale (ORNL) Nathaniel Olson (Thermal Design Branch, NASA)  Moderator: Ankita Bebarta (IRG 2) <a href="#">Submit your questions to the panelists here</a>	SU Room 272
1:15 PM – 2:00 PM	Closing Keynote	<b>The Future of Materials Research in Tennessee</b> Steve Zinkle (UTK-MRSEC IRG 2 Lead)  Session Chair: Harry Weaver (IRG 2)	SU Room 272

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