



# SUMMER 2018 MEMBERS MEETING

July 24-26 | Hilton Knoxville - 501 W Church Ave, Knoxville, TN 37902

## AGENDA

<i>*All times listed in EST</i>		TUESDAY, JULY 24
All day	<b>Pre-Scheduled Project Meetings</b> Email <a href="mailto:jhill@iacmi.org">jhill@iacmi.org</a> for more details and to schedule a meeting.	<b>Hilton Knoxville</b>
8:30am-1:00pm	<b>Intern Workshop</b> <i>*interns only</i>	<b>Hilton Knoxville</b> Sequoyah 3
9:00am-4:00pm	<b>Board of Directors Meeting</b> <i>*invite only</i>	<b>JIAM</b> 2641 Osprey Vista Way, Knoxville, TN 37996
12:30pm – 5:00pm	<b>Facility Tours: Local Motors, ORNL’s Manufacturing Demonstration Facility (MDF), and ORNL’s Carbon Fiber Technology Facility (CFTF)</b>  <i>You must be pre-registered to attend tours at the MDF and CFTF. The deadline to register is July 19, 2018.</i>  <b>Schedule:</b> <ul style="list-style-type: none"> <li>• <b>12:00pm</b> shuttle departs from Hilton to Local Motors</li> <li>• <b>12:30pm-1:30pm</b> Tour Local Motors</li> <li>• <b>1:30pm-1:45pm</b> Travel to MDF</li> <li>• <b>1:45pm-2:00pm</b> Badging and separate into tour groups</li> <li>• <b>2:00pm-3:00pm</b> Tour MDF</li> <li>• <b>3:00-3:30pm</b> Travel to CFTF</li> <li>• <b>3:30pm-4:30pm</b> Tour CFTF</li> <li>• <b>4:30pm-5:15pm</b> Travel back to Hilton</li> </ul>	<b>Local Motors</b> 2030, Valley Vista Rd, Knoxville, TN 37932  <b>MDF</b> 2370 Cherahala Blvd, NTRC-2, Knoxville, TN 37932  <b>CFTF</b> 93 Palladium Way Oak Ridge, TN 37830
6:00pm-9:00pm	<b>Special Event by Invite Only</b>	<b>JIAM</b> 2641 Osprey Vista Way, Knoxville, TN 37996

# AGENDA

WEDNESDAY, JULY 25		
8:00am-12:00pm	<b>Pre-Scheduled Project Meetings</b> Email <a href="mailto:jhill@iacmi.org">jhill@iacmi.org</a> for more details and to schedule a meeting.	Hilton Knoxville
10:00am-11:30pm	<b>Workforce Advisory Board Meeting</b> <i>*invite only</i>	Hilton Knoxville Ocoee
10:00am	<b>Registration and Exhibits Open</b>	Hilton Knoxville
11:30am-12:00pm	<b>New Member Orientation</b> Jarrod Blue, Hannah Jay, Lisa Fitzpatrick (IACMI)	Hilton Knoxville Sequoyah 3
12:00pm-1:00pm	<b>Lunch Available</b>	Hilton Knoxville
12:30pm-1:15pm	<b>Conference Welcome and IACMI Progress Review</b> Rob Ivester (DOE), John Hopkins, Dale Brosius, Robin Pate, Uday Vaidya (IACMI) <i>Welcome, Road to Commercialization, Facilities Updates, Workforce Highlights, Roadmapping Background</i>	Hilton Knoxville Ballroom
1:15pm-2:15pm	<b>Roadmapping Workshop</b> Open to all attendees <i>IACMI is currently in the fourth phase of a technology roadmapping process aimed at accelerating the development and adoption of low-cost, energy-efficient manufacturing technologies. This workshop will focus on future goals, technical targets, technology areas, and projects as it relates to the roadmap.</i>	Hilton Knoxville Ballroom
2:15pm-2:30pm	<b>Break and Exhibits</b>	Hilton Knoxville
2:30pm-4:30pm	<b>Enabling High Volume Manufacturing of Lightweight Automotive Components</b> Presented by the Ford and Dow project teams and IACMI partners <i>This session will review project objectives from an industry perspective and technical gaps in a real business case. Topics include simulations of impregnation, molding, bonding, performance and crash testing, routes to characterization, and control of surfaces and interfaces.</i>	Hilton Knoxville Ballroom
4:30pm-5:15pm	<b>Highlighting Small and Medium Sized Enterprise (SME) IACMI Members</b> Moderated by Dale Brosius Peter Riedle, Berndorf; Daniel Allman, Globe Machine; Christopher Anderson, ZSK Machines; James Earle, Diversified Machine Systems; Gary Latham, Pratt & Miller; Jay Holmes, GreenTex	Hilton Knoxville Ballroom
5:15pm	<b>Conference Adjourn</b>	Hilton Knoxville Ballroom
6:00pm-9:00pm	<b>Networking Reception</b> Join us for a networking reception at the University of Tennessee, Knoxville Neyland Stadium West Club. Shuttles are provided, and parking is reserved in staff lot 9 and G10 parking garage. Enter at gate 15. <b>Shuttle Schedule:</b> <ul style="list-style-type: none"> <li>Shuttles will depart from the Hilton at the following times: 5:30pm, 5:45pm, 6:00pm, 6:15pm</li> <li>Shuttles will return to the Hilton at the following times: 8:15pm, 8:30pm, 8:45pm, 9:00pm</li> </ul>	<b>Neyland Stadium West Club</b> 600 Phillip Fulmer Way, Knoxville, TN 37916

# AGENDA

## THURSDAY, JULY 26

7:30am-8:30am	<p><b>Partners for Success Networking Breakfast</b></p> <p><i>Join us for a networking breakfast to meet new members, speak with engaged IACMI members, get to know IACMI interns and learn about hosting, and plan participation in workforce events throughout the year.</i></p>	<p><b>Roadmapping Breakfast</b></p> <p><i>*invite only</i></p> <p>Roadmapping focus group will meet and discuss outcomes from the day one workshop</p>	<p><b>Hilton Knoxville Ballroom</b></p> <p><b>Hiwasse (1<sup>st</sup> floor)</b></p>
8:30am-9:00am	<p><b>Conference Welcome</b></p> <p>Knoxville Mayor Madeline Rogero; Knox County Mayor Tim Burchett; University of Tennessee Interim Chancellor Wayne Davis</p>		<p><b>Hilton Knoxville Ballroom</b></p>
9:00am-10:00am	<p><b>Shift Transformation: Disrupting Reality as We Know It</b></p> <p>David Houle, Futurist, Thinker, Speaker</p> <p><i>There will be more change in the next 20 years than in any 50-year period in history. This high-level presentation will look at the trends and dynamics that will trigger this disruption and transformative time. A look into the future of technology, energy, transportation, demographics, AI and Machine Learning, Climate Change and how all will trigger unprecedented change by 2037. Reality as we know it will change. A truly thought-provoking presentation to prepare you and the composites industry for the future.</i></p>		<p><b>Hilton Knoxville Ballroom</b></p>
10:00am-10:30am	<p><b>Break and Exhibits</b></p>		<p><b>Hilton Knoxville</b></p>
10:30am-11:00am	<p><b>New Market Opportunities and Trends</b></p> <p>Led by Jeff Sloan, Composites World; Jeff Thompson, Mafic; Ed Valigursky, Luna Innovations; Mike Siwajek, Continental Structural Plastics; Ed Pilpel, PolyOne</p>		<p><b>Hilton Knoxville Ballroom</b></p>
11:00am-11:15am	<p><b>IACMI Internship Program: Year 3</b></p> <p>Joannie Harmon Heath (IACMI)</p>		<p><b>Hilton Knoxville Ballroom</b></p>
11:15am-12:00pm	<p><b>Working with Textile Carbon Fibers</b></p> <p>Led by Merlin Theodore, ORNL; Mahmood Haq, Michigan State University; Kevin Ahlstrom, McCoy Machinery; Tom Drye, Techmer PM; Jesse Hartzel, Chomarat; Doug Bradley, Michigan State University; Martin Laudenbach, Montefibre; Cliff Eberle, IACMI</p>	<p><b>3ds Software in Academic Programs</b></p> <p>Florent Salako, Dassault Systèmes; Mike Bogdanor, Purdue University; Uday Vaidya, IACMI</p> <p><i>Learn more about the 3ds university friendly software and how it has been successfully integrated into coursework at the University of Tennessee, Knoxville.</i></p>	<p><b>Hilton Knoxville Ballroom</b></p> <p><b>Sequoyah 3</b></p>
12:00pm-1:00pm	<p><b>Lunch, Exhibits &amp; Intern Poster Session</b></p>		<p><b>Hilton Knoxville</b></p>
12:00pm-1:00pm	<p><b>Technical Advisory Board Meeting</b> <i>*invite only</i></p>		<p><b>Hilton Knoxville Smoky B &amp; C</b></p>

# AGENDA

1:00pm-2:15pm	<p><b>Sustainability Track</b>            Led by Soydan Ozcan, ORNL</p> <ol style="list-style-type: none"> <li>1. <i>Controlled Pyrolysis: A robust, scalable composite recycling technology</i>                Presented by Dan Coughlin, ACMA</li> <li>2. <i>Carbon fiber pre-preg recycling - automated preform manufacturing equipment</i>                Presented by Geoffery Wood, CRTC</li> <li>3. <i>Bamboo Bio-composite Truck/Trailer Decking</i>                Presented by Lee Slaven, Resource Fiber</li> </ol>	<p><b>Tooling Track</b>            Led by Uday Vaidya, IACMI</p> <ol style="list-style-type: none"> <li>1. <i>Hybrid Additively Manufactured Tooling for Large Composite Structures</i>                Presented by Austin Schmidt, Airbus</li> <li>2. <i>Multiple Process Tooling</i>                Presented by Mark Robinson, Valley Gemini</li> </ol>	<p><b>Hilton Knoxville</b>  <b>Ballroom</b>  <b>Sequoyah 3</b></p>
2:15pm-2:45pm	<p><b>Break &amp; Exhibits</b></p>		<p><b>Hilton Knoxville</b></p>
2:45pm-4:00pm	<p><b>Materials Track</b>            Led by Cliff Eberle, IACMI</p> <ol style="list-style-type: none"> <li>1. <i>Scale-Up of Next Generation Nano-Enhanced Composite Materials for Longer Lasting Consumer Goods</i>                Presented by Paul Jarosz and Mackenzie Devoe, N12 Technologies</li> <li>2. <i>Low Cost, High Volume, Carbon Fiber Precursor for Plasma Oxidation</i>                Presented by David Martin and Joshua Nowak, RMX Technologies</li> </ol>	<p><b>Prototyping Track</b>            Led by John Unser, IACMI</p> <ol style="list-style-type: none"> <li>1. <i>Thermoplastic Composite Compressed Gas Storage (CGS) Tanks</i>                Presented by Lee Silverman, DuPont</li> <li>2. <i>High Speed Layup and Forming of Automotive Composite Components</i>                Presented by Indraneel Page, Dura</li> <li>3. <i>Thermoplastic-Matrix Wind Turbine Blade</i>                Presented by Dana Swan, Arkema</li> </ol>	<p><b>Hilton Knoxville</b>  <b>Ballroom</b>  <b>Sequoyah 3</b></p>
4:00pm-4:15pm	<p><b>Break &amp; Exhibits</b></p>		<p><b>Intern Panel</b>  <i>*interns only</i></p>
4:15pm-4:45pm	<p><b>Outcomes from the Roadmapping Workshop and Progression Briefing of the Low-Cost Carbon Fiber Database</b>            Uday Vaidya, IACMI</p>	<p><b>Growing the Composites Ecosystem in TN</b>            Chassen Haynes, TEDC; Doug Lawyer, Knoxville Chamber; Roxann Fry, TVA</p>	<p>Led by Joannie Harmon Heath and Emily King Kinsey, IACMI; Jan Sawgle, DuPont; Alice Havill, Vartega; Dana Swan, Arkema; Peter Hedger, MVP</p> <p><b>Hilton Knoxville</b>  <b>Ballroom</b>  <b>Sequoyah 3</b>  <b>Hiwasse</b></p>
4:45pm-5:00pm	<p><b>Closing Remarks, Progress Toward Institute Goals</b>            John Hopkins, IACMI</p>		<p><b>Hilton Knoxville</b>  <b>Ballroom</b></p>

# AGENDA

## FRIDAY, JULY 27

8:30am-12:30pm	<b>Facility Tours of UTK's Fibers and Composites Manufacturing Facility, UTK's Science and Engineering Research Facility, and Cherokee Farm Innovation Campus</b>  <b>Schedule:</b> <b>8:15am</b> Shuttle Departs Hilton for FCMF <b>8:30am-9:30am</b> Tour FCMF (1 hr) <b>9:30am-9:45am</b> Travel to SERF <b>9:45am-10:30am</b> Tour SERF (45 min) <b>10:30am-11:00am</b> Travel to Cherokee Farm <b>11:00am-11:45am</b> Tour JIAM (45 min) <b>11:45am-12:15pm</b> Tour Cherokee Farm North Building (30 min) <b>12:30pm</b> Shuttle to Hilton	<b>FCMF</b> 1321 White Ave, Knoxville, TN 37916  <b>SERF</b> Circle Dr, Knoxville, TN 37916  <b>Cherokee Farm</b> 2641 Osprey Vista Way, Knoxville, TN 37996
All day	<b>Pre-Scheduled Project Meetings</b> Email <a href="mailto:jhill@iacmi.org">jhill@iacmi.org</a> for more details and to schedule a meeting.	<b>Hilton Knoxville</b>

Questions? Email [events@iacmi.org](mailto:events@iacmi.org) or visit [iacmi.org/summer-2018-members-meeting](http://iacmi.org/summer-2018-members-meeting).