



THERMOSET TOPCON

Madison, Wisconsin • April 30-May 1, 2024

Presented by SPE Thermojet Division

THERMOSETS: REINFORCING INDUSTRY

TUESDAY, APRIL 30

SCHEDULE SUBJECT TO CHANGE

ALL TIMES CT
(Central Time)

7:00-8:00	NETWORKING BREAKFAST <i>Sponsored by</i>	 IDI Composites International <small>idicomposites.com</small>	& EXHIBITS
8:10-8:20	OPENING OF THE 2024 TOPCON SHOW: Len Nunnery, <i>Board Member TOPCON - Plenco</i>		
8:20-8:30	WELCOME TO TOPCON : Sean Campbell, <i>Chair TOPCON - LyondellBasell</i>		
	DAY 1 AM MODERATOR: Sean Campbell, <i>Chair TOPCON - LyondellBasell</i>		
8:30-9:15	KEYNOTE ADDRESS:	EMPOWERING WOMEN IN COMPOSITES: BUILDING BRIDGES AND STRENGTHENING THE INDUSTRY <i>Marcy Offner, Women in the Composites Industry (WCI)</i>	
9:15-9:45	FEATURED PRESENTATION:	UNIVERSITY OF WISCONSIN - MADISON SAE RACING TEAM VEHICLES MADE WITH THERMOSET TECHNOLOGY <i>Lily Zahn & Jackson Talbert, UW-Madison</i>	
9:45-10:15	NETWORKING BREAK & EXHIBITS		
10:15-10:45	PROCESS TECHNOLOGY:	Cutting & Stacking Redesigned AutoCut Pick & Place <i>Christian Fais, Schmidt & Heinzmann</i>	
10:45-11:15	MATERIAL TECHNOLOGY:	High-Performance Thermojetting Resin <i>Henry Sodano, Trimer Technologies</i>	
11:15-11:45	SUSTAINABILITY:	Understanding the Carbon Footprint of Sheet Molding Compounds <i>Eric Haiss, IDI Composites International</i>	
11:45-12:15	MATERIAL TECHNOLOGY:	High End Properties of Polyesters <i>Adam Tomasik, LyondellBasell</i>	
12:15-1:15	NETWORKING LUNCH <i>Sponsored by</i>	 MBI <small>MAR-BAL</small>	& EXHIBITS
	DAY 1 PM MODERATOR: Len Nunnery, <i>Board Member TOPCON - Plenco</i>		
1:15-1:45	TESTING TECHNOLOGY:	Ultrasound Inspection, Geometric Characterization of Damage, and Final Part Performance Prediction Methodology for Laminated Composites with Drilled Holes <i>Dr. David Jack & Kirtunia Rahul, Baylor University</i>	
1:45-2:15	TESTING TECHNOLOGY:	Ultrasonic Waveform Tracking and Testing of Mechanical Properties of Carbon Fiber Laminate Internal Ply Drops <i>Dr. David Jack & Joshua Norlin, Baylor University</i>	
2:15-2:45	TESTING TECHNOLOGY:	Fire Retardent Chemistries, Mechanisms, Small Scale Burn Test for Thermosets <i>Glade Squires, Omya & Vinod Arora, Core Molding Technologies</i>	
2:45-3:15	NETWORKING BREAK & EXHIBITS		
3:15-3:45	SUSTAINABILITY:	A Roadmap to More Sustainable Composite Materials <i>Mike Siwajek, Teijin Automotive Technologies</i>	
3:45-4:15	PROCESS TECHNOLOGY:	Reducing Air Trap and Weld Lines While Ensuring Uniform Heating While Molding BMC Materials <i>Ryan Furno, Sigmasoft</i>	
4:15-4:45	MATERIAL TECHNOLOGY:	Coupling Agents: Additives for Enhancing Mechanical Properties of Thermojet Composites <i>Brian Kleinheinz, BYK USA</i>	
4:45-5:00	DAY 1 CLOSING REMARKS Sean Campbell, <i>Chair TOPCON - LyondellBasell</i>		
5:00-7:00	COCKTAIL RECEPTION <i>Sponsored by</i>	 plenco	& EXHIBITS
7:00	CONFERENCE ADJOURNS FOR THE DAY		



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7:00–8:00 **NETWORKING BREAKFAST** *Sponsored by* **lyondellbasell** *Advancing Possible* **& EXHIBITS**

DAY 2 AM MODERATOR: Greg Spaeth, Board Member TOPCON – Plenco

8:00–8:30 **SUSTAINABILITY:** **Towards More Sustainable Resins**
Johnathon McKay, *INEOS Composites*

8:30–9:00 **SUSTAINABILITY:** **Case Studies Showing Benefits of Thermosets for Environment & Reclaimed Recycling**
Greg Spaeth, *Plenco*

9:00–9:30 **SUSTAINABILITY:** **Biodegradable Chitin Nanowhisker Reinforcement In Epoxy: A Thermal and Mechanical Property Analysis**
Aaron Guan, *Neptune Nanotechnologies & Lampton College Ontario*

9:30–10:00 **NETWORKING BREAK & EXHIBITS**

10:00–10:30 **BUSINESS:** **2024 Composite Market Vision**
Paul Salach, *Owens Corning*

10:30–11:00 **PROCESS TECHNOLOGY:** **Flat AC Dielectric Sensors for Flow Front Monitoring in VARTM**
Huan Lee, *Lambient Technologies*

11:00–11:30 **MATERIAL TECHNOLOGY:** **BEVs, Hybrids and the Drive to Lightweighting - Adhesives to Assist in Composites Growth**
Stephen Webb, *Parker*

11:30–12:30 **NETWORKING LUNCH** *Sponsored by* **spe** **THERMOSET TOPCON** WORLD'S LEADING THERMOSET TECHNOLOGY CONFERENCE & EXPO *Presented by SPE Thermoset Division* **& EXHIBITS**

DAY 2 PM MODERATOR: Sean Campbell, Chair TOPCON - LyondellBasell

12:30–1:00 **PROCESS TECHNOLOGY:** **Controlling Viscosity of Filled Composite Systems**
Erik Antonio, *Omya*

1:00–1:30 **PROCESS TECHNOLOGY:** **The Thermoset Factory of the Future: Utilizing Real-Time Material Characterization and Process Simulation**
Alec Redmann, *sensXPERT - technology by NETZSCH*

1:30–2:00 **BREAK & EXHIBITS**

2:00–2:30 **PROCESS TECHNOLOGY:** **Moldex Enhancing Electromobility: Advancements in Compression Molding Simulation Through Moldex3D**
Harshal Bhogesra, *Moldex3D*

2:30–3:00 **SUSTAINABILITY:** **Thermoset Automotive Bracket Replaces Magnesium in Valeo Application and Wins as a Finalist in SPE Automotive Innovation Awards Program 2023**
Don Wood, *LyondellBasell*

3:00–3:30 **SUSTAINABILITY:** **End of Life Considerations for Thermosets: Current State -of-the Art**
Jeff Gotro, *InnoCentrix*

3:30–3:45 **CLOSING COMMENTS: Len Nunnery, Board Member TOPCON - Plenco**

3:45 **CONFERENCE ADJOURNS FOR THE YEAR**