

2025 Northeast Power Electronics Symposium (NEPES)

Nov. 13, 2025

Day 1 Agenda

Time	Description	Location
7:30 AM	Registration	IPB Lobby
7:30 AM	Arrival, coffee, pastries	IPB 317
8:30 AM	Welcome Prof. Ali Bazzi, UConn Dean JC Zhao, UConn	IPB 317
8:45 AM	Industry Tutorial 1: Wolfspeed <i>Key Testing Considerations for Migrating from Silicon to Silicon Carbide</i>	IPB 317
10:15 AM	Coffee Break	IPB 317
10:30 AM	Keynote 1: Dr. Suman Dwari, RTX Technology Research Center <i>Opportunities in Power Electronics for the Current and Future Aerospace and Defense Industry</i>	IPB 317
11:00 AM	Keynote 2: Mr. Bill Welsh, Sikorsky/Lockheed Martin <i>Helicopter Dynamics : To Infinity and Beyond</i>	IPB 317
11:30 AM	Keynote 3: Prof. Jian Sun, Rensselaer Polytechnic Institute <i>Subsynchronous Oscillation is not Necessarily a Subsynchronous Problem</i>	IPB 317
12:00 PM	Lunch	IPB Lobby
12:45 PM	Introduction to the Center for Advanced Engineering Education (CAEE) at UConn	IPB 317
1:00 PM	Industry Tutorial 2: Mathworks <i>Power Electronics Control - A Brushless Motor Case Study</i>	IPB 317
2:30 PM	Coffee Break	IPB 317
2:45 PM	Industry Tutorial 3: Safran <i>Secure Converter and Substation Timing Synchronization with White Rabbit</i>	IPB 317
3:30 PM	Keynote 4: Prof. Charles Sullivan, Dartmouth College Improving high-frequency power magnetics for applications ranging from chip scale to ship scale	IPB 317
4:30 PM	Reception & Poster/Demo Session	IPB Lobby
6:00 PM	Panel 1: Recap of NEPES Day 1 <i>Moderator: Mr. John Noon, OTIS & IEEE PELS CT Chapter</i>	IPB 317

WI-FI Connect for free to "UConn-GUEST" or "eduroam" if applicable

Parking Free on both sides of IPB except for vehicle charger fees



Nov. 14, 2025

Day 2 Agenda

Time	Description	Location
7:30 AM	Registration	IPB Lobby
7:30 AM	Arrival, Coffee, Pastries	IPB 317
8:15 AM	Welcome Prof. Ali Bazzi, UConn	IPB 317
8:30 AM	Keynote 5: Dr. HanJong Kim, Carrier <i>Carrier power electronics for HVAC & transport Refrigeration</i>	IPB 317
9:00 AM	Keynote 6: Dr. Igor Cherepinsky - Sikorsky/Lockheed Martin <i>VTOL Aircraft Revolution Fueled by Electric Propulsion</i>	IPB 317
9:30 AM	Panel 2: Path to 1 MW Power Rack <i>Moderator: Mr. Brian Zahntecheer, PowerRox</i>	IPB 317
10:15 AM	Coffee Break	IPB 317
10:30 AM	CONPEX Updates	IPB 317
11:15 AM	Keynote 7: Dr. Shashank Krishnamurthy - OTIS <i>PCB Embedded Power Packaging</i>	IPB 317
11:45 AM	Keynote 8: Dr. Joseph Kozak - Applied Physics Lab, Johns Hopkins University <i>Challenges Developing a Motor-drive System for Deep-space Applications</i>	IPB 317
12:15 PM	Lunch	IPB Lobby
1:00 PM	Expert Presentations: Prof. Georges Pavlidis, UConn <i>Package to Device Thermal Considerations of Wide Bandgap Semiconductors</i> Prof. Jiangbiao He, University of Tennessee - Knoxville <i>Towards High-Reliability Electric Propulsion Drives</i> Prof. Shan Zuo, UConn <i>Super Safe and Resilient Control Framework for Networked Microgrids</i>	IPB 317
2:00 PM	Panel 3: Immersion and Advanced Thermal Management of Power Electronics <i>Moderator: Dr. Arshiah Mirza, Shell Techworks</i>	IPB 317
2:45 PM	Coffee Break	IPB 317
3:00 PM	Expert Presentations: Prof. Sam Coday, MIT <i>Enabling Ultra-Dense Buck-Boost Converters with Monolithic Bidirectional GaN</i> Prof. Sung Yeul Park, Uconn <i>Impedance-Based Diagnostics for Batteries, Solar PV, and Power Systems</i> Prof. Anhar Bhuiyan, University of Massachusetts Lowell <i>Ga2O3 Power Electronics: CVD Growth, Plasma-Free Etching, Devices, and Diamond Integration</i>	IPB 317
4:00 PM	Panel 4: Power Electronics Enabling Extreme Environments <i>Moderator: Mr. Stefan Bilyk, Triumph</i>	IPB 317
4:45 PM	Lab Tours	Selected Labs
5:45 PM	Reception & Poster/Demo Session	IPB Lobby