



Correct as of 09-May-2025 1:01pm For the latest version of our agenda, visit peinternational.net

Day 1 - Monday 7th April 2025

18:00 Pre-conference networking drinks reception

Day 2 - Tuesday 8th April 2025

08:00	Registration and welcome refreshments		
08:50	Housekeeping by Conference Chair		
Artificial Intelligence in Power Electronics: Optimizing Performance			
09:00	Artificial Intelligence-assisted Predictive Maintenance for Power Electronics Presented by Shuai Zhao - Aalborg University		
09:20	How Al-algorithms and Al-hardware Accelerate the Design Process in Power Electronics Presented by Andreas Rosskopf - Fraunhofer IISB		
09:40	Artificial Intelligence in Power Electronics: Challenges and Trends Presented by Wilmar Martinez - KU Leuven - Energy Ville		
10:00	How AI will Drive Growth in Power Semiconductors, from the (Data) Center to the Edge Presented by Callum Middleton - Omdia		
10:20	Morning Break		
11:00	SiC-Based Power Solutions for AI: Enabling Next-Generation Server Power Supplies with Unparalleled Efficiency and Reliability Presented by Aleksei Cherkasov - Infineon		
11:20	Navitas GaN and SiC Technologies to Enable Next-Gen Al Power Delivery Presented by Llewellyn Vaughan-Edmunds - Navitas		
11:40	Al-based Controllers for Power Electronics Converters Presented by Hani Vahedi - Delft University of Technology		
Energy Harvesting and Wireless Power Transfer: Enabling Autonomous Systems			
12:00	Growing Adoption of Wireless Power Across Sectors, including Industrial and Automotive Presented by Dinesh Kithany - Wired & Wireless Technologies (WAWT)		
12:20	Lunch Break		
Sustainable Power Conversion Technologies: Eco-Friendly Solutions			
Sustain	able Power Conversion Technologies: Eco-Friendly Solutions		
13:50	A Soft-switching based Inverter Topology for Automotive Traction Applications Presented by Ajay Poonjal Pai - Sanan		
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13:50	A Soft-switching based Inverter Topology for Automotive Traction Applications Presented by Ajay Poonjal Pai - Sanan Power Semiconductors – The Silent Heroes in the Transition of the Power Grid		
13:50 14:10	A Soft-switching based Inverter Topology for Automotive Traction Applications Presented by Ajay Poonjal Pai - Sanan Power Semiconductors – The Silent Heroes in the Transition of the Power Grid Presented by Tobias Keller - Hitachi Energy Contribution of Wide Band Gap Semiconductors to a More Sustainable Energy Landscape		
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Day 3 - Wednesday 9th April 2025

08:00 Registration and welcome refreshments 08:50 Housekeeping by Conference Chair Power Electronics for Electric Mobility: Accelerating Electrification How the Evolving EV Landscape Impacts Growth Prospects for Different Power Semiconductor Technologies 09:00 Presented by Callum Middleton - Omdia SiC and Si Hybrid for EV Inverter Applications, from Powertrain to Inverter to Module and Discrete 09:20 Presented by Yu Yang - Yole Group Silicon Carbide: The Game Changer in Power Electronics for Sustainable Electric Mobility 09:40 Presented by Simone Rascunà - STMicroelectronics Vacuum Soldering with Integrated Volatile Capture and Soft Cooling Technologies 10:00 Presented by Thomas Krebs - PINK GmbH Thermosysteme 10:20 Morning Break Solving the Challenges in Monolithic Power Conversion in GaN 11:20 Presented by Jef Thoné - MinDCet Power System Architecture approach in Automotive X-in-1 Reference Design 11:40 Presented by Pietro Scalia - Renesas Hot Die Pre-bonding Using Ultrasonic Technology for Power Module Manufacturing 12:00 Presented by Tomoyuki Sonoda - Panasonic Connect Enabling Interconnect and Final Assembly Technologies for EV Power Module Manufacturing 12:20 Presented by Huub Claassen - Boschman Advanced Packaging Technology / Powertrim Technologies GaN as a Missing Link in the Evolution of Efficient Mobility 12:40 Presented by Tamara Baksht - VisIC 13:00 Lunch Break Next-Generation Semiconductor Materials: Beyond SiC and GaN Vertical GaN Transistors: A Future Path for Wide-Bandgap Semiconductors in the Automotive World 14:30 Presented by Klaus Heyers - Bosch Zero-Flux Residue Solder Paste for Power Devices Using Formic Acid Reflow 14:50 Presented by Shantanu Joshi - KOKI Solder America Inc. **Precision Measurement Solutions to drive Transformation** 15:20 Presented by Thomas Rottach - Siglent Ultrawide Bandgap Semiconductors for Next Generation Power Electronics 15:40 Presented by Martin Kuball - University of Bristol Advancing Power Electronics with Aluminum Scandium Nitride 16:00 Presented by Ali Yassine - University Freiburg 16:20 **Closing Remarks**



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