PCIM Seminars 2026

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Sunday, 7 June 2026, 2 p.m. - 5:30 p.m.

Seminar 1	Seminar 2	Seminar 3
Advanced Technologies for Medium and Low Power AC-DC Converters Ionel "Dan" Jitaru, Rompower, US	**Basics for Electromagnetic Compatibility (EMC) of Power Electronics** Jacques Laeuffer, Dtalents, FR	**Accurate Optimization of High Performance SiC and GaN Multilevel Inverters with Severe Constraints** Bernardo Cougo, IRT Saint Exupery, FR
Seminar 4	**Seminar 5**	**Seminar 6**
Advanced Power Factor Control Techniques, from Analog to Digital Control: Theory and Practice Francesco Gennaro, Claudio Adragna, Marco Torrisi, STMicroelectronics, IT	**Designing Robust Industrial Interfaces: Advanced Strategies for Transient Protection** Heinz Zenkner, Würth Elektronik eiSos, DE	**DC Grid:Topology, Converters, Control and Protection, a Hands-On Experience** Peter van Duijsen, Diego Zuidervliet, The Hague University of Applied Sciences, NL
Seminar 7	**Seminar 8**	**Seminar 9**
Efficient GaN Power Electronics: Improved Static and Dynamic Performances, and Optimal Cooling Hongkeng Zhu, EPFL, CH	**Physics-Based Modeling, Control, and Observer Design in Electric Vehicles** Michael Schütt, Rostock Competence Center for Power Electronics, DE; Marc Petit, Miller Electric Manufacturing, US; Michael Saur, Merceds-Benz, DE	**AI-Enhanced Condition Monitoring and Control in Modern Power Electronics** Maher Al-Greer, Teesside University, GB

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Monday, 8 June 2026, 9 a.m. - 12:30 p.m.

Seminar 10	Seminar 11	Seminar 12
Magnetics for High Power in Artificial Intelligence and Modern Automotive Applications Ionel "Dan" Jitaru, Rompower, US	**Power Design for Nanoseconds Commutations (Part 1): Propagation & Converters** Jacques Laeuffer, Dtalents, FR	**Device Design and Driving of Power Semiconductor Devices** Thomas Basler, Chemnitz University of Technology, D Jan Fuhrmann, University of Rostock, DE
Seminar 13	**Seminar 14**	**Seminar 15**
Controlling Power Converters at the Limits of Physics (Part 1): Modelling and Design Christian Dick, Cologne University of Applied Science, DE Christoph van der Broeck, RWTH Aachen University, DE Sebastian Richter, AixControl, DE	**Modern Automotive Power Trains (Part 1): Design, Testing, and Reliability** Francesco Iannuzzo, Radu Bojoi, Gianmario Pellegrino, Polytechnic University of Turin, IT	**From Theory to Practice (Part 1): Fundamentals of WBG Power Semiconductors** Sebastian Sprunck, Fraunhofer IEE, DE Christian Lottis, Marco Jung, Bonn-Rhein-Sieg Universtiy of Applied Sciences, DE Benedikt Kohlhepp, Technical University of Berlin, DE
Seminar 16	**Seminar 17**	**Seminar 18**
Next Generation Magnetic Components: From Ferrite Complexity to AI Design Empowerment Miroslav Vasic, Lufan Zhou, Polytechnic University of Madrid, ES; Marcin Kacki, Hitachi Energy, PL	**Designing Next-Generation Power Electronics to Pass EMC the First Time** Min Zhang, Mach One Design, GB	**Isolation-Coordination Design Steps for Power Electronics Applications** Ilknur Colak, Schneider Electric, DE

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Monday, 8 June 2026, 1:30 p.m. - 5 p.m.

Seminar 19	Seminar 20	Seminar 21
High Power and Very High-Density Technologies for Modern Automotive and Artificial Intelligence Ionel "Dan" Jitaru, Rompower, US	**Power Design for Nanoseconds Commutations (Part 2): Magnetics, Flybacks & Drives** Jacques Laeuffer, Dtalents, FR	**Power Cycling and Lifetime Estimation of Power Semiconductor Devices** Thomas Basler, Chemnitz University of Technology, DE Jan Fuhrmann, University of Rostock, DE
Seminar 22	Seminar 23	Seminar 24
Controlling Power Converters at the Limits of Physics (Part 2): Digital Design and Implementation Christian Dick, Cologne University of Applied Science, DE Christoph van der Broeck, RWTH Aachen University, DE Sebastian Richter, AixControl, DE	**Modern Automotive Power Trains (Part 2): Case Studies** Francesco Iannuzzo, Radu Bojoi, Gianmario Pellegrino, Polytechnic University of Turin, IT	**From Theory to Practice(Part 2): Switching Losses in Power Semiconductors** Sebastian Sprunck, Fraunhofer IEE, DE Hauke Lutzen, University of Bremen, DE Christian Lottis, Bonn-Rhein-Sieg Universtiy of Applied Sciences, DE
Seminar 25	Seminar 26	Seminar 27
Advancements in Wireless Charging Systems for EVs - Design Challenges and Practical Solutions Miroslav Vasic, Polytechnic University of Madrid, ES; Nikola Mirkovic, Institute Nikola Tesla, RS	**Power Converters for Energy Storage Systems, Classics to Cutting-Edge** Alireza Ghanbari, Petar Grbovic, University of Innsbruck, AT	**Solid State Transformers: Topologies, Use Cases, Design Considerations, and Challenges** Ilknur Colak, Schneider Electric, DE; Rafael Medeiros, Ahmed Meligy, Schneider Electric, FR