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EUROPE

9 – 11.5.2023
NUREMBERG, GERMANY

**CONFERENCE,
SEMINAR
AND TUTORIAL
PROGRAM**

Messe Frankfurt Group

Seminars

Sunday, 7 May 2023

2 p.m. – 5:30 p.m.

Basics for Electromagnetic Compatibility (EMC) of Power Electronics
Jacques Laeuffer, Dtalents, F

Magnetic Design for Very High Efficiency and Power Density
Ionel Dan Jitaru, Rompower, USA

Ceramic and Electrolytic Capacitors in Power Electronics
Sam Ben-Yaakov, Ben-Gurion University, IL

Design and Layout of Gate Drive Circuits for GaN Power Transistors
Eric Persson, Infineon, USA | Edward Jones, Infineon, A

Sigma-Delta Based Current/Voltage Sensing in Electronic Converters
Jens Onno Krah, Cologne University of Applied Science, D |
Florian Kulla, LEM International, CH

WBG Devices, Circuits and Measurement
Edward Shelton, University of Oxford, UK |
Dan Rogers, University of Oxford, UK | Michael de Rooij, EPC, USA

Monday, 8 May 2023

9 a.m. – 12.30 p.m.

How to use Ferrites on Power Distribution Cable Systems as an Example in Electric Vehicles
Heinz Zenkner, Würth Elektronik eiSos, D

Optimum Design of High Power High Frequency Magnetics to enable High Power Converter Design for Electric Vehicle fast Charging Applications
Kapila Warnakulasuriya, Infineon Technologies Reigate, GB

Monday, 8 May 2023

1.30 p.m. – 5 p.m.

Designing Advanced EV Traction Inverter Systems
John Geiger, Texas Instruments, USA | Hui Tan, Texas Instruments, USA |
Tom Hendrick, Texas Instruments, USA | Robert Martinez, Texas Instruments USA

The Digital Transformation in the Circular Economy of Lithium-Ion-Batteries
Adam Balinski, Fraunhofer IPA, D | Soumya Singh, Fraunhofer IPA, D

USB-PD – Trends, Technologies and Solutions
Christian Burrer, Infineon Technologies, D | Alfredo Medina-Garcia, Infineon Technologies, D | Prasanna Vijayakumar, Infineon Technologies, USA |
Shopitham Ram, Infineon Technologies, USA | Andrei Savu, Rompower, ROU

Tutorials

Monday, 8 May 2023

9 a.m. – 5 p.m.

Controlling Power Converters at the Limits of Physics

Christian Dick, Cologne University of Applied Science, D |
Sebastian Richter, AixControl, D |
Christoph van der Broeck, Robert Bosch, D

A New Design Approach for Faster Power Electronics

Jacques Laeuffer, Dtalents, F

New Soft Switching and Magnetic Technologies for Very High Efficiency and Power Density

Ionel Dan Jitaru, Rompower, USA

Advanced System Design with Ultra-Fast Si/SiC/GaN Power Semiconductor Devices

Tobias Reimann, ISLE Steuerungstechnik und Leistungselektronik, D |
Thomas Basler, Chemnitz University of Technology, D

Reliability of Si and Wide Bandgap Power Devices and Packages

Josef Lutz, Chemnitz University of Technology, D

Solid State Transformers: Topologies, Use Cases, Design Considerations and Challenges

Ilknur Colak, Schneider Electric, F |
Ahmed Meligy, Schneider Electric, F |
Rafael Medeiros, Schneider Electric, F

Book early
and save up to
100 Euro.



Early Bird Rate
available until
7 March 2023.

Conference

Tuesday, 9 May 2023

Community Coffee
Conference Opening and Award Ceremony

Keynote How Life Cycle Analyses are Influencing Power Electronics Converter Design
Franz Musil, Fronius International, A

GaN Devices	Package Reliability I	Converter Design and Optimization	Power IC	Passive Components I	Morning
SiC Device Technology	Package Reliability II	WBG Devices and Applications	System Reliability	Power Electronics for Railway Traction	Afternoon

Poster / Dialogue Sessions & Coffee Time

Wednesday, 10 May 2023

Community Coffee
Keynote On the Way to the DC Factory – The Open Industrial DC Grid for Sustainable Production Sites is Entering the Dissemination Phase
Holger Borcherding, iFE, Ostwestfalen-Lippe University of Applied Sciences and Art, D

Solutions for Future Medium Voltage Grids	Advanced IGBT's and Modules	Thermal Perfomance and Measurement	Energy Storage Systems	Passive Components II	Morning
Power Electronics for E-Mobility	Power Electronics for Automotive	New and Renewable Energy Systems	Packaging and Integration	Cu-Sintering	Afternoon

Poster / Dialogue Sessions & Coffee Time

Thursday, 11 May 2023

Keynote HV Silicon and SiC Power Semiconductors – Key Components for Sustainable Energy Solutions
Munaf Rahimo, MTAL, CH

SiC Device Design	Understanding Losses in WBG Power Devices	High Power SiC Converters	High Frequency Converters and Applications	Morning
DC-DC Converters	SiC Device Application	Power Electronics for Charging Station	Sensing and Measurement	Afternoon

Poster / Dialogue Sessions & Coffee Time

Conference Sponsors



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pcim-europe.com/program

As of January 2023/
subject to changes.

Why you should attend

Get ready for a new conference experience and join the community!

01

Gain a comprehensive **market overview** at the most significant platform for power electronics.

02

Gain access to **more than 400 presentations** on the latest research, developments and technologies on site and on demand.

03

Visit **up to 500 exhibitors** showcasing their latest innovations in Nuremberg and benefit from complementing **exhibitor profiles online**.

04

Benefit from manifold **opportunities to network** with experts from all over the world – independent of time and place.



» The PCIM Europe is the optimal platform for application-oriented power electronics topics linking the industry, research institutes and universities! It is a must for everyone who is interested in application-oriented power electronics. «

Lukas Bergmann
Scientific Employee, University Bayreuth

Call for Papers

You are an expert in the field of power electronics and would like to present your latest developments and research findings to a highly-qualified audience?

Take the chance and become a speaker
at the PCIM Europe from 11 – 13 June 2024!

Call for Paper Deadlines

Submission of abstracts
18 October 2023

Notification of acceptance
January 2024

Submission of full manuscript
9 April 2024

The Call for Papers will be online from mid June 2023.

Venue

NürnbergMesse GmbH
NCC Mitte • Otto-Bärnreuther-Strasse
90473 Nuremberg • Germany

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