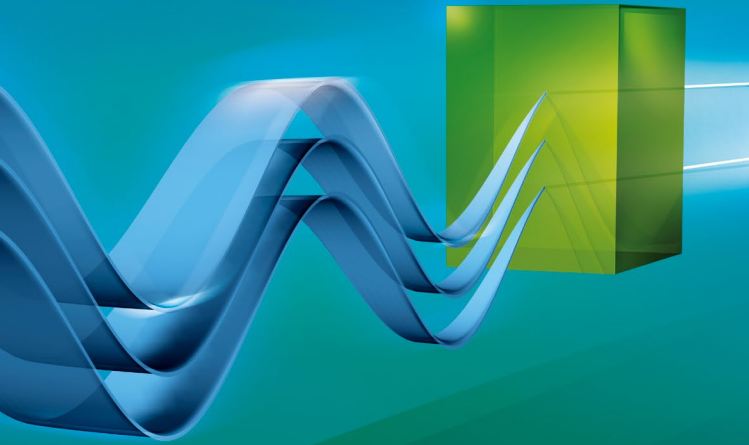


# pcim

EUROPE

International Exhibition and Conference  
for Power Electronics, Intelligent Motion,  
Renewable Energy and Energy Management

Nuremberg, 10 – 12 May 2022  
[pcim-europe.com](http://pcim-europe.com)



## Conference, Seminar and Tutorial Program

analog & digital

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# Seminars

Sunday, 8 May 2022

2 p.m. – 5:30 p.m.

on-site only

## Basics for Electromagnetic Compatibility (EMC) of Power Electronics

Jacques Laeuffer, Dtalents, F

## The Impact of GaNs on AC-DC Power Adapters

Ionel Dan Jitaru, Rompower, USA

## Model Predictive Control of Power Converters: Control Methods and Industrial Applications

Tobias Geyer, ABB Switzerland, CH

Ralph Kennel, Technical University of Munich, D

Jose Rodriguez, Universidad Andres Bello, CO

## Solid State Transformers - Challenges and Applications

Ilknur Colak, Schneider Electric, F

## Advances in Planar Magnetics for High Frequency Switched Mode Power Supply

Gerard Hurley, National University of Ireland, IE

Ziwei Ouyang, Technical University of Denmark, DK

## Insight in Modern Capacitor Technologies for Power Electronic Applications

Thomas Ebel, University of Southern Denmark, DK

## The Surprising Benefits GaN Brings to BLDC Motor Drives – Design, Performance, and Cooling

Michael de Rooij; Marco Palma, EPC, USA

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until 3 March 2022.

# Tutorials

Monday, 9 May 2022

9 a.m. – 5 p.m.

on-site only

## The Impact of GaNs on Very High Efficiency Power Conversion

Ionel Dan Jitaru, Rompower, USA

## Controlling Power Converters at the Limits of Physics

Christian Dick, Cologne University of Applied Science, D

Sebastian Richter, AixControl, D • Christoph van der Broeck, RWTH Aachen, D

## A New Design Approach for Faster Power Electronics

Jacques Laeuffer, Dtalents, F

## High Performance Motion Control

Jens-Onno Krahn, Cologne University of Applied Sciences, D

## 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 and Lifetime Estimation of Si and Wide Bandgap Power Devices and Packages

Josef Lutz, Chemnitz University of Technology, D

## Reliability Engineering in Power Electronics Systems

Frede Blaabjerg; Francesco Iannuzzo; Huai Wang,

Aalborg University, DK

## Hybrid Grids: DC Technology to Unlock Capacity of AC Systems

Marco Liserre; Xiang Gao; Marius Langwasser; Hrishikesan Madhavan,

University of Kiel, D

## Practical Considerations for Designing Low Voltage DC Grids

Simon Ravyts; Johan Driesen, KU Leuven, BEL

G. van den Broeck, dcinergy, BEL

## Gate Drive Technologies

Reinhard Herzer; Arendt Wintrich, Semikron Elektronik, D

# Conference

Tuesday, 10 May 2022 – on-site and on-demand

Morning Coffee Reunited

Conference Opening and Award Ceremony

**Opening Keynote on the topic »Hydrogen«**

Jürgen Rechberger, Vice President Hydrogen & Fuel Cell, AVL List, A

Advanced GaN Power Electronics	Cognitive Power Electronics	Advanced Measurement Technology in Power Electronics	DC/DC Converters	Battery Chargers
Packaging Technologies	High Voltage Si Devices	SiC Devices in Transportation	Advanced IGBTs	Converter Control

Poster / Dialogue Sessions & Coffee Time

Wednesday, 11 May 2022 – on-site and on-demand

Morning Coffee Reunited

**Keynote »Power Electronics for a Future Sustainable Society«**

Ichiro Omura, Professor, Kyushu Institute of Technology, J

Behavior and Reliability of SiC Devices	Renewable Energy Systems and Optimization	Advanced Gate Drivers	Passive Components	Measurement Techniques and EMC
Power Module Technology	Sintering Technologies	System Reliability	GaN Switches in Mission Critical Applications	Low Power Converters using WBG Materials

Poster / Dialogue Sessions & Coffee Time

Thursday, 12 May 2022 – on-site and on-demand

**Keynote »From State of the Art to Future Development Trends of Power Supply«**

Peter Wallmeier, Senior Director, Delta Energy Systems, D

SiC Devices	Reliability	Converter Design	Motors and Electric Drives
Thermal Management	Design and Optimization	Wireless Power Transfer	Full program on <a href="http://pcim-europe.com/program">pcim-europe.com/program</a>

# Why you should attend

Get ready for a new conference experience and join the community – analog, digital or hybrid, you choose!

- 01 Gain a comprehensive **market overview** at the most significant platform for power electronics.
- 02 Gain access to **more than 300 presentations** on the latest research, developments and technologies on-site and on-demand.
- 03 Visit **up to 400 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.



This is the place to be if you want to stay up-to-date about power electronics. There is no debate, PCIM Europe is the number one conference in power electronics.



Francesco Iannuzzo,  
Professor, Aalborg University, DK

# Venue

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