

# POWER WEBINAR

Sharpen Your Power Supply Design Acumen

## Americas, EMEA & South East Asia Authors & Presenters



### Didier Balocco

Business Marketing Engineer

Didier Balocco currently serves as the business marketing engineer for Europe at **onsemi**. He came to **onsemi** through the company's acquisition of Fairchild Semiconductor, which he joined in 2014 as a field application engineer (FAE) supporting the south of France, Spain, and Portugal.

Previously, Didier worked at AEG Power Solutions, formerly Alcatel Converters, as a research engineer for DC-DC and AC-DC converter design in a range of 1 W to 1 kW, mainly for telecom equipment. While at this company, he also managed the research activities.

Among his projects, Didier worked on a 15-kW solar inverter module for a 150-kW cabinet in Dallas, Texas, USA. His main interests during this period were switched-mode power supplies, converter stability and modeling, as well as high power factor rectifiers.

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### Catherine De Keukeleire

Director of Reliability & Quality Assurance  
Wide Bandgap & Power Modules

Catherine graduated from the Université de Bourgogne – Dijon, France. She received her master's degree in Applied Physics & Electronics in 1992 and her Ph.D. in Solid State Physics & Microelectronics in 1996.

She moved to Belgium right after her Ph.D., accepting a position as a Reliability Engineer at Alcatel Microelectronics, later acquired by AMI Semiconductor and then **onsemi**. Her primary focus was on electromigration degradation and hot carrier performance of DMOS transistors in BCD technologies. While still driven by technical expertise and strong academic knowledge, she rapidly grew into leadership, first managing a small group of Reliability Engineers working on validating manufacturing processes and qualification of Silicon technologies. In 2006, she extended her responsibilities to the qualification of ASIC and ASSP products for the Automotive market, including management of the local reliability laboratory.

A few years back, she added the reliability of GaN and SiC technologies to her fields of interest. Since 2021, she has been leading the intrinsic wide bandgap and power module reliability organization at **onsemi**.

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### Rogério R. Ferreira

Motor Control Solutions Hardware Application Engineer

Rogério received his electrical engineering degree from the Universidade Federal de Santa Catarina (UFSC), Brazil, in 1994 and a master's degree in Microelectronics from the UFSC, Brazil, in 1996.

He has more than twenty years of experience in embedded electronic design in different market segments (refrigeration, security, and appliance industries). He dedicated most of this period to the appliance industry and focused on embedded motor control hardware for laundry, dishwasher, and refrigeration applications (up to 1.5kW). He joined the **onsemi** motor control solutions unit in 2021 and provided support on BLDC motor control design migration.

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### Daniel Goldmann

Senior Applications Engineer

Daniel Goldmann works as a Senior Applications Engineer at the Systems Engineering Center at **onsemi**. Daniel joined **onsemi** at the start of 2022.

Before that, he worked at the University of Applied Sciences Munich while pursuing his Ph.D. at the Technical University Munich. His main area of expertise is the open-loop control of Dual Active Bridge converters using analytic equations. His interests also include power converter topology modeling in different physical domains (electrical, magnetic, thermal) and combining this knowledge to optimize converter operation. He worked on single-stage AC/DC and DC/DC conversion within the range of 3 kW to 150 kW building various grid-connected energy storages as prototypes to validate his research.

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### Jonathan Harper

Member of Technical Staff

Jonathan Harper is a Member of the Technical Staff at **onsemi** based in Munich, covering Energy Infrastructure and European marketing for the Advanced Solutions Group. He has BSc/MEng degrees in electrical engineering from the University of Bath and an MBA from the University of Warwick.

He has over thirty years of experience working on the market development and definition of power products in marketing and applications roles at **onsemi**, Fairchild Semiconductor, and National Semiconductor.

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### Stefan Kosterec

Applications Engineer

Stefan Kosterec is an Application Engineer at the Systems Engineering Center at **onsemi**. Stefan joined the company in 2013. Stefan has a master's degree in Applied informatics from the Faculty of Materials Science and Technology of Slovak Technical University Trnava.

Previously, he worked for eight years at Siemens PSE as ASIC/FPGA designer, developing digital solutions targeted at various areas, such as communications, power conversion, and motor control. He also spent two years at Vacuumschmelze, acting as an inductive components designer, and took the role of product integrity engineer at Emerson Energy Systems, where he was responsible for telecom power systems verification.

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### Roman Radvan

Applications Engineer

Roman received his electrical engineering master's degree in 2010 and a Ph.D. degree in 2014 in Power Electronic Systems, both from the University of Žilina in Slovakia. After studying, he worked for the University Science Park for one year, and in 2015 he joined onsemi.

He has more than seven years of experience with high-frequency and high-power density SMPS designs based on GaN HEMT. His primary focus is developing integrated GaN devices and ultra-high power density solutions.

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### Karol Rendek

Applications Manager

Karol Rendek is an Applications Manager at the Systems Engineering Center at onsemi. Karol joined onsemi in 2020.

Previously, he spent nine years working as a hardware engineer, system engineer, and project manager in the development of embedded systems, Class D amplifiers, rolling stock control and safety systems, and industrial electric vehicle chargers.

Karol has a master's degree and Ph.D. in Microelectronics from the Slovak University of Technology in Bratislava. He spent three years during his Ph.D. study focusing on low-frequency noise analysis of GaN HEMT transistors.

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### Jason Yu

Applications Engineer

Jason Yu joined onsemi in 2021 and works as an Application Engineer at onsemi in China.

Jason graduated from the South China University of Technology and has over twenty years of experience in power supply design and power electronics research. His domain of expertise contains AC/DC power supplies, telecom/datacom power, high power, brick power, switching power supply digital control, and digital power applications.

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