

# Trends in Microgrid Applications

Tuesday, 27. March 2018, Technopark Zurich

This seminar will present an overview on future Microgrids, in particular it will give insights on technological and economic benefits of AC and DC microgrid architectures. The roles of storage systems and control strategies to enhance microgrid's performance and stability will be extensively presented, with examples of the latest technological advances. In nowadays technological paradigm, systems are becoming more autonomous and smart; an overview of transducers for microgrid application and a future outlook will be also provided.

Room Cobol 2. Floor, Technoparkstrasse 1, CH-8005 Zurich, [www.technopark.ch](http://www.technopark.ch). Workshop registration opens at 1PM.

13:20-13:30	<b>Welcome and Introduction</b> <b>Luca Dalessandro</b> Chairman IEEE Industrial Electronics Society Swiss Chapter, Schaffner Group	Luca Dalessandro received his PhD in Power Electronics from ETH Zurich in 2007 and he is currently the Group Technology Manager of the Schaffner Group. Prior to Schaffner, he was with Alstom BU Power Generation and ABB BU Power Conversion. He is a Senior Member IEEE and Associate Editor of both IEEE Transactions on Power Electronics and IEEE Transactions on Industrial Electronics.
13:30-14:15	<b>"A concept for a DC network in industrial production sites"</b> <b>Benno Weis</b> Siemens	Dr. Benno Weis received his diploma in electrical engineering from the University of Darmstadt in 1995 and his PhD from the University of Erlangen-Nürnberg in 2008. Since 1995, he works with Siemens AG in Erlangen in the field of power electronics and he is currently a senior engineer for power electronics and hardware architecture. In IEC and CENELEC, he is chairman of the committee TC22 for power electronics. In addition, he contributes in various working groups in the field of EMC and energy efficiency. In the German project DC-Industrie, he has been responsible for the overall system concept.
14:15-15:00	<b>"Transducers for Microgrids"</b> <b>Thomas Hargé</b> LEM	Thomas Hargé, Master of Science in microelectronics and MBA, held marketing oriented positions in the electronic components industry. Since 2014 he works at LEM as Global Product Manager - Renewable Energy.
15:00-15:45	<b>"Importance of microgrid control in providing benefits to off-, weak- and strong-grid systems"</b> <b>Simon Round</b> ABB	Dr. Simon Round has over 20 years of experience in the digital control of power electronic systems, both as an academic and working in industry. For the last 9 years, he has worked for ABB Switzerland as a Control Technology Manager and most recently as the Technology Manager for ABB's Microgrid Program. Previously, he was a Professor at the University of Canterbury in New Zealand, and with ETH Zurich as a Senior Researcher. Simon has published over 100 journal and conference papers, ranging from active harmonic filters to SiC power devices & converters, and is a Senior Member of IEEE.
15:45-16:30	<b>"Battery Storage for a Stable Microgrid"</b> <b>Lucia Grüter</b> Leclanché	Lucia Grüter holds a degree in Chemistry, a Ph.D. in Physics and an MBA. She joined Leclanché in 2017 as Global Product Manager C&I, where she leads the development of new battery storage products for commercial and industrial applications as well as for microgrids. Prior to Leclanché, she worked for the eight years in the field of renewable energy (PV, wind power) as project leader, consultant and in business operations.
16:30-17:30	<b>Apero'</b>	

<b>Registration Fees:</b>	Non IES Member	60 CHF
	IES Member	30 CHF
	Non IES Student Member	20 CHF
	IES Student Member	free

Registration fees are collected during the registration the day of the workshop. Participation can be announced using <https://events.vtools.ieee.org/events/search> (preferred) or writing to: [dalessandro@IEEE.org](mailto:dalessandro@IEEE.org).