

NEWSLETTER



JUNE 2021

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EPE'21 ECCE Europe

- **Registration**

Enjoy the early bird registration and register today
early bird registration till 12 July 2021

Registration

Make sure to [renew your EPE membership](#) on time to be able to registered at the reduced registration fee.

Do not forget to register for the tutorial of your choice!

- **Keynotes**

Keynote 1: Tuesday 7 September 2021 – 09:30-10:00



Functional needs and potential technologies, to enable the stepwise development of HVDC multi-terminal grids

Dr. Florent MOREL
 SuperGrid Institute
 Research Group Leader

Keynote 2: Tuesday 7 September 2021 – 13:30-14:00



Multi-Scale Control and Modeling of Power-Electronic Systems and Networks

Prof. Dr. Sudip MAZUMDER
 University of Illinois at Chicago
 Professor and Director of the Laboratory for Energy and Switching-Electronic Systems
 President of NextWatt LLC

Keynote 3: Wednesday 8 September 2021 – 09:00-09:30



The future of e-mobility

Prof. Dr. Ir. Joeri VAN MIERLO
 Director of MOBI – Mobility, Logistics and Automotive technology research centre
 Head of ETEC – Department of Electrical Engineering and Energy Technology
 Vrije Universiteit Brussel, Belgium

Keynote 4: Wednesday 8 September 2021 – 09:30-10:00**[HITACHI's vision for a carbon-neutral future](#)****Dr. Norihiro SUZUKI**

Vice President & Executive Officer
 Chief Technology Officer
 Hitachi, Ltd.

Keynote 5: Wednesday 8 September 2021 – 13:30-14:00**[Hybrid Electric Solutions for Marine Applications](#)****Dr. Sami KANERVA**

Global Product Manager, Fuel Cells
 ABB Oy, Marine & Ports

Keynote 6: Thursday 9 September 2021 – 09:30-10:00**[Reliability of Modern Power Electronic based Power Systems](#)****Prof. Dr. Ir. Frede BLAABJERG**

Department of Energy Technology
 Aalborg University, Denmark

Keynote 7: Thursday 9 September 2021 – 13:30-14:00**[Power Electronics – A Key Enabling Technology to realize the Green deal](#)****Prof. Dr. Ir. Rik DE DONCKER**

RWTH Aachen University
 E.ON Energy Research Center & Research Campus Flexible Networks
 Aachen, Germany

One more to come**[Keynotes](#)**

- **Tutorials**

TUTORIAL N° 2**Morning (09:30 – 13:00)****[Reliability of Modern Power Electronics Based Power System \(PEPS\)](#)**

- Frede BLAABJERG (Department of Energy Technology, Aalborg University, Denmark)
- Dao ZHOU (Department of Energy Technology, Aalborg University, Denmark)
- Saeed PEYGHAMI (Department of Energy Technology, Aalborg University, Denmark)
- Jose RUEDA TORRES (Electrical Sustainable Energy Department, Delft University of Technology, the Netherlands)

TUTORIAL N° 3**Full Day (09:30 – 13:00 + 14:00 – 17:30)****[Safety considerations in Low Voltage DC Grids](#)**

- Johan DRIESEN (KU Leuven/EnergyVille)
- Simon RAVYTS (KU Leuven/EnergyVille)
- Giel VAN DEN BROECK (DCINERGY)

TUTORIAL N° 4**Full Day (09:30 – 13:00 + 14:00 – 17:30)****[Control of Modular Multilevel Converters for Variable-Voltage Variable-Frequency Applications](#)**

- Axel MERTENS (Institute for Drive Systems and Power Electronics, Leibniz University Hannover)
- Jakub KUCKA (Power Electronics Laboratory, EPFL)
- Dennis KARWATZKI (Siemens AG, Large Drive Applications)

TUTORIAL N° 5**Morning (09:30 – 13:00)****[Integrated Drives: power electronics and electrical machine challenges](#)**

- Betty LEMAIRE-SEMAIL (Université de Lille)
- Nadir IDIR (Université de Lille)
- Eric SEMAIL (Université de Lille)
- Ke LI (Coventry University)
- Souad HARMAND (Université Polytechnique des Hauts de France)
- Florent NIERLICH (CTO Safran Electrical & Power)

TUTORIAL N° 7**Full Day (09:30 – 13:00 + 14:00 – 17:30)****[Getting to know LLC resonant converters: a guided tour through modeling, design, control and practical issues](#)**

- Claudio ADRAGNA (STMicroelectronics)
- Francesco GENNARO (STMicroelectronics)

TUTORIAL N° 8**Afternoon (14:00 – 17:30)****[Grid forming converters connected to the transmission system](#)**

- Xavier GUILLAUD (L2EP Centrale Lille)
- Frédéric COLAS (L2EP ENSAM)
- Taoufik QORIA (L2EP Centrale Lille)

TUTORIAL N° 9**Full Day (09:30 – 13:00 + 14:00 – 17:30)****[Model Predictive Control of Power Electronic Systems: Methods, Results, and Challenges](#)**

- Tobias GEYER (ABB System Drives, Switzerland)
- Petros KARAMANAKOS (Faculty of Information Technology and Communication Sciences, Tampere University, Finland)

TUTORIAL N° 10**Afternoon (14:00 – 17:30)****[Reliability and Lifetime of PV-Battery Systems](#)**

- Huai WANG (Aalborg University)
- Daniel-Ioan STROE (Aalborg University)
- Ariya SANGWONGWANICH (Aalborg University)

TUTORIAL N° 12**Morning (09:30 – 13:00)****[Testing and Modelling of Power Electronic Components for Reliability](#)**

- Francesco IANNUZZO (Corpe – Aalborg University)
- Amir Sajjad BAHMAN (Corpe – Aalborg University)

TUTORIAL N° 13**Afternoon (14:00 – 17:30)****[The frequency range 2-150 kHz \(supraharmonics\): Challenges for distribution networks due to modern power electronics](#)**

- Jan Meyer (Technische Universität Dresden)
- Pooya Davari (Aalborg University)

TUTORIAL N° 14**Morning (09:30 – 13:00)****[Modular Multi-Level Converter enabling Reliability-Oriented Control and Fault Protection in MVdc Grids](#)**

- Marco Liserre (Christian-Albrechts-Universität zu Kiel)
- Rongwu Zhu (Harbin Institute of Technology)
- Marius Langwasser (Christian-Albrechts-Universität zu Kiel)


[Tutorials content](#)

- ***Exhibition & Sponsorship opportunities***

Exhibition

[Tariffs & registration](#)

[Whova tutorial](#)
Sponsorship opportunities

*Companies or organisations are welcome to sponsor the conference.
A custom-made visibility package can be set up on request by email.*

Contact person: Nancy Langsberg – nancy.langsberg@vub.be

ECPE: Calendar of events 2021

<https://www.ecpe.org/events/workshops-tutorials/all>

Future EPE ECCE Europe and Technically Sponsored Conferences

2021:

- **ECCE, 10 - 14 October 2021, Vancouver, Canada**
<http://www.ieee-ecce.org/2021/>

2022:

- **IPEC 2022 ECCE Asia, May 15-19, 2022, Himeji, Japan**
<https://www.ipec2022.org/>
- **EPE 2022 ECCE EUROPE, 5 - 9 September 2022, Hannover, Germany**



Pre-Announcement and Save-the-Date

The 24th European Conference on Power Electronics and Applications / IEEE ECCE Europe 2022 will take place in Hannover, Germany, from September 5 to 9, 2022, at the Hannover Congress Centrum (HCC). The venue provides large spaces for all activities associated with the conference and exhibition. In addition, tutorials will take place in the rooms of Leibniz University Hannover.

We are confident that we can meet face to face in Hannover for the first time after three years. We hope that you will find this an attractive occasion to meet with colleagues and friends. See you in Hannover in September 2022!

For more information, see our website which will be continuously updated.

<http://www.epe2022.com>

Axel Mertens, Prof. Dr.-Ing.
General Chairman, EPE 2022

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More information:

EPE Secretariat
Nancy Langsberg
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