

NEWSLETTER



AUGUST 2021



Contents

- [EPE'21 ECCE Europe](#)
 - [Registration](#)
 - [Technical programme](#)
 - [Keynotes](#)
 - [Tutorials](#)
 - [Industrial Forum](#)
 - [Exhibition](#)
- [Social Media](#)
- [Advertise in Future Editions of this Newsletter](#)
- [EPE Membership](#)



EPE'21 ECCE Europe

- **Registration**

Don't wait too long to register, do it today

From 27 August on, the registration fee will increase

[Registration](#)

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

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

- **Technical programme**

The dynamic technical programme is online. Check it out at:

[Technical programme](#)

● Keynotes

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

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

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

09:30-10:00



HITACHI's vision for a carbon-neutral future

Dr. Norihiro SUZUKI
Vice President & Executive Officer
Chief Technology Officer
Hitachi, Ltd.

13:30-14:00



Hybrid Electric Solutions for Marine Applications

Dr. Sami KANERVA
Global Product Manager, Fuel Cells
ABB Oy, Marine & Ports

*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

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

16:10-16:40**Power Electronics, a Key Technology for the Renewable Energy System Integration**

Hélène CHRAYE
European Commission, DG R&I
Head of Unit Clean Energy Transition

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° 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

● *Industrial Forum*

Friday 10 September 2021 (10:00 - 12:00 + 13:00 - 17:00)

The EPE ECCE Europe conference brings together researchers, engineers, etc. working at the forefront of power electronics technologies. With the objective to exchange and meet fellow professionals and academics and on top of the tutorials, lecture and dialogue sessions, the organising committees will propose **several discussion sessions within the industrial forums**.

The sessions will be open to all EPE 2021 Conference participants.



Industrial Forum Chairman

*Dr. Piotr DWORAKOWSKI
SuperGrid Institute
Research Group Leader*

The industrial forum will be a whole day program with presentations (15 min each) and panel discussions.

During the different sessions, **a wide range of subjects** will be covered:

- reliability and condition monitoring
- energy transition
- green traction and electric vehicles

Invited speakers from leading companies and research centers:

- ❖ ABB
- ❖ Amantys Power Electronics
- ❖ CORPE
- ❖ ITER
- ❖ Maschinenfabrik Reinhausen
- ❖ Mathworks
- ❖ Mitsubishi Electric Research Center Europe
- ❖ Siemens Mobility
- ❖ Speedgoat
- ❖ SuperGrid Institute
- ❖ Yole Développement

● *Exhibition & Sponsorship Opportunities*

Exhibition

Virtual booth fee:

- Stand price: 799 € VAT exc. + Exhibitor's registration (full rate)
 - Same as the participant's registration fees:
 - Full rate conference or author registration:*
 - 540 € VAT inc. until 12 July;
 - 630 € VAT inc. from 13 July to 26 August;
 - 830 € VAT inc. after 26 August.
 - Price increases at the same deadlines as for the participants
 - No exceptions: Company's authors already registered are not valid.

Stand will only be valid if there is a registered representative of the company.

- Additional orders:
 - + 499 € VAT exc. for information on EPE Association Website
(www.epe-association.org)
 - + 299 € VAT exc. for a vendor session (20 minutes)

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



Social Media

We are on Social Media! Let's get social!



Advertise in the EPE Newsletter

Do you know how to reach thousands of engineers across the world?
A simple and easy way is to publish in our monthly newsletter.

More information:

EPE Secretariat

Nancy Langsberg

nancy.langsberg@vub.be

EPE Membership

Become a member or renew your membership

- ✓ Be part of a network of recognized experts
- ✓ A free subscription to the recognized EPE Journal
- ✓ Online access to EPE Journal articles
- ✓ Online access to EPE Conference Proceedings
- ✓ Online access to EPE-PEMC Conference Proceedings
- ✓ EPE Secretariat service
- ✓ Reduced registration fees for EPE Conferences and events
- ✓ And much more ...

Join EPE Association

