

## Organisational Information

Sign up at: [Network Meeting \(ecpe.org\)](https://www.ecpe.org)

Registration Deadline:

1 October 2021

- The registration is open for representatives of ECPE Member companies and Competence Centres as well as for invited guests.
- Participation is free of charge.
- The on-site participation includes dinner, lunches, coffee/soft drinks.
- Online participation by web conference tool (Webex). Access data will be provided by email.
- Upon receipt of registration confirmation via email you are signed-up for the event.
- The proceedings will be distributed after the network meeting (and after release of the speakers).
- Further information (hotel list and maps) will be provided after registration and can be found on the ECPE web page.

## Organisational Information

**Organiser** ECPE e.V.  
90443 Nuremberg, Germany  
[www.ecpe.org](https://www.ecpe.org)

**Technical Contact** Prof. Leo Lorenz  
President of ECPE e.V.

Thomas Harder  
General Manager  
ECPE e.V.

**Organisation** Ingrid Bollens, ECPE e.V.  
+49 (0)911 / 81 02 88 – 10  
[ingrid.bollens@ecpe.org](mailto:ingrid.bollens@ecpe.org)

**Venue** Holiday Inn Munich – City Centre  
Hochstrasse 3  
81669 Munich, Germany



European Center for  
Power Electronics e.V.

## Hybrid Event

## Final Programme

### ECPE Network Meeting The Future of Power Electronics and Upcoming Energy-related Challenges

7 - 8 October 2021  
Munich, Germany



## ECPE Network Meeting

### The Future of Power Electronics and Upcoming Energy-related Challenges

7 – 8 October 2021  
Munich, Germany

The ECPE Network Meeting offers a networking platform for exchange and discussion of trends and strategic topics at a higher level within the ECPE power electronics community of Member companies and Competence Centres. This year's Network Meeting will address two thematic areas:

**I. The Future of Power Electronics incl. the Role of Artificial Intelligence (AI)**

What comes next after wide bandgap devices and fast switching as well as after efficient and compact converters?

What is the future role and impact of AI in Power Electronics?

**II. Potential and Limitations of Hydrogen and Fuel Cells**

Mobility and transport beyond the limits of battery electric solutions e.g. for buses, trucks or vessels

Grid services and large-scale energy storage to buffer the fluctuating renewable energies from PV and wind power to enable a successful energy transition

Role and importance of power electronics in the Hydrogen scenario

The Network Meeting will be held in the frame of the ECPE Annual Event 2021 in conjunction with the Meeting of the Project Coordination Committee of the ECPE Principal Partners and the General Meeting of ECPE e.V. Member companies.

The Award Ceremony for the Semikron Innovation Award and the Semikron Young Engineer Award is integrated in the ECPE Network Meeting.

**All presentations and discussions will be in English language.**

## Programme

Thursday, 7 October 2021

09:30 ECPE General Meeting  
- 12:15 (for Member company delegates only)

12:15 Start of Registration / Light lunch

**Topic: 'The Future of Power Electronics'**

13:15 **Opening and Welcome**  
Leo Lorenz, Thomas Harder, ECPE (DE)

13:30 **The Future of Power Electronics (I) in Power Supply Applications: VA Modelling of the Differential Power and its Application to Future Power Electronics**  
José A. Cobos, UPM Madrid (ES)

14:15 **The Future of Power Electronics (II) in Automotive & Aircraft Applications**  
Bernd Eckardt, Fraunhofer IISB (DE)

15:00 **Coffee break**

15:30 **The Future of Power Electronics (III) in Grid-related Applications**  
Rik DeDoncker, RWTH Aachen (DE)

16:15 **The Future Role of Artificial Intelligence in Power Electronics**  
Andreas Roskopf, Fraunhofer IISB (DE)

17:00 **Final Discussion**

17:30 **End**

17:45 **Award Ceremony: Semikron Innovation and Young Engineer Awards**

18:30 **End of 1<sup>st</sup> Day**

19:30 **ECPE Network Dinner**

## Programme

Friday, 8 October 2021

**Topic: 'Potential and Limitations of Hydrogen and Fuel Cells'**

09:00 **H<sub>2</sub>/FC in Mobility and Transport (I) for Trucks & Buses**  
Juergen Rechberger, AVL (AT)

09:45 **H<sub>2</sub>/FC in Mobility and Transport (II) in Marine Applications**  
Sami Kanerva, ABB (FI)

10:30 **Coffee break**

11:00 **H<sub>2</sub> for Large-Scale Energy Storage in Grid-related Applications**  
Alexander Tremel, Siemens Energy (DE)

11:45 **Final Discussion**

12:45 **Closing Words**

13:00 **Lunch**