

# Centre for Power Electronics Annual Conference

## Online 13 – 15 July 2021

[Register Here](#)



Engineering and  
Physical Sciences  
Research Council



UK Research  
and Innovation

The Centre for Power Electronics (CPE) Annual Conference on 13 - 15 July 2021 will bring together the Power Electronics, Machines and Drives Community to review the latest research and development that will impact the electric revolution. This blended online conference will feature live invited keynotes and presentations from leading academics and industrialists, views of the future demands for power electronics, machines and drives and presentations from Early Career Researchers in this exciting field.

### Research and Development Topics:

- Semiconductor and Passive Devices
- Packaging and Interconnection
- Converters, Electric Machines and Drives
- Control, Test and Reliability
- PEMD Related Applications

The CPE Conference aims to provide online delegates with an opportunity to learn from and network with leading power electronics experts and researchers as they share their experiences, developments and opportunities.

The three afternoon sessions will consist of a series of presentations (see below) and will include several opportunities to ask questions to the speakers, network with other attendees and interact with exhibitors.

### Registration for CPE 2021 Online

Delegates will receive a Conference Booklet containing details of the presentations and speakers and of the exhibitors. The presentations (audio/visual) and exhibitor materials will be available to download from the IMAPS-UK/CPE website after the event.

### Registration Prices for CPE 2021 Online

- Delegate (Industry and Academic) - £100
- IMAPS Member (UK and Worldwide) - £80
- Early Career Researcher (Academic, RA and Post-Doc) - £30
- Student (Undergraduate and Postgraduate) \* – Free

Prices shown are exclusive of VAT.

- \* - in applying for a free registration, you may be asked to provide evidence of your status and affiliation to a Higher Education Institute/University.

**Provisional Online Conference Agenda** (breaks will be included within the Agenda):

**Tuesday 13 July 2021**

**12:00** Enrolment and Introduction to Online Platform

**12:30** Welcome and Introduction to CPE

**12:45 Keynote Presentation:**

- [Professor Hirofumi Akagi, Tokyo Institute of Technology](#) - Power Converters

**13:30** Driving the Electric Revolution – Vision for the Future – [Dr Will Drury, DER, UKRI](#)

**14:00 CPE Tranche Two EPSRC Project Outcomes**

- [Switch Optimisation](#) – [Dr Peter Gammon, University of Warwick](#)
- [Reliability, Condition Monitoring and Health Management](#) – [Professor Layi Alatise, University of Warwick](#)

**15:10 Invited Speaker**

- [Dr Giorgia Longobardi, Cambridge GaN Devices](#) – GaN Devices

**15:40** Panel Discussion and networking

**16:30** Close

**Wednesday 14 July 2021**

**12:00** Enrolment and Exhibitions/Demonstrations

**13:00** Introduction to Day Two and Exhibitor Presentations

**13:10 Invited Speaker**

- [Professor Tim Green, Imperial College](#) - Grid with inverter-interfaced resources

**13:40** Plenary Industry Presentations

**14:20** Support for Early Career Researchers – EPSRC

**14:40** Career Talks and Panel Discussion

**15:15** Early Career Researchers Presentations

**16:15** Exhibitors, Posters and Mentor Rooms

**17:15** Close

**Thursday 15 July 2021**

**12:00** Enrolment and Exhibitions/Demonstrations

**13:00** Introduction to Day Three

**13:10 Invited Speaker**

- [Professor Jiabin Wang, University of Sheffield](#) - Electric machine reliability, motor drive

**13:40 CPE Tranche Two EPSRC Project Outcomes**

- [Multi-Domain Virtual Prototyping](#) - [Dr Paul Evans, University of Nottingham](#)
- [Heterogeneous Integration](#) – [Professor Lee Empringham, University of Nottingham](#)
- [Converter Architectures](#) – [Professor Xibo Yuan, University of Bristol](#)

**15:20 Invited Speaker**

- [Simon Price, Exawatt](#) - Market analysis for SiC devices, modules and systems, UK SiC supply chain

**16:00** Networking

**17:00** Close

**Further Information:**

Please contact the Centre for Power Electronics: e-mail: [correspondence@powerelectronics.ac.uk](mailto:correspondence@powerelectronics.ac.uk) or IMAPS-

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