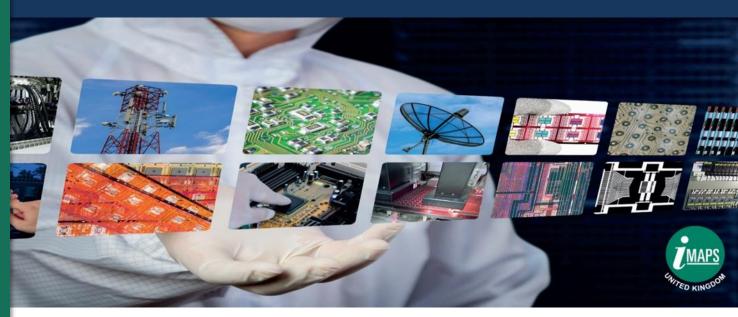
# **Centre for Power Electronics**



# Annual Online Conference: 13-15 July 2021 Call for VIDEO and POSTER PRESENTATIONS from EARLY CAREER RESEARCHERS



## Blended Online Conference – 13-15 July 2021

The Centre for Power Electronics (CPE) Annual Conference 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 Opportunities for Pursuing a Career in this exciting field.

As part of the remit for the continuation of the CPE activities to foster an **Active Academic Community**, part of the Conference programme will be dedicated to highlighting the work being undertaken by **Researchers** at an early stage in their career; giving the opportunity for presenting their research to an international audience and encouraging **Future Collaboration** with other **Universities** and **Industry**.

The CPE Conference Organising Team invites Abstracts from Early Career Researchers for Video and Poster Presentations which describe the latest advancements in Power Electronics, Electric Machines and Drives (PEMD).

Abstracts will be selected for **Video Presentation** during the CPE Conference and for **Poster Presentation** available for **Virtual Display**. **Awards** will be made to the **Best Video** and **Poster Presentations**.

### **Organising Committee**

Event Chair:	Xibo Yuan - University of Bristol	Secretariat: Steve Riches – IMAPS-UK Sarah Rogers – University of Bristol
Technical Committee:	Martin Wickham - NPL  Mark Johnson – University of Nottingham  Paul Huggett - KTN  Peter Gammon – University of Warwick	Lee Empringham – University of Nottingham Paul Evans – University of Nottingham Layi Alatise – University of Warwick

We invite submission of **Abstracts** in the following areas from Early Career Researchers:

Research and Development Topics: These will describe high-impact academic research relating to the conference topics, outlined below:

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





All abstracts received by the submission deadline will be evaluated by the technical committee. Abstracts covering a balanced range of the main conference topics will then be selected and invited to a Video Presentation (5 mins) which will be streamed during the Online Conference and others will be selected for a Poster Presentation (for Virtual Display/Discussion).

### **Conference Topics** Semiconductor and Packaging and Converters, Machines, Drives and **Control, Test and Reliability Passive Devices** Interconnection **Applications Power Converters** SiC Devices Die Attach Device Characterisation **GaN Devices Electric Machines and Drives Environmental Testing** Sintering Si Devices Wire/Ribbon **Converter Machine Integration** Lifetime and Reliability Bonding Prediction Wireless Power Transfer **Emerging WBG Devices Laser Welding** Degradation and Failure **Renewable Power Generation** Mechanisms Capacitors Encapsulation **Energy Storage and Management Switching Performance** Inductors **Embedding Devices** Renewables Grid Integration High Current and Voltage Resistors **Novel Materials** Super-conducting Machines and **Testing** Other Passive Thermal Converters Converter Topology and **Devices** Management Other PEMD Related Areas and Control **Applications**

Those wishing to present their work at the CPE Annual Conference 2021 should submit an abstract of no more than 200 words, electronically to: office@imaps.org.uk. For further information on the Centre for Power Electronics and its activities, please see: https://www.powerelectronics.ac.uk.

Deadlines			
Abstract submission (200 words + images in PDF format)	Friday 26 <sup>th</sup> February 2021		
Acceptance of Abstracts for Video and Poster Presentation	Friday 2 <sup>nd</sup> April 2021		
Confirmation of Intent to Submit Video or Poster Presentation	Friday 28 <sup>th</sup> May 2021		
Submission of Final Video and Poster	Friday 25 <sup>th</sup> June 2021		



Control of Electric Machines