

Annual Conference: 4-5 July 2023

Call for Abstracts from EARLY/MID CAREER ACADEMICS



Conference Venue: University of Nottingham – 4-5 July 2023

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 Conference will feature Invited Keynotes and Presentations from Leading Academics and Industrialists, views of the Future Demands for Power Electronics 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; to increase the visibility of early/mid career academics and their research, in the annual conference 2023, we will dedicate several plenary talks to early/mid career academics, e.g., lecturer/assistant professor, senior lecturer/associate professor.

The CPE Conference Organising Team invites **Abstracts** from **Early/Mid Career Academics** for **Oral Presentations** which describe the latest advancements in **Power Electronics and Drives**.

Up to 5 Abstracts will be selected for **Oral Presentation** during the CPE Conference.

Organising Committee

Event Chair:	Paul Evans - University of Nottingham	Secretariat: Steve Riches – IMAPS-UK Joe Gillett – University of Bristol
Technical Committee:	Xibo Yuan – University of Bristol Layi Alatise – University of Warwick Mark Johnson – University of Nottingham Peter Gammon – University of Warwick	Lee Empringham – University of Nottingham Neo Lophitis – University of Nottingham Phil Mawby - University of Warwick Martin Wickham - NPL



We invite submission of **Abstracts** in the following areas from Early/Mid Career Academics:

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 and Drives
- Control, Test and Reliability
- Power Electronics and Drives Related Applications



If you are an early/mid career academic and interested in giving a plenary talk, please submit an abstract. 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 make a **Plenary Oral Presentation** (25 mins) during the Conference.

Conference Topics

Semiconductor and Passive Devices	Packaging and Interconnection	Converters, Drives and Applications	Control, Test and Reliability
<ul style="list-style-type: none"> • SiC Devices • GaN Devices • Si Devices • Emerging WBG Devices • Capacitors • Inductors • Resistors • Other Passive Devices 	<ul style="list-style-type: none"> • Die Attach • Sintering • Wire/Ribbon Bonding • Laser Welding • Encapsulation • Embedding Devices • Novel Materials • Thermal Management 	<ul style="list-style-type: none"> • Power Converters • Electric Drives • Converter Integration • Wireless Power Transfer • Renewable Power Generation • Energy Storage and Management • Renewables Grid Integration • Super-conducting Converters • Other Related Areas and Applications 	<ul style="list-style-type: none"> • Device Characterisation • Environmental Testing • Lifetime and Reliability Prediction • Degradation and Failure Mechanisms • Switching Performance • High Current and Voltage Testing • Converter Topology and Control • Control of Electric Drives

Those wishing to present their work at the CPE Annual Conference 2023 should submit an abstract of no more than 200 words and a biography of up to 150 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 + 150 word bio)	Friday 16 th December 2022
Acceptance of Abstracts for Oral Presentation	Friday 13 th January 2023
Confirmation of Intent to Submit Oral Presentation	Friday 31 st March 2023
Submission of Final Oral Presentation	Friday 23 rd June 2023