

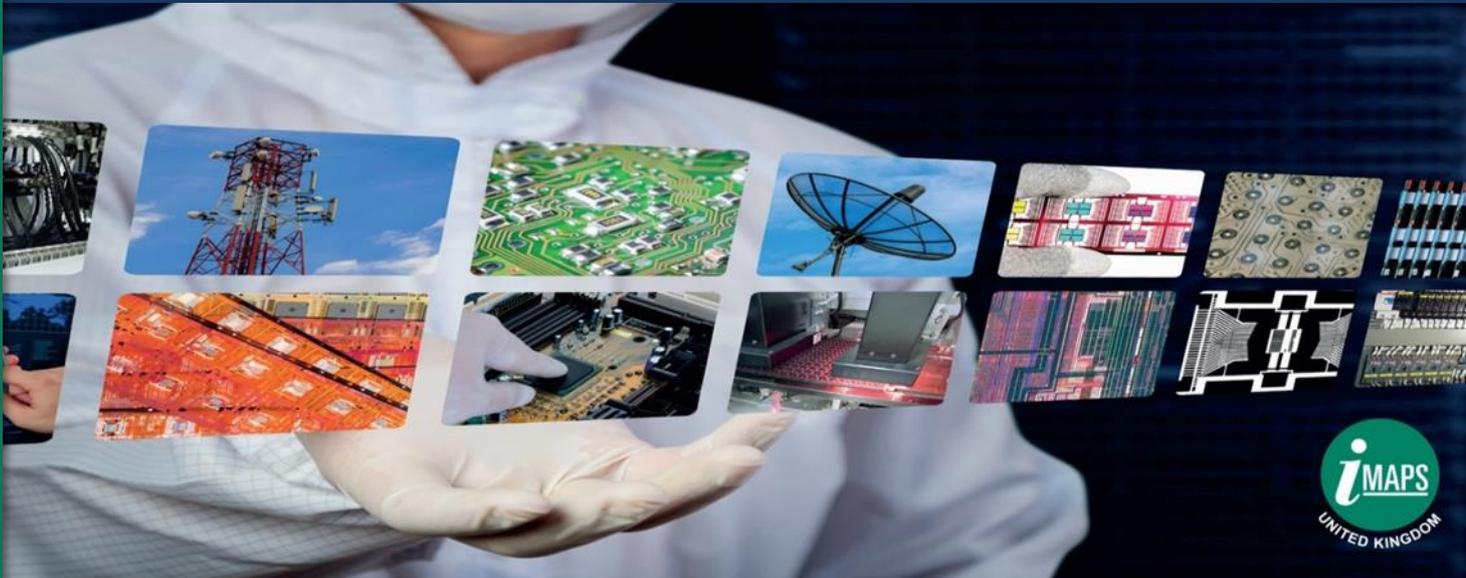
Centre for Power Electronics Annual Conference: Newcastle University

8-9 July 2024

Call for Posters:

Students and Post Doctoral Researchers

POWER
ELECTRONICSUK
Underpinning Research



Conference Venue: Civic Centre, Newcastle – 8-9 July 2024

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, 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 **Students (Undergraduate and Post-Graduate) and Post Doctoral Researchers** for **Poster Presentations** which describe the latest advancements in **Power Electronics, Electric Machines and Drives**. **Up to 6 Abstracts** from **PhD Students** will also be selected for **Oral Presentation** during the CPE Conference. **Prizes** will be awarded to selected **Poster and Oral Presentations**, sponsored by the **Centre for Doctoral Training in Sustainable Electric Propulsion**.

Organising Committee

Event Chair:	Volker Pickert – Newcastle University	Secretariat: Steve Riches – IMAPS-UK Joe Gillett – University of Bristol
Technical Committee:	Xibo Yuan – University of Bristol Layi Alatise – University of Warwick Xu Deng - Newcastle University Shafiq Odhano - Newcastle University	Paul Evans - University of Nottingham Peter Gammon – University of Warwick Martin Wickham - NPL



We invite submission of **Abstracts** in the following areas from Students and Post Doctoral 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 be selected for **Poster Presentation** in the Exhibition Area for the Conference. Up to **6 Abstracts** from **PhD Students** will also be selected for **Oral Presentation** in the Main Conference, each with a 5-10 minute presentation and opportunity for Questions and Answers.

Conference Topics

Semiconductor and Passive Devices	Packaging and Interconnection	Converters, Machines, 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 Machines and Drives • Converter Machine Integration • Wireless Power Transfer • Renewable Power Generation • Energy Storage and Management • Renewables Grid Integration • Super-conducting Machines and Converters • Other PEMD 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 Machines

Those wishing to present a Poster should submit a title and abstract of no more than 200 words electronically to : office@imaps.org.uk. Those submitting their Abstract as **PhD students** can indicate whether they would also like to be considered for an Oral Presentation.

Deadlines

Abstract submission (200 words)	Friday 23rd February 2024
Acceptance of Abstracts for Oral and Poster Presentation	Friday 28th March 2024
Confirmation of Intent to Present at CPE2024	Friday 26th April 2024
Submission of Final Oral and Poster Presentation	Friday 28th June 2024