

IMAPS-UK Technical Conference

“iPower4 – Powering the Future”

CALL FOR ABSTRACTS

IMAPS-UK Technical Conference



University of Nottingham – Thursday 24th November 2022

iPower4 – Powering the Future will address some of the most significant challenges to be faced by a wide range of electrical and electronic based industries in the next decade and beyond. Achieving reliable and fully functional products to market will require electronic and electrical packaging solutions that can operate at higher currents and voltages, faster frequencies and increased temperatures.

This conference will hear from OEMs, material and equipment suppliers and academia about the current and future solutions to meet these increasingly demanding requirements. Many of the solutions will be applicable to a wider range of different application areas and attendees can learn how other sectors are approaching the challenges and assess if they will be suitable to their own applications.

IMAPS-UK invites **Abstracts** which describe the latest advances in **electronic package design, materials, processes, next-level-integration and performance** while maintaining **reliability, sustainability, manufacturability and cost-competitiveness in Power Electronics for Transportation, Renewables and Energy Storage** applications.

iPower4 aims to provide the **Delegates** with an opportunity to learn from and network with **leading Industry Experts and Exhibitors** as they share their experiences, developments and opportunities.

Organising Committee

Event Chair:	Martin Wickham, NPL	
Technical Committee:	Andy Longford, John Boston, Scott Wood, Eamonn Redmond, David King	Secretariat: Steve Riches





Instructions for participation

We invite submission of abstracts in the following areas:

Research and Development Papers: These will describe high-impact academic/industrial research and development relating to the conference topics.

Technical Presentations: Technical presentations showcasing in-production or pre-production techniques relating to the conference topics.

Current/Future trends: Presentations demonstrating how markets related to the main conference topics are developing over time.

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 and invited to provide an **Oral Presentation** (20mins + 5 mins questions) during the conference.

Conference Topics – iPower4

Materials – Semiconductor and Passive Devices	Packaging and Interconnect	Performance, Testing and Reliability	Transportation, Renewables and Energy Storage
<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"> • Module Characterisation • Environmental Testing • Lifetime and Reliability Prediction • Degradation and Failure Mechanisms • Switching Performance • Recycling and Sustainability 	<ul style="list-style-type: none"> • Converters • Inverters • Charging Solutions • Batteries • Fuel Cells • Hydrogen • Ammonia

Those wishing to present their work at iPower4 should submit an abstract of 200 - 300 words, electronically to: office@imaps.org.uk

Deadlines

Abstract submission (200-300 words)	Friday 16th September 2022
Acceptance of Abstracts for Oral Presentation	Friday 30 th September 2022
Confirmed speaker biographies, portrait image and organisation logo	Friday 28 th October 2022
Final slide set	Friday 18 th November 2022