

# IMAPS-UK Technical Conference

## “iPower3 – Electronic Packaging for Net Zero”

# CALL FOR ABSTRACTS

IMAPS-UK Technical Conference



### Conference, The Midlands – Thursday 2<sup>nd</sup> December 2021

**Achieving Net Zero** will present some of the greatest challenges to be faced by a wide range of electrical and electronic based industries in the next decade. Getting 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 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 applicable 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 Generation, Conversion, Distribution and Energy Storage** applications.

**iPower3** 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

|                             |   |                                     |
|-----------------------------|---|-------------------------------------|
| <b>Event Chair:</b>         | Martin Wickham, NPL   |                                     |
| <b>Technical Committee:</b> | Andy Longford, Carolyn Short<br>John Boston, Scott Wood,<br>Eamonn Redmond, David Link,<br>Piers Tremlett | <b>Secretariat:</b><br>Steve Riches |





## Instructions for participation

We invite submission of abstracts in the following areas:

**Research and Development Papers:** These will describe high-impact academic research 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 – iPower3

| Materials – Semiconductor and Passive Devices   | Packaging and Interconnect   | Power Generation, Conversion and Distribution  | Energy Storage  |
|---|--|--|---|
| <ul style="list-style-type: none"> <li>• SiC Devices</li> <li>• GaN Devices</li> <li>• Si Devices</li> <li>• Emerging WBG Devices</li> <li>• Capacitors</li> <li>• Inductors</li> <li>• Resistors</li> <li>• Other Passive Devices</li> </ul> | <ul style="list-style-type: none"> <li>• Die Attach</li> <li>• Sintering</li> <li>• Wire/Ribbon Bonding</li> <li>• Laser Welding</li> <li>• Encapsulation</li> <li>• Embedding Devices</li> <li>• Novel Materials</li> <li>• Thermal Management</li> </ul> | <ul style="list-style-type: none"> <li>• Module Characterisation</li> <li>• Environmental Testing</li> <li>• Lifetime and Reliability Prediction</li> <li>• Degradation and Failure Mechanisms</li> <li>• Switching Performance</li> <li>• Recycling and Sustainability</li> </ul> | <ul style="list-style-type: none"> <li>• Batteries</li> <li>• Fuel Cell</li> <li>• Hydrogen</li> <li>• Ammonia</li> </ul> |

Those wishing to present their work at iPower3 should submit an abstract of approximately 200 - 300 words, electronically to: [office@imaps.org.uk](mailto:office@imaps.org.uk)

## Deadlines

|   |  |
|---|--|
| Abstract submission (200-300 words)                                 | Friday 10 <sup>th</sup> September 2021 |
| Acceptance of Abstracts for Oral Presentation                       | Friday 1 <sup>st</sup> October 2021    |
| Confirmed speaker biographies, portrait image and organisation logo | Friday 29 <sup>th</sup> October 2021   |
| Final slide set   | Friday 26 <sup>th</sup> November 2021  |

It is planned for the Conference to be a face-to-face event; however, if Government regulations change, IMAPS-UK may alter the event to an Online format.