

Announcement/Call for Abstracts

IMAPS 3rd Advanced Technology Workshop and Tabletop Exhibition on Automotive Microelectronics and Packaging

www.imaps.org/automotive

The Dearborn Inn, A Marriott Hotel
20301 Oakwood Boulevard
Dearborn, Michigan 48124 - USA
May 22 - 23, 2012

Abstract Deadline: March 9, 2012



Automotive electronic content continues to rise in vehicles every year. As content rises, microelectronic packaging will continue to play a larger role, as the automobile industry drives for electronics that are smaller in size, lower in cost, higher in content, and more reliable in harsh environments. This Advanced Technology Workshop (ATW) is focused on advanced developments in automotive electronic packaging. We are looking for presentations on advanced technologies that are pushing the envelope of automotive packaging, in the areas of systems & applications, design, and materials & processes. Your presentation may cover an advanced technology that you have or an advanced technology you need.

Program Co-Chairs:

Larry Rexing,

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Planned Sessions Include:

Systems & Applications

- ◆ Power / Powertrain Control
- ◆ Collision Avoidance and Safety
- ◆ X-by-Wire
- ◆ Driver Comfort / Information / Audio Systems
- ◆ Lighting / LED

Design

- ◆ Thermal and Power Management
- ◆ RF / mmWave / IR
- ◆ Harsh Environment
- ◆ MEMS and Sensors
- ◆ High Performance Interconnects
- ◆ Systems on Chip

Materials & Process & Testing

- ◆ Thermal and Power Packaging
- ◆ Sensor and MEMS Packaging
- ◆ Image Sensing and Packaging
- ◆ Advanced Interconnects, Connectors and Wirebonding
- ◆ Ceramic Substrates and Ceramic Technologies
- ◆ High Density and High Performance Organic Substrates
- ◆ Underfill / Encapsulants and Adhesives
- ◆ Solder Materials, Processes, and Reliability
- ◆ Flip-Chip and Bumping: Processes, Reliability
- ◆ Embedded and Integrated Passives
- ◆ Green Packaging / Compliance with RoHS
- ◆ Electrical / Functional Testing
- ◆ Thermal / Mechanical Reliability Testing

Those wishing to make a presentation at the Automotive Workshop, please submit a 250-300 word abstract electronically by **March 9, 2012**, using the on-line submittal form at: www.imaps.org/abstracts.htm. If you need assistance with the on-line submission form, please email Jackki Morris-Joyner (jmorris@imaps.org) or call 305-382-8433.

All abstracts submitted must represent advanced technology and can be unpublished work. The abstracts should highlight the application area, design, and process or material covered within the automotive industry. **Accepted abstracts may be considered for publication in the IMAPS Journal of Microelectronics and Electronic Packaging.**

No formal technical paper is required. A reproduction-ready two- to six-page concise summary (extended abstract) with text (figures and graphs included if necessary) will be required for the CD-ROM of proceedings on **April 20, 2012**. A post-conference CD-ROM containing the extended abstract and full presentation material as supplied by the presenter onsite will be distributed to all attendees. CDs are mailed 15 business days after the event. **All speakers are required to pay a reduced registration fee.**

If you are having problems with the on-line submittal form, please email Jackki Morris-Joyner at: jmorris@imaps.org or call 305-382-8433.

Student Competition sponsored by The Microelectronics Foundation:



The Microelectronics Foundation sponsors Student Paper Competitions in conjunction with all Advanced Technology Workshops (ATWs) and Conferences. Students submitting their work and identifying that **"Yes, I'm a full-time student"** on the abstract submission form, will automatically be considered for these competitions. The review committee will evaluate all student papers/posters and award at a total of \$1,500 in awards checks at the ATW/Conference. **The selected student(s) must attend the event to present his or her work and receive the award.** For more information on the student competition go to www.microelectronicsfoundation.org.

In addition, the Automotive Workshop was selected by the Foundation as a **2012 "Regional Contest"** site. The Foundation is awarding 3 students with the "best presentations" of the workshop: \$750 (1st place), \$500 (2nd), and \$250 (3rd). The first place winner will also be invited to submit their paper for IMAPS Annual Symposium - [IMAPS 2012 in San Diego](http://www.imaps.org/2012). The Foundation will cover the first place regional contest winner's travel to symposium as well as registration fees to allow them to compete at our annual Symposium for the higher society Awards. **We are opening this regional contest to ALL students accepted by the Automotive ATW.**