

Announcement and Call for Abstracts

IMAPS Topical Workshop on *Portable/Wireless Devices (PWD 2010)*

www.imaps.org/portable

This event will be co-located with IMAPS Mid-Atlantic Microelectronics Packaging Conference

June 17, 2010

Atlantic City Hilton

Atlantic City, New Jersey - USA

Abstract Deadline Extended: April 16, 2010

Technical Co-Chair: Dr. Ephraim Suhir University of California P: 650-969-1530 suhire@aol.com	Technical Co-Chair: Mr. Patrick Carberry Investment Pays Inc. P: 610-502-1126 patrickcarberry@verizon.net
Organizing Committee: Danko Antolovic, Avram Bar-Cohen, Ilker Bayer, Tim Buennemeyer, Phil Chan, Danilo DeRossi, Mario El-Khoury, John Emerson, Carlo Fischione, Reza Ghaffarian, Claire Gu, Timo Hamalainen, Ramesh Harjani, Avishay Helbitz, Vida Ilderem, Hideo Ito, Sundaresan Jayaraman, Jyrki Joutsensal, Kipp Jones, Jorma Kivilahti, Helge Kristiansen, Petri Mähönen, Toni Mattila, Wataru Nakayama, Johann Nicolics, Yoshifumi Nishida, Kanji Otsuka, Rohit Prasad, Petri Savolainen, Fortunato Santucci, Tong-Yan Tee, Ralph Wyndrum, Kishio Yokouchi, Qiang Yu	

Workshop Focus:

The objective of the 2010 Portable/Wireless Devices (PWD) Workshop is to bring together electrical, materials, mechanical, optical, reliability, packaging and manufacturing, as well as business leaders involved or interested in various types of portable and wireless devices, to address and discuss the state-of-the-art, challenges, attributes and pitfalls in these areas of electronics and packaging engineering. This workshop has been specifically organized to allow for the presentation and debate of some of the latest and hottest technologies out there related to design, fabrication, reliability and cultural-and-business aspects of the devices. Abstracts are being requested on, but are not limited to, the following topics:

- Functional (electrical, thermal, optical) and "physical" (mechanical) design-for-reliability
- Home entertainment devices & systems
- Predictive modeling
- Probabilistic approaches
- Experimental evaluations and testing
- Cellular phones
- Wireless devices,
- Wearable computers
- Hardware/software interaction
- Power generation, supply, conversion
- Role of human factor
- Man-machine communication
- Access to information
- Audio and video recognition and processing
- Implantable and imaging devices
- Biosensors
- MEMS
- Nanomaterials and nanotechnology
- Hearing/vision Aids
- Neurological devices
- Blood diagnostics
- Disposable electronics
- Biometric identification
- Wireless/RF telemetry
- Microfluidics
- Environmental aspects/constraints
- Biocompatible materials
- Reliability assessments
- Environmental durability
- Accelerated testing
- Qualification approaches
- RoHS compliance & regulations
- Economics and business issues
- Government/regulatory issues
- Homeland security related issues
- Outsourcing issues
- Impact on society

Four half-day tutorials (short courses) will be held on the day preceding the workshop. The workshop program will include keynote, invited and contributed presentations, and a panel discussion.

Those wishing to present a paper at the Portable/Wireless Devices Workshop must submit a 200-300 word abstract electronically **by April 16, 2010**, using the on-line submittal form at: www.imaps.org/abstracts.htm. Full written papers are not required; however, an extended abstract of 1-4 pages is due for accepted presenters no later than May 28, 2010.

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 least one student author with a \$1,000 check at the ATW/Conference. The selected student must attend the event to present his or her work and receive the award. The Foundation will return the registration fee for the winner. The winner must pay for travel and lodging expenses.

Please contact Jackki Morris-Joyner by email at jmorris@imaps.org or by phone at 202-548-4001 if you have questions.

Accepted papers may be considered for publication in the *IMAPS Journal of Microelectronics and Electronic Packaging*. **All Speakers are required to pay a reduced registration fee and are required to attend the entire event.**

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