



TO: MEPTEC/SMTA Medical Electronics Symposium Registrants and Participants

Date: Wednesday, September 26 & Thursday, September 27, 2011

**Time: Registration opens: 7:15 am
Symposium: 8:15 am – 5:00 pm**

Location: Arizona State University (Tempe Campus), Old Main building

This is your final confirmation for the Medical Electronics symposium to be held at the historic Old Main building on ASU's Tempe campus.

The following pages include the final symposium agenda (pages 1-4) along with location and parking instructions (page 5).

Registration will begin both days at 7:15 a.m. and the program will start promptly at 8:15 a.m. A Continental breakfast will be provided starting at 7:15 am.

We look forward to seeing you at the symposium. Please give MEPTEC a call at 650-714-1570 if you have any questions. Thank you!



AGENDA

Event: Medical Electronics Symposium
Date: September 26 & September 27, 2012
Location: Old Main building, Arizona State University, Tempe, Arizona

Day 1 – September 26

7:15 am **Registration opens**

8:15 am **Welcome and Introduction**

8:30 am – 9:00 am **Personal Health: Concepts Impacting Healthcare**
Keith Lindor, M.D., Executive Vice Provost for Health Solutions
Arizona State University

Session 1: Business Growth in the Medical Electronics Industry

Session Chair: Marco Santello, Arizona State University

9:00 am – 9:30 am **Flexible Electronics: Potential and Reality**
David R. Allee, PhD, Professor of Electrical Engineering, Director of R&D for
Backplane Electronics, Flexible Display Center, Arizona State University

9:30 am – 10:00 am **Navigating the commercialization path from discovery to market**
Ron G. King, Ph.D., Chief Scientific and Business Officer, BioAccel

10:00 am – 10:30 am **Medtech Insights: An Overview of Trends in the Medical Device Industry**
Heather Thompson, Editor-in-Chief MD+DI

10:30 am – 11:00 am **Break**

Session 2: Innovative Implantable Technologies

Session Chair: Randy Crutchfield, Medtronic

11:00 am – 11:30 am **Advanced Microelectronic Packaging Manufacturing Technologies for Handheld and Implantable Medical Devices**
Susan V. Bagen Business Development Manager
Endicott Interconnect Technologies, Inc.

11:30 am – 12:00 pm **An Implantable Microchip-based Drug Delivery System**
Norman F. Sheppard, Jr., MicroCHIPS, Inc.

12:00 pm – 12:30 pm **Custom IC's Enable the Use of Smaller and More Power Efficient Technologies in Medical Devices**
Andy Kelly, System/IC Architect, Cactus Semiconductor Inc.

12:30 pm – 1:30 pm **Lunch**

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Session 3: Emerging Trends in Components for Medical Electronics

Session Chair: Martin Birch, Microsemi

- 1:30 pm – 2:00 pm **Applying Consumer RF Multi-Layer Ceramic Capacitor Technology to Portable Medical Devices**
Mark R. Laps, Electrical Test Engineer, KEMET Corporation
- 2:00 pm – 2:30 pm **Ultra low-power wireless technology for bio-sensors and energy harvesting**
Reghu Rajan, Technical Marketing, Microsemi
- 2:30 pm – 3:00 pm **Innovations in Interconnects and Cabling Enabling Highspeed Solutions for Medical Electronics**
Charles Staley, Market Development Manager, 3M Electronic Solutions Division
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3:00 pm – 3:30 pm **Break**

Session 4: Requirements Beyond Electronics to Bring a Product to Market

Session Chair: Guna Selvaduray, San Jose State University

- 3:30 pm – 4:00 pm **Application of Human Factors to Medical Device Design**
Abe Mamaghani, Manager Development R&D, Abbott Diagnostics
- 4:00 pm – 4:30 pm **Risk Analysis and Risk Management of Medical Devices**
George Nio, Director, Business Development, APOMed Consultants
- 4:30 pm – 5:00 pm **Reimbursement for Medical Products: Ensuring Marketplace Success by Securing Coverage and Payment**
Christopher J. Panarites, Ph.D., Abbott Vascular

****** See next two pages for September 27 agenda ******

Day 2 – September 27

- 7:15 am **Registration opens**
- 8:15 am **Welcome and Introduction**
- 8:30 am – 9:00 am **Trends in 3D Micro-Packaging for Emerging Implantable Applications**
Livia Racz, Ph.D., Draper Laboratory
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Session 5: Medical Standards, Regulatory & Compliance - Meeting Global Requirements

Session Chair: Erik Jung, Fraunhofer IZM

- 9:00 am – 9:30 am **First Line of Defense Against Counterfeits**
Robb Hammond, American Electronic Resource, Inc.
- 9:30 am – 10:00 am **RoHS Recast – Medical Devices are in Scope**
Krista Crotty, Alberi EcoTech
- 10:00 am – 10:30 am **Leveraging Existing Market Knowledge to Ensure a Successful Transition to Pb-Free Medical Products**
Randy Schueller, Ph.D., DfR Solutions
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10:30 am – 11:00 am **Break**

Session 6: Integrating Process Excellence into Design Control

Session Chair: Dale Lee, Plexus

- 11:00 am – 11:30 am **Moving Towards Supplier-Owned Quality**
Lisa Bobich, Ph.D., Medtronic
- 11:30 am – 12:00 pm **Cleaning Medical Electronic Assemblies**
Mike Bixenman, DBA, Kyzen Corporation
- 12:00 pm – 12:30 pm **Statically Charged Printed Wiring Board Electrostatic Discharge Events**
Jay Hamlin, P.E., Medtronic
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12:30 pm – 1:30 pm **Lunch**

Session 7: Advanced Medical Electronics Packaging Technology

Session Chair: Don Banks, St. Jude Medical

- 1:30 pm – 2:00 pm **Reliability Testing of Electronic Circuits Using IST**
Bill Birch, PWB
- 2:00 pm – 2:30 pm **Antimicrobial Parylene Technology for Medical Electronics and Other Devices**
Rakesh Kumar, Ph.D., Specialty Coating Systems, Inc.
- 2:30 pm – 3:00 pm **Innovative PCB Solutions Used in Medical and Other Devices**
Michael Sorger, Optiprint
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3:00 pm – 3:30 pm **Break**

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Session 8: The Future of Medical Electronics Systems

Session Chair: Krista Crotty, Alberi EcoTech

3:30 pm – 4:00 pm **Compact Antenna for Medical Wireless Communications Applications**
Patrick Gormally, Vishay Intertechnology

4:00 pm – 4:30 pm **Microtechnology for the HighTec Medical Industry**
Erik Jung, Fraunhofer IZM

4:30 pm – 5:00 pm **Closing Technology Gaps for the Medical Electronics Industry**
Chuck Richardson, iNEMI



**MEPTEC/SMTA MEDICAL ELECTRONICS SYMPOSIUM
SEPTEMBER 27-28, 2010
ARIZONA STATE UNIVERSITY**

Parking and Location Information

PARKING

Parking spaces have been reserved for MEPTEC attendees in the Fulton Center Structure across University Avenue from Old Main. The Fulton Center Structure is located at about D-3 on the campus map: http://www.asu.edu/map/pdf/asu_map_tempe_2011.pdf.

- Please enter the structure through the College Ave. entrance.
- Please try to arrive by 7:30 am and no later than 8:30 am (at 8:30 spaces will be released to the public). Please see the map link for other parking options, or consider taking a taxi. It may take 15-20 minutes or so to park and walk to Old Main, so please plan accordingly. **The program starts promptly at 8:15 a.m.**
- For details regarding the use of the Fulton Center structure, please go to: http://www.asu.edu/parking/pdf/ASUF_Instructions.pdf. Note you will need to park on levels one and two.
- **Payment is due before exiting the structure.** Upon departure, before returning to your car, you need to bring your ticket and payment to the attendant's booth on the south side of the structure to obtain a card permitting you to exit. This booth is not accessible by vehicle. After obtaining this card from the attendant you will have 10 minutes to locate your vehicle, drive to an exit, and insert the card to raise the gate arm.
- The parking fee is \$3.00 per hour or \$12.00 per day maximum. **CASH ONLY IS ACCEPTED.**

OLD MAIN LOCATION

The site of the symposium, the Old Main Building, is located on the Tyler Mall. On the map you will see Old Main is located just across University Drive, at about 4-1/2 and D on the map axis. It is marked "Main".