2014 Medical Electronics Conference: September 18

7:30am - 8:25am
Registration / Networking / Breakfast - Hawthorne Room

8:25am - 8:30am
Welcome

8:30am - 9:15am
Session 1: Three-Dimensional Circuit Boards for New Products
Kirkendall Voiding in 3D/2.5D Assembly Microjoints
Peter Borghesan, Ph.D., SMT Binghamton

Environmental Compliance Reporting – Mastering a Moving Target
Peter Robinson, Total Parts Plus

Session 2: Noble Metal PCB Manufacturing for Direct Implants
Paul Dobson, Dysonex AG

Design Guidelines for Cleaning Medical Electronic Circuitry with a Batch Process
Mike Raven, Eison Corporation and Dale Lee, Pense Corp.

Midfield Wireless Energy Transfer
Ada Poore, Stanford University

10:00am - 10:30am
Coffee & Exhibitor Break

11:15am - 1:30pm
Welcome

11:45am - 12:15pm
Session 4: Design and Manufacturing of Wearable Human Performance Monitors
Mark Polk, SUNY Binghamton

Emerging Trends in Medical PCBs
Robert Tulman, Ethik

Medical Electronics Digital Factory
Matt Williams, Micro-Systems Technologies

Connecting the Human Nervous System to Machines
Nanji Johi, UC Davis

11:15am - 1:30pm
Session 5: Three-Dimensional Circuit Boards for New Products

Three-Dimensional Circuit Boards for New Products
Stephen Krause, LNP Laser & Electronics

Ion Chromatography in Medical Device Manufacturing
Denalcy Alves, Micro Systems Engineering

Next Generation, Highly Flexible, Tissue Friendly Neural Interface Electrodes
BBJ Carroll, Nanolandia AB

12:15pm - 1:30pm
Lunch & Exhibitor Break

1:30pm - 2:15pm
Session 7: Emerging Trends in Medical PCBs

Why Testing Matters – How your Test Strategy Decisions Impact the Reliability and Cost of Manufacturing Medical PCBs
Alan Allsbrooks, Teradyne

Medical Electronic Products Benefit from Combined IC and SMT Assembly Processes
Brian Riley, Promex Industries

Panel Discussion: What’s Next on the Horizon?

2:30pm - 3:00pm
Coffee & Exhibitor Break

3:30pm - 4:00pm
Session 8: Qualification Methods for Portable Devices

Qualification Methods for Portable Devices
John McNulty, InEMI

Designing and Manufacturing of Medical Memory
John McNulty, InEMI

Reproduction & CMOS: Ultra Low Power Fertility Monitor
Reid Wender, Triad Semiconductor

3:30pm - 4:00pm
Session 9: Microstructure and Reliability Studies of Mixed Soft and Pb-Free BGA Soldering

Microstructure and Reliability Studies of Mixed Soft and Pb-Free BGA Soldering
Ken Kramer, Ph.D., Micro Systems Engineering

Implantable Medical Electronics Working Group Findings
John McNulty, InEMI

Design of a Miniaturized Neurostimulator Based On Anatomical Placement And Imaging Constraints
Ryan Powell, Autonomic Technologies, Inc.

4:30pm - 5:00pm
Exhibitor Reception

4:30pm - 5:00pm
Session 10: Ion Chromatography in Medical Device Manufacturing

Application of the Second Generation of SACM in Both Solder Sphere and Solder Paste
Hong-Chen Lee, Ph.D., Indium Corporation

IMC Coating Analysis at Room and High Temperature
Hubert Landry, XR Wavetek

Implantable Medical Electronics Working Group Findings
John McNulty, InEMI

5:00pm - 7:00pm
Exhibitor Reception

2014 Medical Electronics Conference: September 19, Day Two Agenda

7:30am - 8:30am
Registration / Networking / Breakfast - Hawthorne Room

8:30am - 9:15am
Session 11: Small to Mid Quantity IDGA Package Line for Active Medical Implants: Conception, Implementation and Challenges
Raben-Petronio, Ph.D., Micro Systems Engineering GmbH

Functional Clones – the most dangerous NEW counterfeit threat facing Medical Industry manufacturing today
Tom Sharp, SMT Corporation

Medical Electronics Digital Factory
Matt Williams, Micro-Systems Technologies

MEMS Devices for Medical Applications
Ramesh Ramadoss, Micromed Product Group, Form Factor, Inc.

9:30am - 10:00am
Session 12: Improving the Human Condition with Advanced Packaging and Microelectronic Solutions

Improving the Human Condition with Advanced Packaging and Microelectronic Solutions
Rex Anderson, Ph.D., ITI International

Medical Electronic Products Benefit from Combined IC and SMT Assembly Processes
Brian Riley, Promex Industries

Mems Devices for Medical Applications
Ramesh Ramadoss, Micromed Product Group, Form Factor, Inc.

10:00am - 10:30am
Coffee & Exhibitor Break

11:15am - 12:15pm
Session 13: Medical Electronic Products Benefit from Combined IC and SMT Assembly Processes

Component Level Specification Development Methodology For Medical Device Applications
Dipta Dey, Ph.D., CAGE University of Maryland

Wearable Medical Devices: What Fails & Why?
Cheryl Tulloch, DFR Solutions

Panel Discussion: What’s Next on the Horizon?

11:45am - 12:15pm
Assessment of Reliability Standards and Test Methods for Implantable Medical Electronic Devices

Assessment of Reliability Standards and Test Methods for Implantable Medical Electronic Devices
Matt Rekow, ESL

Wearable Medical Devices: What Fails & Why?
Cheryl Tulloch, DFR Solutions

Lunch - InEMI Panel Discussion