

## **IMD 2012** Introduces a New Program on

### Advancements in Medical Electronics

September 19-20, 2012

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Chicago, Illinois, USA

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## **IMD 2012 Call for Papers/Presentations**

**Abstracts Due February 23, 2012**

*Email Abstracts and Biographies to info@imdexpo.com*

**Papers Due May 24, 2012**

**Presentation Due August 16, 2012**

The technical committee of IMD Expo 2012 cordially invites you to participate in interdisciplinary symposium sessions at the IMD EXPO 2012 to be held in Chicago, Illinois, USA , September 19 - 20, 2012. Abstracts are due February 23, 2012, and we are accepting both lecture and poster submissions.

The abstract and presentation must be non-commercial in nature and emphasize the advancement of medical device technology from design, development, to manufacture.

An abstract of at least 250 words is required. Please include your contact information - address, phone, email address and email all information to info@imdexpo.com

## **Advancements in Medical Electronics**

This session will focus on design, development, reliability and safety aspects of medical electronics.



**Rakesh Kumar, PhD**

**Specialty Coating Systems, Vice President of Technology**

### **Session topics include but not limited to :**

- Advances in New Materials & Design
- Miniaturization of Medical Electronics
- Chip & Package Level Manufacturing
- Implantable Electronic Devices
- Components and Systems Assembly
- Product Reliability, Safety & Regulatory Requirements
- End Product Applications
- Flexible Medical Electronics
- Medical Electronics Market Advancement

## **Advances in Materials, Applications, & Processing**

This session focuses on Biomaterials, Characterization, & Processes



Yunbing Wang, PhD  
Abbot Vascular



Andreas Ornberg, PhD  
St. Jude Medical Inc.



Nelson Cooke, PhD  
DSM PTG

#### **Biomaterials:**

- Biomedical Alloy Based (Stainless steels, Titanium alloys, Cobalt-Chromium alloys, Nickel-Titanium alloys, noble and others)
- Polymers
- Ceramics
- Coatings
- Nanomaterials
- Other non-ferrous materials

#### **Characterization:**

- Modeling
- Fatigue
- Strength
- Engineering
- Testing
- Fatigue Life and Durability of Medical Implants
- Corrosion

#### **Processes:**

- Fabrication Processes
- Effect of Materials on Surgical Techniques
- Surface Engineering of Medical Devices
- Imaging Compatibility and Visibility of Medical Devices related to X-ray, MRI and Ultrasound
- Active Implant Materials
- Regulatory Affairs Related to Materials
- Welding
- Cutting
- Forming

## **Medical Device Design & Development**

This session focuses on Device Design, Engineering, and Regulatory Issues



Tom KraMer, BFA, IDSA  
Kablooe Design



Richard Bianco  
University of Minnesota



Carmelo Panetta, MD  
Park Nicollet Heart & Vascular Center

- CAE
- Modeling & Simulation
- Design
- Ergonomics & Human Factors
- Cardiovascular
- Neuro- Engineering
- Orthopedics
- Urologic
- Tissue Engineering
- Regulatory
- Mechanical Heart Valves and new anticoagulation therapy - will this revise the use of these very effective devices?
- Percutaneous aortic valves and the incidence of stroke - is the game changing?
- The International Regulatory climate - ISO and FDA harmonization - fact or fiction
- Stem cell - what is the legal status and what is new in this area?

**For Exhibit and Sponsorship opportunities contact:**

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