

## *2009 Fall AdCom Committee Report*

### **Technical Committee on Therapeutic Systems and Technologies (TC-TST)**

#### **1. Activities conducted Spring 2009 – Fall 2009**

- a. The TC-TST has actively worked with the Organizing Committee EMBC 09, Minneapolis, to finalize the structure of Themes 09: Therapeutic & Diagnostics Systems, & Medical Device Design and 11: Technology Commercialization, Industry, Education, and Society. TC-TST members Drs. John Pearce, Dieter Haemmerich and Dorin Panescu volunteered to chair tracks and sessions part of these two Themes.
- b. The TC-TST web site has been maintained and updated accordingly. The Committee wants to recognize the active effort put into maintaining the web site by Drs. Punit Prakash and Dieter Haemmerich.
- c. The Committee finalized the third Industry-Academia Partnership symposium at EMBC 2009. This activity is a continuation of the first and second such symposia held at EMBC 2006 and EMBC 2008. A Panel of members of the Academia and Industry communities will discuss:

#### **'Benefits and Pitfalls of University - Industry Collaborations'**

The rapid growth in development and deployment of medical devices in the past decades has been fueled by efforts in both industry and academia. Nevertheless, often research in academia does not find its way towards commercialization due to a number of different hurdles. In this minisymposium the relationship between academia and industry related to development and commercialization of medical devices will be discussed from both viewpoints. Differences in culture, issues related to intellectual property and licensing, and suggestions for furthering collaboration between the two entities will be presented. Prominent members from major universities and medical device companies will present their viewpoint on these issues.

Chairs:

Dr. Dieter Haemmerich, MUSC

Dr. Wayne McDaniel, University of Missouri

Presenters and Agenda:

- Nitish Thakor, PhD, Professor of Biomedical Engineering, Johns Hopkins University

*- Academic Entrepreneurs - Taking Research from Bench to Bedside*

- Mark Kroll, PhD, Chairman Board of Directors, Newcardio, Inc.

- *Bridging the Philosophical and Patent gaps*
- John Pearce, PhD, Professor of Electrical and Computer Engineering, University of Texas at Austin
  - *Academic / Industrial Partnerships: Issues and Strategies*
- John Keimel, Senior Director, Research & Business Development, Medtronic Neuromodulation
  - *A comparison of large and small company collaborations with academia*
  - *the long and the short of it*
- Yongmin Kim, PhD, Professor of Bioengineering, University of Washington at Seattle
  - *Joys and Tribulations of Translational Research in Academia*

## **2. Planned activities Fall 2009 – Spring 2010**

Expand IEEE EMBS activities related to medical product development and partner with other EMBS groups interested in this topic.

This year's EMB Conference has a very strong medical product development agenda. Many important topics will be covered by speakers with broad and proven expertise. The TC-TST will make every effort to build on this momentum with the goal of enlisting core competencies that will ensure continuity of these activities at future EMB Conferences.