

# 3<sup>rd</sup> IEEE-EMBS International Summer School and Symposium on Medical Devices and Biosensors (ISSS-MDBS)

Theme: "Wearable Body Sensor Networks and E-Textile Solutions for M-Health"



Summer School: Sept. 4-5, 2006    Symposium: Sept. 5-6, 2006

Venue: Harvard-MIT Division of Health Sciences and Technology,  
Massachusetts Institute of Technology, Cambridge, Boston, MA, USA



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#### Conference Co-Chair:

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## Final Announcement

Following the success of the previous international summer schools, the 3<sup>rd</sup> ISSS-MDBS, sponsored by IEEE Engineering in Medicine and Biology Society, will be held at MIT, USA from Sept. 4-6, 2006. Innovative technologies in MDBS have been recently introduced to allow continuous monitoring of patient status in the home and community settings. The school will offer tutorial presentations and hands-on experience to familiarize attendees with emerging solutions in body sensor networks and e-textile for wearable medical devices. In addition, the combined symposium will provide participants with opportunities for presenting their work. By attending the three-day meeting, researchers and professionals will gain knowledge on the state-of-the-art of wearable sensor networks and e-textile solutions and their applications in m-health.

### *Highlighted Programs:*

1. **Body Sensor Networks:** Recent advances in BSN aim to gather data unobtrusively from wearable biomedical and biochemical sensors. BSN technologies can be used to monitor physiological, physical, biochemical, emotional, and sensorial status of individuals over extensive periods of time.
2. **E-Textile for Wearable Medical Devices:** Emerging e-textile technologies have gained the interest of researchers in academia and industry as well as groups of professionals. Recent work has led to new e-textile materials and new ways to integrate e-textile solutions in medical devices.

### *Topics and Invited Lecturers/ Keynote Speakers:*

1. E-health, p-health, m-health      *Prof. Jean-Claude Healy, World Health Organization*
2. Sensing technology      *Prof. John Webster, University of Wisconsin-Madison*
3. Body sensor networks      *Prof. Joe Paradiso, Massachusetts Institute of Technology*
4. EU research on wearable and e-textile      *Dr. Andreas Lymberis, European Commission*
5. Wireless communication      *Prof. Matt Welsh, Harvard University*
6. E-textile medical devices      *Prof. Danilo De Rossi, University of Pisa*
7. E-textile systems      *Prof. Harry Asada, Massachusetts Institute of Technology*
8. Home monitoring      *Prof. Stephen Intille, Massachusetts Institute of Technology*
9. Applications in cardiology      *Prof. Ary Goldberger, Harvard Medical School*
10. Wearable system integration      *Prof. Emil Jovanov, University of Alabama in Huntsville*
11. Motion detection in the clinical setting      *Prof. Toshiyo Tamura, Chiba University*
12. Applications in rehabilitation      *Prof. Paolo Bonato, Harvard Medical School*

### *Panel Discussion about Standards on Wearable Medical Devices:*

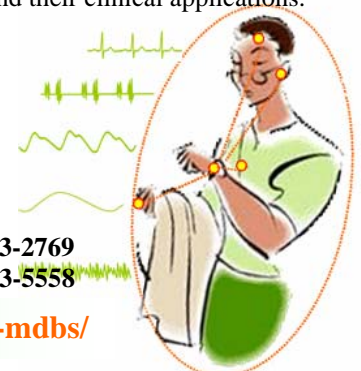
*Dr. C.C. Carey, US Food and Drug Administration (FDA)*  
*Prof. Y.T. Zhang, The Chinese University of Hong Kong*

### *Who Should Participate:*

1. Junior faculty members, researchers, and students with an interest in biomedical engineering and healthcare delivery.
2. Researchers and engineers from private and public sectors with interest in the latest emerging technological developments in medical devices and their clinical applications.

### *Important Dates:*

Paper Submission Extended Deadline: June 16, 2006  
Notification of Paper Acceptance: June 23, 2006  
Registration Deadline: June 30, 2006



For more information, please contact

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WWW Information Updates:

<http://bme.ee.cuhk.edu.hk/iss-mdb/>