

# IEEE EMBS



# EMB

IEEE ENGINEERING IN  
MEDICINE & BIOLOGY

## Implementing synergies in Biomedical Engineering

### A short workshop with special guests: Bin He and Laura Wolf

Biomedical Engineering richness stems from the synergetic interplay of a broad generous array of research fields. Spanning Engineering, physics, chemistry, medicine and biology. The need for a more cohesive and symbiotic approach is addressed in this short workshop which hopefully will set a trend to follow and also identify and alert some of the key players like IEEE, Universities, Research & Entrepreneurship Foundations and Industry. We are honored to receive the IEEE EMBS President and Director, Prof. Bin He and Laura Wolf, and we invite you to join us on this short academic event with the following

#### Program:

##### Welcome Address

- 14h00 "Biomedical Engineering Program at IST/FMUL" by **Prof. Paulo Freitas**

##### Short Technical Communications on Biomedical Imaging

- 14h30 "Towards Quantitative Functional Imaging of the Brain" by **Prof. Patricia Figueiredo**
- 14h40 "Tissue Characterization by Image Analysis for Diagnostic Purposes" by **Prof. João Sanches**

- 14h50 "Light Microscopy in Living Cells" by **Dr. José Rino**

##### Short Technical Communications on Biomechanics

- 15h00 "Fracture Risk and Bone Biomechanics" by **Dr. Ana Rodrigues**
- 15h15 "Qualitative Analysis of the Osteoporotic Bone" by **Dr. Luís Santos**

##### Coffee Break

##### Life Science Programs

- 15h45 "External Programs in Life Sciences at IST" by **Prof. José Santos Victor**
- 16h00 "MIT-Portugal Program on Bioengineering Systems" by **Dr. Frederico Ferreira**
- 16h15 "Symbiotic Nature of Research between Medicine and Engineering" by **Prof. Fernando Lopes da Silva**
- 16h30 "The Medical Perspective" by **Prof. Alexandre Ribeiro**
- 16h45 "EMBS and Neuroengineering" by **Prof. Bin He (EMBS Chairman)**
- 17h25 Questions and queries : By **Laura Wolf (EMBS Executive Director)**
- 17h35 "Prospective role of Portuguese IEEE EMBS Chapter" by **Carlos Fortunato (EMB Chair)**
- 17h45 "Life Sciences at IST" by **Prof. António Cruz Serra (IST President)**
- 18h00 Closing

#### Space is limited

To reserve your seat,  
please send an e-mail to  
cfortunato@ieee-pt.org

For details, visit:  
<http://go.ieee-pt.org/embs/>

Join us and contribute to the success of this event!

**Date:** June 11<sup>th</sup>, 2010 **Time:** 14:00 to 18:00

**Venue:** Instituto Superior Técnico, Alameda Campus

Centro de Congressos do IST