

Bio-Engineering Systems & Engineering Design and Advanced Manufacturing
 focus areas present

Workshop on Medical Devices

University of Minho, Braga, Campus de Gualtar, A1 Auditorium, May 30-31

Day 1

08h30-09h00: Registration

09h00-09h30: Opening Session (Manuel Mota, Paulo Ferrão, Teófilo Leite)

09h30-11h00: **Session 1: Product development / regulation** (Chairman: Manuel Mota, Co-Chairman: Teófilo Leite)

- Meghan Dierks (Assistant Professor of Medicine, Harvard Medical School and Beth Israel Deaconess Medical Center): **Balancing regulatory effectiveness, enterprise and innovation: US perspectives**
- Cláudia Vaz (R&D Manager for DSM Dyneema Medical, Netherlands): **Product Development Process for the Medical Device Industry**

11h00-11h30: Coffee-Break

11h30-13h00: **Session 2: Clinical Economics** (Chairman: Stan Finkelstein, Co-Chairman: Joaquim Cabral)

- Terry Young (Chair of Healthcare Systems, Brunel University, UK): **Valuing medical technology**
- Isabel Vaz (CEO Espírito Santo Saúde, APHP, Portugal), **Medical Device Management – a Private Hospital Perspective**
- Stan Finkelstein (Senior Research Scientist, MIT Engineering Systems Division and Harvard-MIT Division of Health Sciences and Technology): **A Framework to Evaluate Biomedical Devices**

13h00-14h30: Lunch-Break

14h30-16h30 **Session 3: Economic development** (Chairman: Secretary of State, Prof Manuel Heitor; Co-Chairman: Prof Daniel Wang, MIT)

- I-Ching Wu (President, ICBiotech, Inc.): **Insights into National Biomedical Device Industry Development Strategy of Emerging Players**
- Isabel Rocha (UMinho, MIT Bio-Teams): **The experience of Portuguese I-teams**
- Joaquim Cunha (CEO Medical Device Cluster): **HCP - Health Cluster Portugal**

16h30-17h00: Coffee-Break

17h00: Visit to the Exhibition

18h00: Climbing Demonstration by Hugh Herr

Day 2

09h30-11h30: **Session 4: Innovative Technologies on Medical Devices** (Chairperson: Dava Newman; Co-Chairman Manuel Nunes da Ponte)

- Dava Newman (Professor, Department of Aeronautics and Astronautics and Engineering Systems, MIT): **Designing Human-Machine Systems for Extreme Environments**
- Hugh Herr (MIT MediaLab MIT-Harvard Division of Health Sciences and Technology): **The Importance of Neuromechanical Limb Models in the Design of Leg Prostheses and Orthoses**
- Jorge Correia Pinto (UMinho, School of Medicine): **NUSS procedure for Pectus excavatum repair: the advantages of a Portuguese patent application**
- Luís Rocha/António Cunha (UMinho, School of Engineering, EDAM-MIT program): **Medical devices: Opportunities and challenges in advanced micro-manufacturing**
- Braz Costa (IAPMEI Board, Member of the Steering Committee on Drug Development): **Public Support to Innovation on Medical Devices**

11h30 Closing session (João Sentieiro, Manuel Mota, António Cunha, Stan Finkelstein)

12h00 Farewell Coffee

Sponsors:
Ministry of Science, Technology and Higher Education (MCTES)
Instituto de Apoio às Pequenas e Médias Empresas e à Inovação (IAPMEI)
Associação Portuguesa da Hospitalização Privada (APHP)
Steering Committee on Drug Development