

## MEDICAL PHYSICS WORKSHOP 2009 - MPW'09

### Friday, May 8

- 8:45 Reception  
9:15 Opening Session  
**RADIATION THERAPY**  
**Chairpersons:** Maria do Carmo Lopes and Joana Lencart  
9:35 Fridjof Nüsslin (Technische Universität München; IOMP Vice-President)  
[Molecular Imaging in Radiotherapy - what does it mean for the Medical Physicist?](#)  
10:15 João Seco (Harvard Medical School & Massachusetts General Hospital, MA, EUA)  
[Intensity Modulated Therapy with protons, electrons and photons](#)  
10:35 Margarida Fragoso (Henry Ford Health Systems, Detroit, MI, USA)  
[Monte Carlo treatment planning for photon and electron beams](#)  
10:55 **Coffee break**  
11:10 Networking (Hospitals, Academia, Industry)  
11:25 Adérito Chaves (Clinica CROASA, Málaga, Spain)  
[Thomotherapy: Setting it up for Treatments](#)  
11:45 Brígida Ferreira (IPOC, Univ. Aveiro)  
[Clinical implementation of IMRT for Head and Neck](#)  
12:05 Rita Figueira (HSJ, Porto)  
[Implementing a Quality Control Protocol for Prostate IMRT](#)  
12:25 Luis Madureira (Medical Consult)  
[Radiosurgery with Gamma-Knife](#)  
12:45 **Lunch**
- RADIATION THERAPY (cont.)**  
**Chairpersons:** Fernanda Ponte and Carlos Marcelino  
14:20 Sandra Vieira (VU Medisch Centrum, Amsterdam)  
[Quality Assurance in advanced radiotherapy techniques](#)  
14:40 Carlos Rodrigues (AQUILAB)  
[Quality Assurance in IGRT](#)  
15:00 Filipa Vinagre (HUC)  
[Image Registration for Radiotherapy Treatment Planning](#)  
15:20 Carlos Jesus (HSM)  
[New trends in Brachytherapy](#)  
15:40 Carla Alves (IPOC)  
[Anatomy-Based Inverse Optimization Algorithms for HDR Prostate Brachytherapy](#)  
16:00 **Coffee break**  
16:15 Networking (Hospitals, Academia, Industry)  
**RADIATION PROTECTION**  
**Chairpersons:** J.J.Pedroso de Lima and Teresa Rézio  
16:30 Bernard Aubert (IRSN)  
[French regulation in RP and role of the public expert body\(IRSN\) in medical field.](#)  
17:10 Maria Carmen de Sousa (ESSUA)  
[The role of the Medical Physicist in the optimization of the protection of the patient](#)  
17:30 João Alves (ITN)  
[EU-Trimer : New technical recommendations for individual monitoring of external radiation](#)

### Saturday, May 9

- MEDICAL IMAGING**  
**Chairpersons:** Amália Nogueira and José Afonso  
9:00 Renato Padovani (EFOMP Secretary)  
[Patient and Staff Protection in Interventional Radiology](#)  
9:40 Ana Pascoal (FE-UCP)  
[Breast Imaging: technological advances, impacts and beyond](#)  
10:00 Pedro Almeida (IBEB)  
[Molecular Imaging: linking Biology to Physics](#)  
10:20 Mário Secca (FCT/UNL, RM-Caselas)  
[Magnetic Resonance: beyond images](#)  
10:40 **Coffee break**  
10:55 Networking (Hospitals, Academia, Industry)  
11:10 João Miranda Santos (IPOP)  
[Image acquisition protocols and its optimization for lowering the dose received by patients in Nuclear Medicine](#)  
11:30 Ana Roda (IPOC)  
[Diagnostic Reference Levels in Computed Tomography](#)  
11:50 Pedro Rodrigues (LIP)  
[PET in Breast Cancer Detection](#)  
12:10 João Veloso (Univ. Aveiro)  
[Advances in single photon counting imaging: x- and y-ray detection](#)  
12:30 **Lunch**
- EDUCATION AND TRAINING**  
**Chairpersons:** Renato Padovani and Sandra Vieira  
*Round Table:*  
14:00 Teresa Eudaldo (Hospital de la Santa Creu i Sant Pau, Barcelona, Spain)  
[Education and Training in Medical Physics: the European overview](#)  
14:15 DFM: Maria do Carmo Lopes (IPOC)  
[Education and Training in Medical Physics: the DFM recommendations](#)  
14:30 [Academic point of view: Luis Peralta \(FCUL\)](#)  
14:45 [Hospitals point of view: Jorge Isidoro \(HUC\)](#)  
15:00 Health authorities point of view  
15:15 *Debate*  
16:15 **Coffee break**  
16:30 Networking (Hospitals, Academia, Industry)
- FINAL SESSION**  
**Chairpersons:** Conceição Abreu and M. Carmen de Sousa  
16:45 Final Session: Stelios Christofides(Medical Physics Depart., Nicosia General Hospital, Cyprus)  
[Medical Physics Staff requirements: the risk to the patient](#)  
17:25 Closing Session