

European Medical Physics and Engineering Conference 2011

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Hosted by the Irish Association of Physicists in Medicine

Trinity College Dublin, Ireland
Thursday 1st September – Saturday 3rd September 2011



IPEM



Workshop on Optimisation and Justification in Radiology and Radiotherapy



Jointly organized by
European Federation of Organizations of Medical Physics
and the
American Association of Physicists in Medicine



Wednesday 31st August 2011, Trinity College, Dublin

Note the workshop immediately precedes the European Medical Physics and Engineering Conference and conference delegates benefit from a reduced fee for the workshop.

Introduction

Traditionally, medical physicists, radiologists and radiation oncologists have placed a considerable emphasis on the quality of the examination or treatment. Recently the extent of the use of radiology and high technology radiotherapy has become a matter of concern. Several highly publicized events culminated in a hearing in U.S. Congress and similarly, the European Commission has expressed concern. All this is leading to an appraisal of optimal use of radiation technology and justification of the procedures. The aim of this Workshop is to introduce current issues related to the justification of medical procedures to medical physicists and to provide a state of the art overview of optimization in medical imaging including assessment of risk.

Aim of the Workshop :

- Provide an overview of the importance of justification
- Highlight the Importance of communication in radiation protection
- Provide state-of-the-art overview of optimization in radiology
- Provide an introduction to new EU standards for Criteria for Acceptability of Imaging and Therapy Equipment

At the end of the Workshop, attendees should understand and have an appreciation of the ethical issues associated with the use of ionizing radiation. They will have a better understanding of the importance of communication in radiation protection and learn about optimization and risk assessment.

Target Audience :

Although the primary target group is medical physicists, the workshop should also be of considerable interest to radiologists, radiation oncologists, radiographers, radiation therapists and technologists as well as Hospital Administrators and Managers. It should also be of interest to National Authorities which regulate the use of ionizing radiation.

Registration details, information on location, local accommodation and fees etc. can be found at www.empec.ie .



Outline Program
AAPM-EFOMP Workshop on Justification and Optimization in Radiology

- 08.30-09.00 Registration
Justification
- 09.00-09.30 IAEA approach to justification in medical and non-medical applications of ionizing radiation.
J.F. Malone (IAEA, Vienna and Dublin)
- 09.30-10.00 Image Wisely – Image Gently
Lynne Fairbent (AAPM)
- 10.00-10.30 Unjustified CT procedures in young adults and the effectiveness of interventions.
Helja Oikarinen (Oulu, Finland)
- 10.30-11.00 Coffee
- 11.00-11.30 Justification and Radiation Protection in Radiotherapy
Herb Mower (AAPM)
- 11.30-12.00 Issues with the use of Airport Whole Body Scanners
J. Anthony Seibert (AAPM)
- 12.00-12.30 Communication of Risk
Gaya Gamhewage (World Health Organisation, Geneva)
- 12.30-13.00 Discussion
- 13.00-14.00 Lunch
Optimization
- 14.00-14.30 Patient Dose and Safety Culture
Melissa Martin (AAPM)
- 14.30-15.30 CT Dose Reporting
CT Dose and Image Quality
Medical Implications of Dose
J. Anthony Seibert and John Boone (AAPM)
- 15.30-16.00 Tea
- 16.00-16.30 CT and risk, a European perspective
J.C. Geleijns (Leiden)
- 16.30-17.00 European standards for Criteria for Acceptability of Equipment.
Implication for medical physicists
Pat Horton (Stirling, Scotland)
- 17.00-17.30 Discussion and conclusion of Workshop