

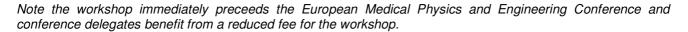
## Workshop on Optimisation and Justification in Radiology and Radiotherapy



### Jointly organized by European Federation of Organizations of Medical Physics and the

American Association of Physicists in Medicine

Wednesday 31<sup>st</sup> August 2011, Trinity College, Dublin



#### 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:

- o Provide an overview of the importance of justification
- o Highlight the Importance of communication in radiation protection
- o 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 Fairobent (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