

# IRISH ASSOCIATION OF PHYSICISTS IN MEDICINE

## TH 6 ANNUAL SCIENTIFIC MEETING

Saturday 28<sup>th</sup> February 2014

Radisson Blu Hotel, Dublin

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## SOCIAL PROGRAM: FRIDAY 27<sup>TH</sup> FEBRUARY

19.30	Meet For Drinks In Odessa Bar, Dame Court, D2
20.30	Conference Dinner - Odessa Restaurant, Dame Court, D2

## SCIENTIFIC PROGRAM: SATURDAY 28<sup>TH</sup> FEBRUARY

8.45 *Registration*

### PLENARY SESSION

CHAIR: LOUISE FAHY

9.15 *President's Welcome*

Louise Fahy

9.20 **INVITED SPEAKER: Prof. Michael K O'Connor**

*Professor of Radiologic Physics, Mayo Medical School, USA*

Innovations in Breast Imaging and why we need them

10.05 **INVITED SPEAKER: Dr. Vivian Cosgrove**

*Head of Radiotherapy Physics*

*St James's University Hospital, Leeds*

Experiences with high-dose rate VMAT using Flattening Free Filter mode technology

10.50 **Questions**

11.00 *Coffee in the sponsor exhibition area*

### DIAGNOSTIC PARALLEL SESSION

CHAIR: MIKE SHEEHY

11.30 A study of the feasibility and reproducibility of measuring blood perfusion in the kidney using MRI without a contrast agent Andrew Fagan

11.45 How to estimate the dose from a dental CT or CBCT scan Anthony Reynolds

12.00 Assessment of Colour Doppler sensitivity of a range of early pregnancy ultrasound systems Jacinta Browne



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12.15	Examining the feasibility of Daylight PDT in Ireland and comparing with other PDT sources	Michael Manley
12.30	Dual Isotope Subtraction SPECT-CT in the Diagnosis of Primary Hyperparathyroidism	Anna-May Tutty
12.45	A Comparison of target materials for routine MTF measurements on DR systems	Eamon Loughman

### RADIOTHERAPY PARALLEL SESSION

CHAIR: AMANDA BARRY

11.30	PTW 729 detector array degradation of response over time following VMAT pre-treatment quality assurance using the Octavius 4D system	Prabakar Sukumar
11.45	Experimental verification of Monte Carlo models of gold nanoparticle radiosensitivity	Margaret Toohey
12.00	Evaluation of a new Electronic Portal Imaging Device (EPID) for in vivo dosimetry applications	Andrew Reilly
12.15	Monitoring daily MLC positional errors using trajectory log files and EPID measurements for IMRT and VMAT deliveries	Adam Agnew
12.30	Should deep inspiration breath-hold be used as standard in left breast radiotherapy treatment?	Niall McAndrew
12.45	A tool for performing quality control on gamma analysis software	Christina Agnew

13.00 *Lunch in the sponsor exhibition area*

### 13.45 POSTER PRESENTATION SESSION

#### IMAGING EQUIPMENT BURSARY COMPETITION

*Open to current student, trainee or basic grade IAPM members who submitted work with a clinical application.*

### JOINT SESSION INCLUDING RADIATION PROTECTION/IT

Chair TBC

14:30	<b>Launch of Young Investigator Grant 2015</b>	Lynn Gaynor
	Young Investigator Grantee 2014 Presentation	Silvin Knight
14.50	Professional Registration – what the future holds	Wil van der Putten



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<b>15.15</b>	Establishing a relationship between Dose Area Product and Eye Dose during Fluoroscopic Interventional Radiology and Cardiology Procedures.	Danielle Maguire
<b>15.30</b>	A new procedure for the development of bespoke software at Cork University Hospital	Paul Hill
<b>15.45</b>	Converting a CT Simulator Room to accommodate a Cyberknife facility.	Martin Sheridan
<b>16.00</b>	An Analysis of Dose Reduction and the Level of Image Quality Attained by iDOSE	Matthew Donoghue
<b>16.15</b>	Imaging Equipment Bursary Award	Nick Stevens (IEL)
<b>16.20</b>	Close of meeting	Louise Fahy

