

WORKSHOP PROGRAMME – FRIDAY, 27 MARCH 2026

When Radiotherapy invades your K-Space!

WORKSHOP SESSION

CHAIR: MARGARET MOORE

SEMINAR ROOM, TOP FLOOR, RADIATION ONCOLOGY BUILDING, UHG

12:30 LUNCH & Registration

13:30	Welcome to University Hospital Galway Introduction to the MR Workshop	Margaret Moore University Hospital Galway
13:40	MR Safety and the Role of the MRSE	Dr Cormac McGrath Belfast Trust
14:00	MRI for Neurosurgery	Michael O'Neill Beaumont Hospital Dublin
14:20	<u>GUEST LECTURE</u> Clinical Implementation of MR Imaging into Radiotherapy	Dr Richard Speight Leeds Cancer Centre UK
15:00	<i>Coffee Break</i>	
15:20	Intraoperative MRI and Quantitative MRI	Dr Michael Kelly Children's Health Ireland
15:40	Accelerated Imaging and AI	Dr Alan Stone Beaumont Hospital Dublin
16:00	MRI for Radiotherapy – Achieving geometrically acceptable imaging for radiotherapy	Paul Davenport St Luke's Radiation Oncology Network Dublin
16:30	Interactive Session – Invasion of K-space – How do we help each other?	Audience & Panel

17:00 *Close*

Optional Tour of Radiation Oncology Dept UHG

19:30: CONFERENCE DINNER: GALMONT HOTEL, LOUGH ATALIA RD, GALWAY, H91 CYN3

WORKSHOP PROGRAMME – FRIDAY, 27 MARCH 2026

When Radiotherapy invades your K-Space!

Richard Speight PhD



Dr Richard Speight is Deputy Head of Radiotherapy Imaging and Research & Innovation at the Leeds Cancer Centre. He has extensive clinical and research experience in the application of MRI in radiotherapy, including MR-only workflows and the use of functional MRI techniques. He chaired an Institute of Physics and Engineering in Medicine (IPEM) working group that developed the first international guidelines for the safe implementation of MRI in radiotherapy. In this talk, he will provide an overview of these guidelines and discuss the commissioning of an MR simulator in Leeds to support both MR-CT and MR-only treatment pathways.

Cormac McGrath PhD






Cormac is the head of the Non-Ionising Radiation Group for the Northern Ireland Regional Medical Physics Service where he also leads the MRI team. He is a Magnetic Resonance Safety Expert for five NHS trusts in NI. He is a previous chair of the UK Institute of Physics and Engineering in Medicine Magnetic Resonance Special Interest Group. He chaired the IPEM working party that produced a freely available set of MRI Safety Notices, and is a member of the IPEM MRI Site Design Working Party (guidance currently out for consultation). He sits on the IPEM MR Safety Expert Accreditation Panel. He was a founding member of the American Board of MR Safety (ABMRS) and currently sits on the Board of Directors as an international member. His current interests are quantitative MRI, MR safety, MRI and radiotherapy, and Virtual Reality in medicine.

His talk will focus on MRI safety, the role of the MRSE and overall safety governance.

Michael O'Neill MSc



Over the past six years, Michael has specialised in MRI physics, working closely with neurosurgeons to help establish a robotic-guided stereotactic neurosurgery programme at Beaumont Hospital. This initiative has enabled the rollout of stereo-encephalography (SEEG) and deep brain stimulation (DBS) procedures for the diagnosis and treatment of Epilepsy and Parkinson's disease. His work spans MRI acquisition, image processing, and education, with a particular focus on understanding and communicating the limitations of imaging technologies. His presentation today will highlight how MRI supports stereotactic neurosurgery, focusing on the geometric accuracy required for imaging and its impact on procedures such as stereo-encephalography (SEEG) and deep brain stimulation (DBS). It will

	<p>also explore the use of Tractography and FMRI to identify critical brain regions, while addressing the limitations of imaging in clinical practice.</p>
<p>Michael Kelly PhD</p>	
	<p>Michael Kelly works as the Principal Physicist for MRI and non-ionising radiation in Children’s Health Ireland. On completing his PhD in MRI at Trinity College Dublin in 2010, he worked as a post-doctoral MRI researcher at the University of Oxford for 4 years and then as preclinical imaging Lead at the University of Leicester for 5 years. In his current role he provides physics support to the paediatric MRI service at Children’s Health Ireland, covering all aspects of MRI safety, sequence optimisation and implementation of new techniques such as functional MRI, quantitative MRI and intraoperative MRI (at the new National Children’s Hospital of Ireland). His talk in today’s workshop will focus on intraoperative MRI and quantitative MRI.</p>
<p>Alan Stone PhD</p>	
	<p>Alan is the Principal Physicist in the Neuro Physics team at Beaumont Hospital who provide scientific support for cutting-edge MRI neuroimaging in a clinical setting. He is an Adjunct Associate Professor at the UCD Centre for Physics in Health and Medicine and specialises in MRI education and research. He has 18 years of MRI experience, working in a variety of clinical and research settings and is the current convenor of the IAPM MRI Special Interest Group. His interests include neuroimaging, accelerated imaging, functional imaging, quantitative MRI and MRI safety. His talk will cover accelerated MR imaging with a specific focus on the Deep Learning reconstruction techniques that have recently emerged.</p>
<p>Paul Davenport MSc</p>	
	<p>Paul is a Radiotherapy Principal physicist working in St. Luke’s Radiation Oncology Network specialising in advanced imaging for cancer treatment, with expertise in MRI-based radiotherapy and MRI coil design. He is experienced in image-guided radiotherapy, imaging system optimisation, and quality assurance.</p> <p>His presentation will discuss geometrically acceptable MRI images suitable for use in radiotherapy treatment planning and the multi/cross-disciplinary collaboration needed to achieve this aim.</p>