

Wednesday 9th –Thursday 10th October 2024

Central Hall Westminster, London

Programme



Day One Programme

Wednesday 9<sup>th</sup> October 2024

09:00		Registration/Exhibitions		
09:30		Welcoming Address, Dr. Anna Barnes, IPEM President		
09:45	Session 1	Woolmer Lecture: Professor Wendy Tindale OBE, Sheffield Teaching Hospitals NHS Foundation Trust		
	36331011 1	Keynote: David Lawson, Department of Health and Social Care		
10:30		"Forward look, opportunities and challenges for Medical Technology"		
11:00	Break	Coffee, Networking & exhibitors		
11:30	Session 2	"Our survey says: AI - friend, foe or frenemy?" - Dr Paul Doolan, University Hospitals of Leicester NHS Foundation Trust		
		Industry Q&A panel on AI in healthcare		
13:00	Break	Lunch , Networking & exhibitors		



		Breakout 1 - AI & Machine Learning	Breakout 2 - Sustainability	
		Clinical Decision support for falls management: a machine learning approach	Developing a framework for improving environmental sustainability in Radiotherapy	
14:15		Dr Ciaran Finucane, Mercer's Institute for Successful Ageing, St. James's Hospital	Dr Robert Chuter, The Christie NHS Foundation Trust	
		Increased Patient Throughput via Implementation of Artificial Intelligence in Diagnostic MRI	Initial estimate of the carbon footprint of UK proton therapy services	
		Asher Ezekiel, The Christie NHS Foundation Trust	Dr Mark Hardy, The Clatterbridge Cancer Centre NHS Foundation Trust	
		How to Implement AI into Breast Screening	First estimate of the carbon footprint of PET imaging	
	Session 3	Dr Roger Staff, NHS Grampian	Gerry Lowe, Mount Vernon Hospital	
		Developing a pratical local framework for responsible AI deployment,	Results of an environmental sustainability survey of radiotherapy professionals: a UK physicist sub analysis	
		Eleanor Hesketh, Sheffield Teaching Hospitals NHS Foundation Trust	Rachel Allcock, University Hospitals Coventry and Warwickshire NHS Trust	
		The use of deep-learning convolutional neural networks (CNN) for auto- classification of digital histology slides of uveal melanoma		
		Professor Azzam Taktak, University Hospitals Bristol and Weston NHS Foundation Trust		
		Roberts Prize Winner for best paper in Physics in Medicine and Biology: How deep learning techniques can improve the detector performances in TOF-PET		
		Fiammetta Pagano, CERN - European Council for Nuclear Research		
15:45	Break	Coffee, Networking & exhibitors		
16:15		John Mallard Lecture: Professor Katia Parodi, Ludwif Maximilian University		
17:00	Session 4			
17:30	ALC: CALL			
18:00	Session 5	Industry Showcase & Celebration Reception		
		Sponsored by UKAS		



Day Two Programme
Thursday 10<sup>th</sup> October 2024

		Workshop1: "How to get published" workshop facilitated by the Institute of Physics Publishing					
	Session 1A	Workshop 2: Pathway to Success: Expert Strategies for HSST IAPS Preparation: IPEM Training Team & Professor Andrew Reilly, NHS					
08:00		Greater Glasgow & Clyde					
		Workshop 3: Mastering the Art of Grant Writing: Unlocking Funding Success: George Bruce, NHS Greater Glasgow & Clyde & Dr					
		Mohammad Al-Amri, Cardiff University					
08:45	Break	Coffee, Networking & exhibitors					
		Breakout 1 - Workforce & Skills	Breakout 2 - Sustainability	Breakout 3 - Ethical Healthcare			
09:00		Effective training of the workforce for online adaptive	Initial estimate of the carbon footprint of	Effectively MR Conditional cardiac implantable			
	Session 2	radiotherapy, with particular reference to a career development path for Dosimetrists	Brachytherapy in the UK,	electronic devices,			
		Nicky Whilde, Mid and South Essex Foundation Trust	Amanda Tate, Nottingham University Hospitals	Dr James Harkin, The Christie NHS Foundation Trust			
		IPEM Innovation Gold Medal 2023 winner: "My Story"	Single departmental experience of implementing the "Greener NHS" sustainability ambitions,	Smart belt design for monitoring falls, posture and basic physiological parameters in the community,			
		Dr Darren Hart , Royal United Hospitals Bath NHS Foundation Trust	Gerry Lowe, Mount Vernon Cancer Centre	Professor Azzam Taktak, University Hospitals Bristol and Weston NHS Foundation Trust			
		Panel session: "Expanding Horizons: Exploring Career Diversity in Medical Physics and Clinical Engineering"	Industry session: AXREM - Supporting the NHS Net Zero ambition, Chris Taylor, Sustainability Champion at Philips Healthcare	Rebuilding a Clinical Engineering department			
				Dr Marcus Durand, Royal Berkshire NHS Foundation Trust			
				We need to fix the basics; exploring the experiences of disabled patients and staff in the NHS,			
				Helen Chamberlain, National Institute for Health and Care Excellence			
				Martin Black Prize Winner - "Towards accurate wearable data for clinical decision making"			
				Dr Peter Charlton, University of Cambridge			
				Honorary Fellow - "From Experience to Innovation: Four Ethical Pillars in Radiotherapy Accessory Design for Breast Cancer Care."			
				Prof. Heidi Probst, Sheffield Hallam University			
10:30	Break	Coffee, Networking & exhibitors					

	Session 3	IPEM President's symposium					
11:00		Chair: Dr Anna Barnes, IPEM President					
		Keyı	note: Professor Thomas "Rock" Mackie				
12:30	Break	Lunch , Networking & exhibitors					
	Session 4	Breakout 1 - Workforce & Skills	Breakout 2 - AI & ML/CE	Breakout 3 - Workforce and Skills			
13:30		Development of a Level 4 Apprenticeship in Medical Physics	Panel Discussion: Al Revolution: Transforming	"Precision and Innovation: The Role of Metrology in Advancing Medical Physics"			
		Clare Anderson, NHSE, EoE	the Future of Clinical Engineering				
		Development of a national community of practice for medical physics practice educators,	Chair Dr Victoria Kidgell, Clinical Engineering Special Interest Group Chair/ Sheffield Teaching Hospital.  Selection of presentations from National Interest Chair Chai				
		Dr Sarah Peel, Guy's and St Thomas' NHS Foundation Trust		Selection of presentations from National Physical Laboratory			
		'Back to Basics' Patient Safety Staff Virtual Reality Training Dr Darren Hart, Royal United Hospitals Bath NHS Foundation Trust					
		Upskilling MR radiographers with physics led, simulator- based training	Strategy Launch: Tackling Challenges in Clinical				
		Guy Drabble, The Christie NHS Foundation Trust					
		The Success of the Clinical Engineering Internship Programme at the Royal Berkshire Foundation Trust	Engineering				
		Maria Benedicta-Edwards, Royal Berkshire NHS Foundation Trust					
		The application of computer simulation for Physicist clinical experiential training: experience gained at NPL		Panel session: "Personal insights from Women in Research"			
		Professor Andy Beavis, Hull University Teaching Hospitals NHS Trust					
15:00	Break	Coffee, Networking & exhibitors					
	Session 5	Keynote: Professor Dame Margaret Whitehead, University of Liverpool					
15:30		Moving Beyond Boundaries - what's next?					
		Dr Mark Knight IPEM President Elect & Claire Sharpe, Deputy CEO					
16:30		Thank you & Safe Travels					