

#### King Saud University, Riyadh, Saudi Arabia January 26-30, 2025 IRRMA-12 GENERAL PROGRAM OUTLINE

Day	Morning Activity			Lunch Break & Poster Sessions	Afternoon Activity (13:00-17:00)	Social Activity (Evening)	
Sunday 26.01.2025	Registration 8:30-9:30	Opening Ceremony 10:00-11:00	Exhibition T 11:00-12:0			Invited Talks (13:00-17:00)	
Monday 27.01.2025	Invited Talks		Ministry of Industry and Mineral Resources Activities	Conf	12:00-13:00	Invited / Regular Talks (13:00-17:00)	Gala Dinner (19:30-22:30)
Tuesday 28.01.2025	Invited Talks		Panel Discussion			Invited / Regular Talks (13:00-17:00)	Closing ceremony (17:30-17:45)
Wednesday 29.01.2025		nal Radiation Physics ety IRPS Meeting	Virtual Session		City Sightseeing		







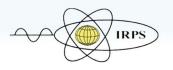


Sunday 26.01.2025			
8:30-9:30	Registration		
	Opening Ceremony: Main Theatre		
	A. Welcoming Address:		
	Chairman of the Standing Committee On Radiation Protection & VP IRPS, Prof. Mohammed Alkhorayef		
10.00 11.00	IRPS President, Professor Jorge Fernandez		
10:00-11:00	Conference Chair, Dr. May Alrashed		
	University Acting President, Prof. Abdullah Al-Salman		
	His Excellency, The Minister of Industry & Mineral Resources, Mr. Bandar Alkhorayef		
	B. Honouring		
11:00-12:00	Exhibition Tour		
12:00-13:00	Lunch Break & Poster Sessions		
Session # 1 Main Theatre			
	Session Chair: Prof. Christopher Chantler + Dr. Layal Jambi		
13:00-13:30	Invited Talk – Prof. William Dunn, A brief history of IRRMA		
13:30-14:00	Invited Talk – <b>Prof. Jorge E. Fernandez</b> : XRF line enhancement from Compton ionization for unpolarized and linearly polarized		
13.30-14.00	excitation		
14:00-14:30	Invited Talk – <b>Prof. David Bradley</b> : Luminescence and radiation sensing across a wide range of doses and dose rates: industrial		
14.00-14.30	and biomedical applications		
14:30-14:45	Coffee Break		
	Session # 2 Main Theatre		
Session Chair: Prof. William Dunn + Dr. Wejdan Arif			
14:45-15:15	Invited Talk: <b>Prof. Kyriaki Theodorou</b> : Artificial Intelligence in Radiotherapy: Present Status and Future Perspectives		
15:15-15:45	Invited Talk: <b>Prof. Abdelmoneim Sulieman:</b> Occupational exposure in medical and industrial activities: Cancer risk and		
	deterministic effect probabilities		
15:45- 16:15	15:45- 16:15 Invited Talk: <b>Prof. Fouad Abolaban:</b> Recent advances in radiotherapy treatment using IGRT and CBCT		
End of the day 1			







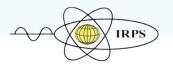


Monday 27.01.2025			
8:00-9:00	Registration		
	Session # 3 Main Theatre Session Chair: Prof. David Bradley + Prof. Khalid Alzimami		
09:00-09:30	Invited Talk – Prof. Christopher Chantler: A Story of Copper		
09:30-10:00	Invited Talk – <b>Prof. Maria Isabel Lopes:</b> Two Phase Xenon Time Projection Chambers for Dark Matter Searches		
10:00-10:30	Invited Talk – <b>Prof. Zolt Podolyak</b> : LaBr <sub>3</sub> (Ce) detectors equipped with Silicon photomultipliers		
10:30-10:45	Coffee Break		
	Session # 4 Main Theatre		
10:45-11:45	Overview of the Medical Devices Sector in the National Industrial Strategy  Ministry of Industry and Mineral Resources		
11:45-12:00	Conference Photo		
17:0:-13:00	Lunch Break & Poster Sessions		
	Session # 5 Main Theatre Session Chair: Prof. Maria Isabel Lopes + Prof Abdullah Alodhayb		
13:00-13:30	Invited Talk – <b>Dr. Esameldeen Babikir:</b> Patient radiation Safety and risks in medical imaging: Challenges and Opportunities		
13:30-14:00	Invited Talk – <b>Prof. Mohamad Gomaa:</b> Role of Radiation Physicist in Bone Mineral Density Measurements		
14:00-14:30	Invited Talk – <b>Prof. Hairul Azhar Bin Abdul Rashid:</b> Advancement in fiberoptic dosimetry system for FLASH radiotherapy		
14:30-14:45	Coffee Break		









Monday 27.01.2025			
Session # 6 Main Theatre			
Session Chair: Prof. Fouad Abolaban + Dr. Esameldeen Babikir			
14:45-15:00	<b>Prof. Grazia Gambarini:</b> Studies for experimental imaging in phantom absorbed dose in BNCT and Hadron therapy		
15:00-15:15	Dr. Amjad Alyahyawi: Artificial Intelligence in industrial and medical applications		
15:15- 15:30	<b>Dr. Maryam M. Alkhateeb:</b> What imaging modality is best for diagnostic accuracy of axillary lymph node in breast cancer patients?		
15:30- 15:45	Dr. Hassan Salah: Enhancing CT imaging protocols for disabled patients		
15:45- 16:00	<b>Dr. Wejdan Arif:</b> Focused ultrasound for opening blood-brain barrier and drug delivery monitored with positron emission tomography		
16:00- 16:15	<b>Dr. Saad Alshahri:</b> Enhancing Landmine detection using backscatter gamma imaging: A comparative study of Cs-137 and Co 60 Sources for subsurface identification		
16:15- 16:30	<b>Dr. Abdullah Metebi:</b> Targeting of the first-in-class humanized hAnnA1 antibody in ovarian cancer preclinical mouse models		
16:30- 16:45	5:30- 16:45 Ms. Zainab Aldawood: Evaluation of Hospital preparedness for responding to the nuclear and Radiological emergencies in the Kingdom of Saudi Arabia		
16:45- 17:00	Ms. Fatima Damalkhan: Investigating the Potential Use of Different Adsorbents to Mitigate Soil Contamination		
End of the day 2			
Gala Dinner			
(19:30-22:30)			





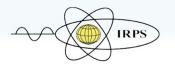


	Tuesday 28.01.2025			
8:00-9:00	Registration			
	Session # 7 Main Theatre			
	Session Chair: Prof. Kiki Theodorou + Dr. Hassan Salah			
09:00-09:30	Invited Talk – <b>Prof. Marco Esposito</b> : AI in Radiation Medicine: Addressing a Global Challenge			
09:30-10:00	Invited Talk – <b>Prof. Paola Bregant:</b> Dose tracking in radiodiagnostic imaging			
10:00-10:30	Invited Talk – <b>Prof. Hugo Schelin:</b> Radiation Dose Measurements and Radiation Protection in Pediatric			
	Radiology			
10:30-11:00	Invited Talk – <b>Prof. Hector Rene Vega -Carrillo:</b> Response of a passive TLD 600-TLD 700 /RPP neutron spectrometer			
11:00-11:15	Coffee Break			
11.00 11.10	Session # 8 Main Theatre			
	Panel Discussion			
11:15-12:00	Optimizing radiation dose management: A comprehensive Approach			
	Saudi Food and Drug Administration (SFDA) & Ministry of Health (MoH)			
12:00-13:00	Lunch Break & Poster Sessions			
	Session #9 Main Theatre			
	Session Chair: Prof. Paola Bregant + Prof. Abdelmoneim Sulieman			
13:00-13:15	<b>Prof. Jakrapong Kaewkhao</b> : Ce3+ doped borophosphate scintillating glass for X ray imaging applications			
13:15-13:30	<b>Dr. Lidia Matei:</b> Pioneering Progress: Canadian Leadership in Nuclear Science for Health, Energy, and Sustainability			
13:30-13:45	<b>Prof. Mayeen Uddin Khandaker:</b> Studies of <sup>nat</sup> GD(p,X) nuclear reaction cross-section for optimized production of theragnostic <sup>155</sup> Tbradionuclide via AVF cyclotron			
13:45-14:00	Eng. Nasser Al Aboudi : Medical devices regulatory framework at KSA			
14:00-14:15	<b>Dr. Amal Alqahtani:</b> Radiogenic risks and effective dose from paediatric computed tomography procedures			
14:15-14:30	<b>Prof. Hamid Osman:</b> Estimation of Effective Radiation dose for adult and paediatric computed tomography examinations			
14:30-14:45	Eng. Fahad Al Othiam: The Saudi National Diagnostic Reference level -Nuclear Medicine			
14:45-15:00	<b>Dr. Ashraf Almahwasi:</b> Feedback pattern and trainees perceptions: insights for SCFHS and newly accredited			
	medical physics Residency programs in Saudi Arabia			









	Tuesday 28.01.2025	
	Session # 10 Main Theatre	
	Session Chair: Dr. Saad Alshahri + Dr. Ashraf Almahwasi	
15:15- 15:30	<b>Dr. Qin-Nan Gao:</b> Monte Carlo Model Validation for Range Verification in Proton Therapy with an In-Beam Dual-head PET System	
15:30- 15:45	<b>Dr. Huda A. AlSulaiti:</b> Monitoring Radioactivity in Qatar's Seawater: Implications for Marine and Human Health	
15:45- 16:00	<b>Dr. Shaikah Alsubayae</b> : A Study of Secondary Particles Production from Carbon Ion Beam for Radiotherapy	
16:00- 16:15	Dr. Tanaporn Buangklang: Utilizing dual-energy mouse Cone-beam CT for proton animal treatment planning	
16:15- 16:30	<b>Prof. Inayatullah Shah Sayed:</b> Organ dose distribution in anteroposterior (AP) abdominal radiography: Phantom-Based study	
16:30-16:45	<b>Dr. Saleh Althobaiti:</b> A systematic review study of computed tomography DRLs in Saudi Arabia: Highlighting discrepancies with SFDA guidelines and the importance of CTDIvol	
16:45-17:00	<b>Dr. Mohammed Ahmed Saeed:</b> Radiation dose to kidney voluntary donors & disorders during renal scan using TC99m (DTPA & DMSA)	
17:00-17:15	<b>Prof. Yousif Mohamed Yousif Abdallah:</b> A technological review on the application of artificial intelligence in radiotherapy	
17:15-17:30	<b>Dr. Reem Alqarni:</b> Enhancing HTGR Spherical Fuel Element Fabrication via Optimized Dispersion Fuel Pressing Techniques	
	Closing (17:30 – 17:45)	
IRPS President- Prof. Jorge E. Fernandez		
	Announcement for next IRRMA	









Wednesday 29.01.2025 (IRPS Activities)		
10:00-11:30	Office Bearers of the International Radiation Physics Society Meeting (by invitation only)	
11:30-12:30	Lunch Break	
12:30-15:00	Virtual Session	
End of the Society Activities		
City Sightseeing (15:00-19:00)		

