







Sunway University in consortia with King Saud University and the University of Melbourne

1st Sunway-Asian/Oceania Radiation Physics Networking Workshop

rch Centre fo

and International Radiation Physics Society 5th International Forum on Advances

in Radiation Physics (IFARP-5)

Updates on the recent radiation physics developments in healthcare and industry

Committee: Distinguished Prof. David A. Bradley, Chair Prof. Mayeen U. Khandaker, Dr. Chew Ming Tsuey, Dr. Lam Siok Ee

Programme

27 November 2022, Sunday, hybrid presentation

3:00 p.m. – 3:30 p.m.	Prof. Mohammed Alkhorayef, King Saud University, Saudi Arabia
3:30 p.m. – 4:00 p.m.	Prof. Meshari Al-Nuaimi, Kuwait Cancer Control Centre, Kuwait
4:00 p.m. – 4:30 p.m.	Assoc. Prof. Saad Abdulaziz Saad Aldawood, King Saud University, Saudi Arabia
4:30 p.m. – 5:00 p.m.	Prof. Abdelmoneim Adam Sulieman, Prince Sattam bin Abdulaziz University, Saudi Arabia
5:00 p.m. – 5:30 p.m.	Asst. Prof. Shyma M. Alkhateeb, King Abdulaziz University, Saudi Arabia
5:30 p.m. – 6:00 p.m.	Dr. Majdi Alnowaimi, King Abdulaziz University, Saudi Arabia
6:00 p.m. – 6:30 p.m.	Asst. Prof. Amal Alqahtani, University of Imam Abdulrahman Bin Faisal, Saudi Arabia
6:30 p.m. – 7:00 p.m.	Asst. Prof. Amjad Alyahyawi, University of Ha'il, Saudi Arabia

28 November 2022, Monday, hybrid presentation

28 November 2022, Wonday	, nybra presentation
8:30 a.m. – 9:00 a.m.	Registration and Breakfast
9:00 a.m. – 9:30 a.m.	Opening Remarks by Distinguished Prof. David Andrew Bradley, Sunway University
9:30 a.m. – 10:00 a.m.	Prof. Christopher Chantler, University of Melbourne, Australia
10:00 a.m. – 10:30 a.m.	Prof. Wahyu Srigutomo, Bandung Institute of Technology, Indonesia
10:30 a.m. – 10:45 a.m.	Tea break
10:45 a.m. – 11:15 a.m.	Prof. Suhairul Hashim, Universiti Teknologi Malaysia, Malaysia
11:15 a.m. – 11:45 a.m.	Assoc. Prof. Ung Ngie Min, University of Malaya, Malaysia
11:45 a.m. – 12:15 p.m.	Dr. Chanh Tran, La Trobe University, Australia
12:15 p.m. – 12:45 p.m.	Asst. Prof. Phannee Saengkaew, Chulalongkorn University, Thailand
12:45 p.m. – 2:00 p.m.	Lunch
2:00 p.m. – 2:30 p.m.	Welcoming Remarks by CEO of Sunway Education Group, Dato' Prof. Elizabeth Lee, President of Sunway University, Prof. Sibrandes Poppema, Provost of Sunway University, Prof. Abhimanyu Veerakumarasivam, Dean, School of Engineering and Technology, Prof. Serge Demidenko, Director of Nuclear Security IAEA (retd.), Y.M. Raja Dato' Abdul Aziz Raja Adnan
2:30 p.m. – 3:00 p.m.	Dr. Hoang Sy Minh Tuan, Thu Dau Mot University, Vietnam
3:00 p.m. – 3:30 p.m.	Dr. Freddy Haryanto, Bandung Institute of Technology, Indonesia
3:30 p.m. – 3:45 p.m.	Tea break
3:45 p.m. – 4:15 p.m.	Prof. Bleddyn Jones, University of Oxford, United Kingdom
4:15 p.m. – 4:45 p.m.	Prof. Andy Nisbet, University College London, United Kingdom
6:00 p.m. – 8:00 p.m.	Dinner at Sunway Resort Hotel

29 November 2022, Tuesday, hybrid presentation

8:30 a.m. – 9:00 a.m.	Breakfast
9:00 a.m. – 9:30 a.m.	Prof. Md. Moazzem Hossain Miah, University of Chittagong, Bangladesh
9:30 a.m. – 10:00 a.m.	Mr. Delmar Arzabal, Rizal Medical Centre & De La Salle University, Philippines
10:00 a.m. – 10:30 a.m.	Prof. Ir. Hairul Azhar Abdul Rashid, Multimedia University, Malaysia
10:30 a.m. – 10:45 a.m.	Tea break
10:45 a.m. – 11:15 a.m.	Prof. Mayeen Uddin Khandaker, Sunway University
11:15 a.m. – 11:45 a.m.	Dr. Mohammad Khalis Abdul Karim, Universiti Kebangsaan Malaysia, Malaysia
11:45 a.m. – 12:15 p.m.	Mr. Lee Hee Siang, Cancer Centre, Sunway Medical Centre, Malaysia
12:15 p.m. – 12:45 p.m.	Assoc. Prof. Noramaliza Mohd Noor, Universiti Putra Malaysia, Malaysia
12:45 p.m. – 1:00 p.m.	Dr. Mohd Hafiz Mohd Zin, Universiti Sains Malaysia, Malaysia
1:00 p.m. – 2:00 p.m.	Lunch
2:00 p.m. – 2:15 p.m.	Assoc. Prof. Rafidah Zainon, Universiti Sains Malaysia, Malaysia
2:15 p.m. – 2:45 p.m.	Dr. Siti Fairus Abdul Sani, University of Malaya, Malaysia
2:45 p.m. – 3:15 p.m.	Prof. Ts. Faizal K.P. Kunchi Mohamed, Universiti Kebangsaan Malaysia, Malaysia
3:15 p.m. – 3:30 p.m.	Tea break
3:30 p.m. – 4:00 p.m.	Prof. Ahmad Taufek Abdul Rahman, Universiti Teknologi MARA, Malaysia
4:00 p.m. – 4:15 p.m.	Closing Remarks by Distinguished Prof. David Andrew Bradley

Sunway University A member of the Sunway Education Group No. 5, Jalan Universiti, Bandar Sunway, 47500 Selangor Darul Ehsan, Malaysia.

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Date: 27 Nov. 2022 Time: 3 pm – 7 pm Venue: Sunway Resort

Date: 28 - 29 Nov. 2022 Time: 8 am – 5 pm Venue: GC Hall 1, Sunway University

1st Sunway-Asian/Oceania Radiation Physics Networking Workshop & 5th International Forum on Advances in Radiation Physics

Programme Details

27 November 2022, Sunday

3:00 p.m. – 3:30 p.m.	Prof. Mohammed Alkhorayef, King Saud University, Saudi Arabia
	Assessment of occupational exposure and radiation risks in nuclear
	medicine departments
3:30 p.m. – 4:00 p.m.	Prof. Meshari Al-Nuaimi, Kuwait Cancer Control Centre, Kuwait
4:00 p.m. – 4:30 p.m.	Assoc. Prof. Saad Abdulaziz Saad Aldawood, King Saud University,
	Saudi Arabia
	Novel gamma rays detection technique based on micromechanical
	system
4:30 p.m. – 5:00 p.m.	Prof. Abdelmoneim Adam Sulieman, Prince Sattam bin Abdulaziz
	University, Saudi Arabia
	Evaluation of COVID-19 patient radiation doses from recurrent
	computed tomography examination
5:00 p.m. – 5:30 p.m.	Asst. Prof. Shyma M. Alkhateeb, King Abdulaziz University, Saudi
	Arabia
	Digital radiography retake rates and effect on patient dose
5:30 p.m. – 6:00 p.m.	Dr. Majdi Alnowaimi, King Abdulaziz University, Saudi Arabia
6:00 p.m. – 6:30 p.m.	Asst. Prof. Amal Alqahtani, University of Imam Abdulrahman Bin
	Faisal, Saudi Arabia
	Development of borosilicate glass media for neutron sensing
6:30 p.m. – 7:00 p.m.	Asst. Prof. Amjad Alyahyawi, University of Ha'il, Saudi Arabia
	Thermoluminescence dosimetry in medical diagnostic applications

28 November 2022, Monday

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8:30 a.m. – 9:00 a.m.	Registration and Breakfast
9:00 a.m. – 9:30 a.m.	Opening Remarks by Distinguished Prof. David Andrew Bradley,
	Sunway University
	A brief overview of CAPRT national and international collaborations
9:30 a.m. – 10:00 a.m.	Prof. Christopher Chantler, University of Melbourne, Australia
	The debut of the new Hybrid method for the acquisition and analysis
	of X-ray Absorption Spectra at the Australian Synchrotron, and
	Australian and Regional opportunities for Joint Research
10:00 a.m. – 10:30 a.m.	Prof. Wahyu Srigutomo, Bandung Institute of Technology, Indonesia
	Human Resources and Infrastructure in FMIPA ITB to Strengthen the
	Asian-Oceania Radiation Physics Networking
10:30 a.m. – 10:45 a.m.	Tea break
10:45 a.m. – 11:15 a.m.	Prof. Suhairul Hashim, Universiti Teknologi Malaysia, Malaysia
	Radiological Dose Assessment to Members of the Public Using
	Consumer Products Containing Naturally Occurring Radioactive
	Materials in Malaysia
11:15 a.m. – 11:45 a.m.	Assoc. Prof. Ung Ngie Min, University of Malaya, Malaysia

1st Sunway-Asian/Oceania Radiation Physics Networking Workshop & 5th International Forum on Advances in Radiation Physics

Programme Details

	Applications of novel detectors for in vivo dosimetry: UMMC experience
11:45 a.m. – 12:15 p.m.	Dr. Chanh Tran, La Trobe University, Australia
	Complex Atomic Fine Structure (CAFS) - New Technology at
	Advanced Synchrotrons
12:15 p.m. – 12:45 p.m.	Asst. Prof. Phannee Saengkaew, Chulalongkorn University, Thailand
	Development and Synthesis of Materials for Radiation Detection
12:45 p.m. – 2:00 p.m.	Lunch
2:00 p.m. – 2:30 p.m.	Welcoming Remarks by President of Sunway University, Prof.
	Sibrandes Poppema, Dean, School of Engineering and Technology,
	Prof. Serge Demidenko, Director of Nuclear Security IAEA (retd.), Y.M.
	Raja Dato' Abdul Aziz Raja Adnan
2:30 p.m. – 3:00 p.m.	Dr. Hoang Sy Minh Tuan, Thu Dau Mot University, Vietnam
	The status of applying irradiation food in Vietnam and the applying
	10 MeV e-Beams to Process Textile Dyeing Wastewater from
	Industry Park
3:00 p.m. – 3:30 p.m.	Dr. Freddy Haryanto, Bandung Institute of Technology, Indonesia
	Exploring of Transport Particle in Medical LINAC Based on Monte
	Carlo Simulation
3:30 p.m. – 3:45 p.m.	Tea break
3:45 p.m. – 4:15 p.m.	Prof. Bleddyn Jones, University of Oxford, United Kingdom
	From Very Low to Ultra-High (FLASH) Dose-Rate BED Estimations
4:15 p.m. – 4:45 p.m.	Prof. Andy Nisbet, University College London, United Kingdom
	Developments in Medical Radiation Physics at University College
	London
6:00 p.m. – 8:00 p.m.	Dinner at Sunway Resort Hotel

29 November 2022, Tuesday

8:30 a.m. – 9:00 a.m.	Breakfast
9:00 a.m. – 9:30 a.m.	Prof. Md. Moazzem Hossain Miah, University of Chittagong,
	Bangladesh
	Measurement of naturally occurring radioactivity in various
	samples at Chittagong region of Bangladesh
9:30 a.m. – 10:00 a.m.	Mr. Delmar Arzabal, Rizal Medical Centre & De La Salle University,
	Philippines
	Radiation Physics in the Philippine Clinical Setting: Present and
	Beyond
10:00 a.m. – 10:30 a.m.	Prof. Ir. Hairul Azhar Abdul Rashid, Multimedia University, Malaysia
	Concept for a real-time distributed optical fiber radiation dosimetry
10:30 a.m. – 10:45 a.m.	Tea break
10:45 a.m. – 11:15 a.m.	Prof. Mayeen Uddin Khandaker, Sunway University

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Programme Details

	Studies of charged particle induced nuclear reactions for production
	theranostic radionuclides
11:15 a.m. – 11:45 a.m.	Dr. Mohammad Khalis Abdul Karim, Universiti Kebangsaan Malaysia,
	Malaysia
	Atmospheric dispersion and dose assessment of Cs-137 from
	simulated nuclear power plant explosions in South-East Asia
11:45 a.m. – 12:15 p.m.	Mr. Lee Hee Siang, Cancer Centre, Sunway Medical Centre, Malaysia
	Digital vs Conventional PETCT: Boon and Bane
12:15 p.m. – 12:45 p.m.	Assoc. Prof. Noramaliza Mohd Noor, Universiti Putra Malaysia,
	Malaysia
	From Kibo, ISS to Scientists: The return of EVA & IVA SOFPADS
12:45 p.m. – 1:00 p.m.	Dr. Mohd Hafiz Mohd Zin, Universiti Sains Malaysia, Malaysia
	Digital data in Image Guided-Intensity Modulated Radiotherapy (IG-
	IMRT): towards automation of Quality Assurance for improved
	safety and accuracy
1:00 p.m. – 2:00 p.m.	Lunch
2:00 p.m. – 2:15 p.m.	Assoc. Prof. Rafidah Zainon, Universiti Sains Malaysia, Malaysia
	Evaluation of radiation dose to extremities by using automatic
	Evaluation of radiation dose to extremities by using automatic dispenser in dispensing high dose radioiodine
2:15 p.m. – 2:45 p.m.	, .
2:15 p.m. – 2:45 p.m.	dispenser in dispensing high dose radioiodine
2:15 p.m. – 2:45 p.m. 2:45 p.m. – 3:15 p.m.	dispenser in dispensing high dose radioiodine Dr. Siti Fairus Abdul Sani, University of Malaya, Malaysia
	dispenser in dispensing high dose radioiodine Dr. Siti Fairus Abdul Sani, University of Malaya, Malaysia Radioimaging of Nanoparticle Contrast Agent Conjugated Iohexol
	dispenser in dispensing high dose radioiodine Dr. Siti Fairus Abdul Sani, University of Malaya, Malaysia Radioimaging of Nanoparticle Contrast Agent Conjugated Iohexol Prof. Ts. Faizal K.P. Kunchi Mohamed, Universiti Kebangsaan Malaysia,
	dispenser in dispensing high dose radioiodine Dr. Siti Fairus Abdul Sani, University of Malaya, Malaysia Radioimaging of Nanoparticle Contrast Agent Conjugated Iohexol Prof. Ts. Faizal K.P. Kunchi Mohamed, Universiti Kebangsaan Malaysia, Malaysia
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