





RADIATION PROTECTION FROM BANANAS TO BOATS
PACIFIC BAY RESORT | COFFS HARBOUR, NSW
 20-24 OCTOBER 2024

This program is endorsed by ACPSEM for CPD Points



SUNDAY 20 OCTOBER 2024

1300-1700	Registration desk opens	Name Badge & Lanyard sponsored by	 TELLUS	Satchels sponsored by	BHP	Foyer of Island Courtyard
1400 – 1700	Exhibitors bump in					Island Courtyard
1600-1800	ARPS Executive Meeting					Boardroom 3
1800 – 2000	Welcome Reception		Sponsored by		 Radtronics <small>Instrumentation for Radiation Measurement</small>	Bayside Green

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MONDAY 21 OCTOBER 2024

0730 - 0815	“Women in Radiation” – morning walk To meet at the Hotel Lobby at 0725		Pacific Bay Resort Hotel Lobby
0800 – 1700	Registration Desk Opens	Name Badge & Lanyard sponsored by  TELLUS Satchels sponsored by 	Foyer of Island Courtyard
0800 – 1700	Speaker Room opens		Boardroom 3
0800 – 1545	Exhibition + Barista Cart opens	Barista cart sponsored by  	Island Courtyard & Jetty Room
Plenary Session 1			Marina Room
0900 – 0905	Convenor Opening Comments Brent Rogers, ARPS 2024 Convenor		
0905 - 0915	Welcome to Country Aunty Jenny Skinner		
Chair: Paula Veevers			
0915 – 1030	Keynote Address Radiation Protection Stewardship in a Rapidly Evolving Environment Dr Gillian Hirth, Chief Executive Officer, ARPANSA Followed by Q&A		
1030 – 1100	Morning Refreshments & Trade Exhibition		Sponsored by 
			Island Courtyard & Jetty Room

1100 – 1220	Concurrent Session 1.1 – Marina Room Theme: Public and Environment 1 <i>Chair: Jim Hondros</i>	Concurrent Session 1.2 - Crystal Sapphire Room Theme: Radiation Protection Culture <i>Chair: Jenny Diffey</i>	
1100 – 1120	Developing an ARPANSA framework for radiation monitoring, measurement, and assessment in the Australian environment Dr Adrian Hawley, ARPANSA	Diversity, Equity, Inclusion and Belonging in the Nuclear Industry Darren McPherson, ANSTO	
1120 – 1140	Western Australia Environmental Monitoring Working Group Activities James De Corrado, ARPANSA	Consultation to 360 Engagement: Moving into the 21st Century Cameron Jeffries, SA Medical Imaging	
1140 – 1200	UNSCEAR Evaluation of Public Exposure to Ionizing Radiation Dr Cameron Lawrence, ARPANSA	Transforming Radiation Safety: Harnessing 3D Motion Capture for Holistic Ergonomic Solutions Rhiarn Hoban, ANSTO	
1200 – 1220	Exposure to Naturally Occurring Radon in the Workplace - A Guidance Document Emma Barnes, ARPANSA	The ARPS Journal and Newsletter: The History, the future and submitting to the journal William Bartolo, Bartolo Safety Management Service	
1220 – 1320	<i>Lunch & Trade Exhibition</i>	Sponsored by 	Island Courtyard & Jetty Room
Plenary Session 2 <i>Chair: Bronte Sial</i>		Marina Room	
1320 – 1405	Keynote Address Best Practice in Radiation Protection for the Australian NPS Enterprise Loch Castle, Acting Assistant Director General Nps Governance Authority, Australian Submarine Agency		

1410 – 1510	Concurrent Session 2.1 - Marina Room Theme: Future Developments & Challenges 1 <i>Chair: Bronte Sial</i>	Concurrent Session 2.2 - Crystal Sapphire Room Theme: Education <i>Chair: Nicole Willetts</i>	
1410 – 1430	It's a Long Way to the Shop if You Want a Sausage Roll Cameron Jeffries, SA Medical Imaging	Tools of the Trade – Enhancing Education in Radiation Protection Instrumentation for the Trainee Health Physics Surveyor Melanie Hulskamp, ANSTO	
1430 – 1450	Radiation Harmonisation at IRPA16 - Main Themes and Outcomes Dr Amy Macintosh, ARPANSA	Introduction to Gamma Spectrometry as part of the ANSTO Health Physics Core Competency in Radiation Detection and Measurement Liam Brophy, ANSTO	
1450 – 1510	Updating the ANRDR: keeping ahead of Australia's expanding radiation industry Dr Cameron Lawrence, ARPANSA	Spinning Science: Harnessing Play-Based Learning in Science literacy education Henriette Rossouw, Maniacs Learn Through Play	
1510 – 1540	<i>Afternoon Refreshments & Trade Exhibition</i>		Sponsored by  Island Courtyard & Jetty Room

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1540 - 1640	Concurrent Session 3.1 – Marina Room Theme: Future Developments & Challenges 2 <i>Chair: Ron Rubendra</i>	Concurrent Session 3.2 - Crystal Sapphire Room Theme: NORM 1 <i>Chair: Dr Cameron Lawrence</i>
1540 – 1600	An Overview of the activities at the Centre for Radiation Research, Education and Innovation at the University of Adelaide Professor Antony Hooker, Centre for Radiation Research, Education and Innovation, University of Adelaide	Radiation Accounting: Insights from an Australian Mineral Laboratory Lisa Allen, Nagrom
1600 – 1620	Radiocesium accumulation in wild animals from Fukushima, with radiation doses to human consumers Donovan Anderson, Institute of Radiation Emergency Medicine, Hirosaki University, Japan	Radon (²²² Rn) exhalation from petroleum processing products Dr Riaz Akber, Safe Radiation
1620 – 1640	Advancements and Challenges in Absorbed Radiation Dose Assessment: A Capability Analysis of Biodosimetry in Australia Jonathan Sentzas, ARPANSA	Environmental scan of global aquatic dispersion models: Enhancing ARPANSA’s capabilities for predicting transport from radiological releases Dr Amy Macintosh, ARPANSA
1645 - 1745	ARPS AGM	
1800	Young Generation Network Dinner. Bayside Bar and Grill, meet at the Hotel Lobby	
		Marina Room

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TUESDAY 22 OCTOBER 2024

0715 – 0845	Breakfast Workshop (Registration required) Radiological Emergency Workshop		Crystal Sapphire Room	
0800 – 1700	Registration Desk Opens	Name Badge & Lanyard sponsored by  TELLUS	Satchels sponsored by BHP	Foyer of Island Courtyard
0815 – 1520	Exhibition + Barista Cart Opens		Barista cart sponsored by   ANSTO Science. Ingenuity. Sustainability.	Island Courtyard
0845 – 1600	Speaker Room opens		Boardroom 3	
Plenary Session 3 <i>Chair: Brent Rogers, ARPS 2024 Convenor</i>				Marina Room
0900 – 0905	Welcome to Day 2			
0905 – 1005	Boyce Worthley Oration Adventures in Radiationland - A Personal Journey from the Invisible Light to the Blinding Light Associate Professor Lee Collins			
1005 – 1040	<i>Morning Refreshments & Trade Exhibition</i>		Island Courtyard & Jetty Room	
Plenary Session 4 <i>Chair: Brent Rogers, ARPS 2024 Convenor</i>				Marina Room
1040 – 1125	Keynote Address Radiological Challenges at Oak Ridge National Laboratory Dr Scott O. Schwahn, Senior Health Physicist – Oak Ridge Laboratory			

1130 - 1230	Concurrent Session 4.1 – Marina Room Theme: Public and Environment 2 <i>Chair: Dr Cameron Lawrence</i>	Concurrent Session 4.2 - Crystal Sapphire Room Theme: Medical <i>Chair: Nicole Willetts</i>
1130 – 1150	Radiating Expertise Nikki Keighran, ANSTO	The Big Banana Equivalent Dose: A Personal Perspective on Radiation Risk Communication in Medical Imaging Dr Jennifer Diffey, Hunter New England Imaging
1150 – 1210	New Australian Codes for Radiation Gauges and Well Logging Arne Biesiekierski, ARPANSA	Radiation Measurement and Protection Challenges Associated with 212Pb for Targeted Alpha Therapy Drew Watson, Dept of Health Forensic and Scientific Services
1210 – 1230	Determining Radiological Guideline Values for Recreational Water Rachel Williams, ARPANSA	Experiences in using Monte Carlo simulation for dose calculation in radiation protection Dr Christopher Poole, Radiation Analytics
1230 – 1330	<i>Lunch & Trade Exhibition</i>	
Plenary Session 5 <i>Chair: Cameron Jefferies</i>		Island Courtyard & Jetty Room
1330 - 1415	Keynote Address “Literacy is not a luxury” – building radiation risk and hazard awareness Helen Cassidy, Manager, Operations & Inventory, Australian Radioactive Waste Agency	
1415 - 1445	Poster Session	Jetty Room
1445 - 1515	<i>Afternoon Refreshments & Trade Exhibition</i>	
		Island Courtyard & Jetty Room

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1515 - 1615	Concurrent Session 5.1 – Marina Room Theme: Instrumentation <i>Chair: Matt Wiggins</i>	Concurrent Session 5.2 - Crystal Sapphire Room Theme: Future Developments and Challenges 3 <i>Chair: Jenny Diffey</i>
1515 – 1535	Quality Management in a Radioanalytical Laboratory Drew Watson, Dept of Health Forensic and Scientific Services	Artificial Intelligence – Influences on Radiation Safety now and in the future Ron Rubendra, ARPS
1535 – 1555	Use of an Extrapolation Ionization Chamber for Uranium Slab Dose Measurements Dr Scott Schwahn, Oak Ridge National Laboratory	The Effect of Radon and Radon Decay Products in the Lung of Small Animals Professor Antony Hooker, Centre for Radiation Research, Education and Innovation, University of Adelaide
1555 – 1615	Determining The Radon Diffusion Coefficient in A Waterproof Material Dr Chutima Kranrod, Institute of Radiation Emergency Medicine, Hirosaki University, Japan	Voyage to Safety: Setting the Standard for Space Fission Reactor Safety in the Final Frontier Kaan Kaban, ANSTO
1900 – 2300	ARPS Conference Dinner - Restaurant & Deck, Pacific Bay Resort	

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WEDNESDAY 23 OCTOBER 2024

0745 – 0915	ARPAB Breakfast Workshop (Registration required)		Crystal Sapphire Room
0840 – 1630	Registration Desk Opens	Name Badge & Lanyard sponsored by  TELLUS Satchels sponsored by BHP	Foyer of Island Courtyard
0900 – 1600	Speaker Room opens		Boardroom 3
0840 – 1505	Exhibition + Barista Cart Opens	Barista cart sponsored by   ANSTO Science. Ingenuity. Sustainability.	Island Courtyard
Plenary Session 6 <i>Chair: Simon Turner</i>			Marina Room
0925 – 0930	Welcome to Day 3		
0930 – 1015	Sponsored Guest Speaker Mental models of electromagnetic waves and life Dr Julie McCredden, President, ORSAA		Sponsored by  ORSAA Oceania Radiofrequency Scientific Advisory Association
1015 – 1050	<i>Morning Refreshments & Trade Exhibition</i>		Island Courtyard & Jetty Room
1050 – 1210	Concurrent Session 6.1 – Marina Room Theme: Non-Ionising Radiation 1 (RF-EMF) <i>Chair: Bill Bartolo</i>	Concurrent Session 6.2 - Crystal Sapphire Room Theme: Regulatory <i>Chair: Paula Veevers</i>	
1050 – 1110	The WHO systematic reviews into RF and health: (Part I) what are they and why are they important Associate Professor Ken Karipidis, ARPANSA	Australian Safeguards and Non-Proliferation Office (ASNO) permits to hold nuclear material—all your questions answered! Peter Nolan, Australian Safeguards and Non-Proliferation Office	
1110 – 1130	The WHO systematic reviews into RF and health: (Part II) what have they found	ANSTO Science and Technology for 21st Century RNEPR capability Joshua Reus-smit, ANSTO	

	Associate Professor Ken Karipidis, ARPANSA	
1130 – 1150	Has public RF-EMF exposure in Australia changed over a decade? Dr Chhavi Raj Bhatt, ARPANSA	How does ARPANSA Influence and Adopt International Standards for Radiation Protection in Australia? Dr Marcus Grzechnik, ARPANSA
1150 – 1210	Does population density affect personal far-field radiofrequency–electromagnetic exposures? Findings from Gold Coast measurements Dr Chhavi Raj Bhatt, ARPANSA	USP’s Journey in Nuclear Science: Past, Present and Future Endeavours Neil Singh, ARPS Pacific Outreach Initiative/University of South Pacific
1210 - 1315	<i>Lunch & Trade Exhibition</i>	
Plenary Session 7 <i>Chair: Frank Harris, Rio Tinto</i>		Island Courtyard & Jetty Room
1315 – 1405	Panel Discussion: The latest revision of the ICRP Recommendations: Are the changes fit for purpose for Australia and New Zealand? Panelists: Jim Hondros, JRHC Paula Veevers, Queensland Health Brent Le Vert, Office of Radiation Safety	
1410 – 1510	Concurrent Session 7.1 – Marina Room Theme: Non-Ionising Radiation 2 (RF-EMF) <i>Chair: Phil Allanson</i>	Concurrent Session 7.2 - Crystal Sapphire Room Theme: NORM 2 <i>Chair: Dr Cameron Lawrence</i>
1410 – 1430	Bridging the Gap: Advancements in Online Radiofrequency Monitoring for Enhanced Environmental Surveillance Victor Leach, ORSAA	Radon Decay Product (RDP) Management in BHP Copper South Australia Katrina Taloni, BHP
1430 – 1450	The to-date proposed biomarkers of EHS are not known/proven to be affected by RF-EMF exposures Adjunct Professor Dariusz Leszczynski, University of Helsinki	Introduction of Norm-II Guide in the Western Australian Mining Industry Jubin Koshy, Department of Energy, Mines, Industry Regulation and Safety

1450 – 1510	The Importance of Being Uncertainty-Aware in Electromagnetic Measurements Simon Turner, Sensaweb	Gravimetric Field Estimation of Radioactivity in Soils at a NORM Impacted Site Matthew Crow, Environmental Resources Management Australia Pty Ltd
1510 – 1530	<i>Afternoon Refreshments & Trade Exhibition</i>	
1530 – 1600	Awards Presentation Closing remarks and Conference Close Brent Rogers, ARPS 2024 Convenor	Island Courtyard & Jetty Room Marina Room
THURSDAY 24 OCTOBER 2024		
0900 - 1530	<u>Radon Symposium</u>	Crystal Sapphire Room

The ARPS 2024 Conference reserves the right to amend or alter any advertised details relating to dates, program and speakers if necessary and without notice, as a result of circumstances beyond their control. All attempts will be made to keep any changes to an absolute minimum.

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