

PROGRAM

SUNDAY 29 OCTOBER 2023		
1300 – 1700	Exhibitor Bump In	SWRCC Veranda
1300 – 1700	Registration Desk Opens	SWRCC Veranda
1600 - 1800	ARPS Executive Meeting	Conference Room 2
1900 – 2100	Welcome Reception	SWRCC Veranda

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MONDAY 30	OCTOBER 2023		
0800 – 1700	Registration Desk Opens		SWRCC Veranda
0800 – 1700	Speaker Room Opens		C&E Boardroom
0800 – 1550	Exhibition Opens Enjoy barista made coffee with thanks to	Australian Government ANSTO	SWRCC Veranda
0900 - 1025	Plenary Session 1 Chair: Drew Watson		
0900 – 0903	Convenor Welcome Drew Watson		
0903 - 0915	Welcome to Country Uncle John		Conference Room 1
0915 – 0925	Convenor Opening Comments Drew Watson		
0925 – 0935	Opening Address Speaker TBC		
0935 – 1025	Keynote Address Jade Ritchie Coming together for Country		
1025 – 1055	Morning Refreshments & Trade Exhibition With thanks to our Morning Refreshments sponsor	MES	SWRCC Veranda

1100 - 1240	Concurrent Session 1	Concurrent Session 1.1	
	Theme: Mining & Nuclear Technology	Theme: Protection in Healthcare, Part 1	
	Room: Conference Room 1	Room: Conference Room 3	
	Chair: Dr Riaz Akber		
1100 – 1120	Jim Hondros, JRHC	Dr Samer Bakr, Cyclowest	
	The ICRP Review and Impacts for Uranium Mining and NORM	Findings of the Cyclowest Radiation Survey for the GE PETtrace Cyclotron at the Bayswater Site	
1120 – 1140	Lauren Steen, Radiation Services WA	Patrick Niemiec, South East Sydney Local Health District	
	Exploring for Rare Earths in Australia – Striking a Balance	Estimating Effective Dose Rate From External Exposure To Radioactive Waste Discharged From A Busy Nuclear Medicine Service	
1140 – 1200	Peter Nolan, Australian Safeguards and Non-Proliferation	Stephen Taylor, AdvanCell	
	Office	Australian First: Lead-212 Labelled Radioligand Being Trialled as a new	
	What happens at Nuclear Safeguards Inspections in Australia conducted by the International Atomic Energy Agency	Prostate Cancer Therapy	
1200 – 1220	Blake Orr, ARPANSA	Cameron Jeffries, South Australia Medical Imaging	
	Update to the Reference Accident for Visiting Nuclear-Powered Vessels	Holistic Radiation Protection	
1220 – 1240	William Shackel, Nuclear for Australia	Prof John D Mathews, University of Melbourne	
	A 17-year-old's views on the Nuclear Energy Debate	Modelling cancer risks following low-dose radiation from CT scans	
1240 –1340	Lunch & Trade Exhibition & Posters Viewing With thanks to our Lunch sponsor	SWRCC Veranda	

	Concurrent Session 2	Concurrent Session 2.1	
1345 - 1515	Theme: Radiation Protection Culture and Education	Theme: Environment & Dosimetry	
	Room: Conference Room 1	Room: Conference Room 3	
	Chair: Bridget McCarron		
	Australian Government Department of Industry, Science and Resources Australian Radioactive Waste Agency	Australian Government Department of Industry, Science and Resources Australian Radioactive Waste Agency	
1345 – 1400	Annelize Van Rooyen, Tellus Holdings	Dominique Scott, Radiation and Nuclear Sciences Unit	
	A healthy Radiation Protection Culture starts at home	Uptake of NORM in Queensland native food species	
1400 – 1415	ТВС	Blake Orr, ARPANSA	
		Radiological dose from seafood: Australian estimates within the context of	
		a new global assessment	
1415 – 1430	Daniel Bellifemine, EPA South Australia	Peter Medley, Forensic and Scientific Services	
	Preparation and implementation of Australia's most recent	Groundwater influence on uptake of radium, polonium-210 and lead-210	
	radiation safety legislation	in freshwater mussels (Velesunio Ambiguus)	
1430 – 1445	Henriëtte Rossouw, Maniacs Learn Through Play	Dr Arne Biesiekierski, ARPANSA	
	Training the next generation of radiation professionals: The	Updating the Australian Drinking Water Guidelines: Changes made and	
	Importance of Play-Based STEAM Education for the Future	lessons learned in updating the radiological guidance	
1445 – 1500	Dr Mamun Haque, ARPS	Trent Elms, ARPANSA	
	Radiation Protection Educator in a Multilingual and	Dosimetry Service Provider Submissions to the Australian National	
	Multidisciplinary Environment – Veni Vidi Vici – A Personal	Radiation Dose Register	
	Experience		
1500 – 1515	Brent Rogers, South East Sydney Local Health District	Dr Cameron Lawrence, ARPANSA	
	ARPAB Certification to Present	Australian National Radiation Dose Register - Future Directions	

1515 – 1545	Afternoon Refreshments & Trade Exhibition With thanks to our Afternoon Refreshments sponsor	SWRCC Veranda
1550 - 1720	Panel Discussion: Setting the Scene for Nuclear Room: Conference Room 1 Mediator: Simon Critchley Panel Members: Dr Peter Bryant, EDF Energy Dr Marcus Grzechnik, ARPANSA Joanne Lackenby, Frazer-Nash Consultancy Henriëtte Rossouw, Maniacs Learn Through Play William Shackel, Nuclear for Australia Jasmin Diab, Global Nuclear Security Partners Australia Dr Joanne Lackenby, Frazer-Nash Consultancy	
1900 - 2200	Conference Dinner proudly sponsored by TELLUS	The Boatshed

TUESDAY 31	OCTOBER 2023	
0730 – 1700	Registration Desk Opens	SWRCC Veranda
0730 – 0845	U.S NRC RAMP - Overview and demonstration of computer codes for radiation assessments Presenters: Katherine Gouin, James De Corrado, Blake Orr & Callum Watson The United States Nuclear Regulatory Commission (NRC) maintains and develops a series of computer codes used for radiation assessments through their Radiation Computer Code Analysis and Maintenance program (RAMP). In 2019 APRPANSA signed a formal agreement to join RAMP and has since expanded its use of the RAMP codes. Federal and State government agencies are also granted access to the RAMP codes under the ARPANSA agreement. This workshop will provide an overview of the RAMP codes, walk through the content available on the RAMP website and demonstrate some worked examples using the codes, namely: - VARSKIN+: Primarily used for undertaking skin dose assessments, recent upgrades to the software now allow assessments of eye, wound and neutron doses to be estimated. - Visual Sample Plan: This tool supports development of defensible sampling plans for radiation assessments.	Conference Room 3
0830 - 1600	Speaker Room Opens	C&E Boardroom
0845 – 1550	Exhibition Opens Enjoy barista made coffee with thanks to Australian Government Australian Government	SWRCC Veranda

0900 – 1040	Plenary Session 2		
	Chair: Jim Hondros		
0900 – 0905	Welcome to Day 2		
	Jim Hondros (ARPS President)		
0905 – 0950	Boyce Worthley Oration		Conference Room 1
	Dr Riaz Akber		
	Radiation detection for radiation protection		
0950 – 1040	Keynote Address		
	Assoc Prof Susanna Guatelli	Australian Government Australian Radiation Protection and Nuclear Sakely Agency	
	Human missions to Mars: a space radiation odyssey	arpansa	
1040 – 1110	Morning Refreshments & Trade Exhibition		SWRCC Veranda
1115 -1235	Concurrent Session 3	Concurrent Session 3.1	
	Theme: Managing Waste	Theme: Radiation Protection Mod	delling
	Room: Conference Room 1	Room: Conference Room 3	
	Chair: Bruce Wallace		
1115 – 1135	Bryn L. Jones, entX Limited	Dr David Bolst, University of Woll	ongong
	New Uses for "Old" Radioisotopes	Shielding of defence personnel in	gamma radiation environments
		using anthropomorphic phantoms	in Geant4
1135 – 1155	Stuart Parr, ARPS	Tim Doughney, University of Adel	laide
	Intractable Waste Disposal Facility, Mount Walton East	Modelling detector response func	tions to NORM and source
		radiation for arbitrary detector ge	ometries
1155 – 1215	Bill Miller, Australian Radioactive Waste Agency	Daniel De Oliveira Damas, Depart	ment of Defence
	Safe disposal of radioactive wastes arising from research, and the	Background Compensated Neutro	n Spectrum Unfolding with a NNS
	production and use of radiopharmaceuticals in Australia	and the Shadow-Cone Technique	

1215 – 1235	Patrick Day, ANSTO	Dr David Bolst, University of Wollongong	
	ANSTO Synroc Waste Treatment Plant for Molybdenum-99 Nuclear Medicine Production	Using an iterative shielding approach for the first carbon ion therapy facility in the US by means of Geant4	
1235-1255	Glenn Riley, Department of Health Disposal of Radioactive Material	Dr Anson Chau, University of South Australia A scoping review of the use of simulation in radiation protection education and training in healthcare professions	
1255 – 1355	Lunch, Trade Exhibition & Posters Viewing	SWRCC Veranda	

1400 - 1605	Concurrent Session 4	SPERA Workshop: Radiation Safety in Laboratories	
	Theme: Non-Ionising Radiation	Room: Conference Room 3	
	Room: Conference Room 1		
	Chair: Philip Allanson	Presenter: Dr Stephen Long, ARPANSA	
1400 - 1415	Assoc Prof Dariusz Leszczynski, University of Helsinki The lack of international and national health policies to protect persons with self-declared electromagnetic hypersensitivity	This workshop provides an overview of radiation protection in the laboratory setting, with practical advice and specific reference to Australian Standard 2243, part 4:	
1415 – 1430	Victor Leach, Oceania Radiofrequency Scientific Advisory Association Wireless technology is another environmental stressor. Are there engineering solutions that can reduce exposure (ALARA)?	 Basics of Radiation Protection – Dose and Risk, ICRP and IAEA Basic Safety Standards AS/NZS 2243.4 – A Practical Standard for Radiation 	
1430 – 1445	Assoc Prof Ken Karipidis, ARPANSA A Review of the Research into the Effects of Radiofrequency Electromagnetic Fields on Animals and Plants in the Environment	Safety in Laboratories 3) Personal Radiation Monitoring – Assessing External and Internal Dose 4) Area Monitoring and PPE – Good Laboratory Practice	
1445 – 1500	Dr Chhavi Raj Bhatt, ARPANSA Personal radiofrequency–electromagnetic exposures in regional Victoria, Australia	* A Cook Education of Tractice	
1500 – 1515	Steven Weller, Oceania Radiofrequency Scientific Advisory Association 5G Safety – State of the art from scientific reviews and their findings	SOUTH PACIFIC ENVIRONMENTAL RADIOACTIVITY ASSOCIATION	
1515 -1535	Q & A Session (presenters as panel)		
1535 – 1605	Afternoon Refreshments & Trade Exhibition	SWRCC Veranda	

1610 - 1725	Concurrent Session 5	Concurrent Session 5.1	
	Theme: Protection in Healthcare, Part 2	Theme: Existing Exposure Situa	tions – from Here to Beyond
	Room: Conference Room 1	Room: Conference Room 3	
		Chair: Dr Riaz Akber	
1610 – 1625	Cameron Jeffries, South Australia Medical Imaging	Frank Harris, Rio Tinto	
	Experiences with the Draft ARPANSA X-ray Apparatus testing standard	A community based environmen	ital radioactivity study
1625 – 1640	Brandon Preap, Hunter New England Imaging	Drew Watson, Dept of Health F	orensic and Scientific Services
	Unplanned Radiation Exposure Following Extravasation: At What	Mapping Radium in Creek Bed Se	ediment from Introduced
	Stage of a Contrast-Enhanced CT Procedure will the Cumulative	Groundwater	
	Effective Dose be Greater than 1 mSv?		
1640– 1655	Nehal Ahmed & Dr Shaun Rose-Nel, Radiation Protection Unit	Dr James Eagle, Institute of Envi	ronmental Science and Research
	Dental Cone Beam CT: Regulators Conundrum	Radon Concentration in Workpla	aces across New Zealand
1655 – 1710	Dr Martin Butson, NSW Environment Protection Authority	Marc Salmon, Easterly Point Env	vironmental P/L
	Radiation in the Bereavement Industry	Translation of dose criteria to ASC NEPM land use criteria	
1710 – 1725	John Bus, ANSTO	Dr Bhaskar Mukherjee, University of Sydney	
	Communicating Potential Skin Dose from Radioactive Contamination	tion ROBI a Robust Integrating Proton Fluence Counter based on	
	at ANM	GaAs-LED: results of a recent nea	ar equatorial LEO Space Mission
1730 – 1830	ARPS AGM	1	Conference Room 1

WEDNESDAY 1 NOVEMBER 2023				
0715 – 0845	Breakfast Workshop (Registration required)	Conference Room 3		
	Working Through Example Problems on ARPAB CRSA Exam Presenters: Brent Rogers & Cameron Jeffries During this workshop, the presenters will work through a number of sample problems that a candidate might expect to see on the ARPAB Consulting Radiation Safety Advisor (CRSA) exam. As many of the examples will include mathematical problems, participants are asked to please bring their scientific calculators. Participation is strongly recommended for anyone considering accreditation. Participants are also encouraged to attend Brent Rogers' presentation during the plenary sessions which will include discussion on the accreditation process.			
0800 – 1630	Registration Desk Opens	SWRCC Veranda		
0830 – 1600	Speaker Room Opens	C&E Boardroom		
0830 – 1530	Exhibition Opens Enjoy barista made coffee with thanks to Australian Government ANSTO	SWRCC Veranda		
0900 - 1005	Plenary Session 3			
0900 – 0905	Opening Comments			
0905 – 0955	Keynote Address Dr Peter Bryant Clear as Mud: The Radiation Protection Challenges of New Nuclear Build	Conference Room 1		

0955 – 1015	Daniel Bellifemine, EPA South Australia		
	Why Sustainable Development Is The Most Important Issue Facing Radiation Protection		
1015 – 1045	Morning Refreshments & Trade Exhibition	SWRCC Veranda	
1050 - 1230	Plenary Session 4		
	Theme: Source Recovery & Largescale Mapping		
	Room: Conference Room 1		
1050 – 1105	Simon Booth, Radiation Services WA		
	Missing Radioactive Source Incident in Western Australia: Response; Investigation; and Contributing Factors		
1105 – 1120	Dr Marcus Grzechnik, ARPANSA		
	Something 'hot' is missing in the outback – how can the Commonwealth help?		
1120 – 1135	Frank Harris, Rio Tinto		
	What caused a radioactive source to be lost in the WA Outback		
1135 – 1150	Callum Watson, ARPANSA		
	Wide Area Gamma Radiation Mapping: Is Australia Ready in an Emergency?		
1150 – 1205	Matthew Wiggins, Radiation and Nuclear Sciences		
	Baseline Mapping of Ambient Gamma Radiation Dose Rates in Queensland		
1205 – 1230	Q & A Session (presenters as panel)		
1230 – 1330	Lunch & Trade Exhibition	SWRCC Veranda	

1335 - 1450	Concurrent Session 6 Theme: Hazards & Emergency Response Room: Conference Room 1	Concurrent Session 6.1 Theme: Instrumentation Room: Conference Room 3	
1335 – 1350	Sarah Mullins, QLD Health	Ismael Khan, Safe Radiation	
	Emergency Response and Radiation Hazards	Thoughts about charcoal canisters flux measurements	without charcoal for radon activity
1350 – 1405	David Kruss, EPA South Australia	Leisel Green, ARPANSA	
	South Australia's Emergency Response Capability	Monitoring for accidental radiologi extension of the caesium extraction 90	
1405 – 1420	Dr Marcus Grzechnik, ARPANSA	Dr Michal Fejgl, National Radiation Protection Institute	
	Australia's Participation in the NEA's INEX-6 Recovery Exercise	Development of the new tools for equivalent and rainwater contamir	•
1420 – 1435	James De Corrado, ARPANSA	Michelle Thomas, ARPANSA	
	Radiological Hazard Assessment of the ARPANSA Yallambie Site	In-situ gamma spectrometry of the Territory	Koongarra source, Northern
1435 – 1450	Lachlan Whittle, ARPANSA	Pierre Bouchereau de Pury, Radiation and Nuclear Science	
	Australian Radiation Incident Register (ARIR) – Exploring new ways of working	The right tool for the right job	
1450 – 1520	Afternoon Refreshments & Trade Exhibition	SWRCC Veranda	

1525 - 1700	Plenary Session 5 Theme: Past, Present and Future	
1525 – 1545	Darren Billingsley, DBH Radiation Pty Ltd The Triceratops that Roared	
1545 – 1605	Erin McWilliams, ARPANSA Updated Guidance on the Application of Exclusion, Exemption and Clearance of Radioactive Material in Australia Based on International Best Practice	Conference Room 1
1605 – 1625	Paula Veevers & Jim Hondros, ARPS ARPS and Its Future Role	
1625 – 1700	Awards Presentation Closing Remarks and Conference Close	

THURSDAY 2 NOVEMBER 2023		
0845 – 1300	Technical Tour - Centre for Advanced Imaging (Registration required)	University of Queensland

The ARPS 2023 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.

Poster Presentations

Monday 30 October 1240 –1340 Tuesday 31 October 1235 – 1335

Poster Number	Presenter	AFFILIATION	POSTER TITLE
1	Jason Charlwood	University of Adelaide	Quantification of artificially sorbed radionuclides as a proxy for geo- sequestration in geological disposal
2	Pushpendra Chauhan	Radiation and Nuclear Science	When is 99.99% radiochemical pure Gd-153 source okay to dispose?
3	Jefferson Chen	ARPANSA	Proficiency Testing – Monitoring Capability and Quality
4	Andrew Chicco	Westmead Hospital	Radiation Safety Issues in a Centralised ROLLIS Administration Program
5	Joonbum Choi	Korea Institute of Nuclear Safety	Performance Test of Radiation Measuring Instruments for Application to Various Radiation Fields of Radiation Generating Devices
6	Dr Tom Cresswell	ANSTO	Assessing potential environmental impacts of NORMs from offshore oil and gas infrastructure decommissioning
7	Hannan Dempsey Rachel Williams Lachlan Whittle	ARPANSA	The ARPANSA Graduate Program
8	Dr Jennifer Diffey	Hunter New England Imaging	Evaluation of Radiation Dose Reduction to Cardiologists by Tableside Shielding Devices
9	Caitlin Etheridge Waylon King	ANSTO	The Nuclear Safety Technician Program

10	Liesel Green	ARPANSA	A decade of radiocaesium monitoring using the Caesium Extraction Unit- a review
11	Assoc Prof Dariusz Leszczynski	University of Helsinki	Scientific inadequacy of the to-date executed research on electromagnetic hypersensitivity
12	Assoc Prof Dariusz Leszczynski	University of Helsinki	Wireless radiation and health: The evidence is not settled yet
13	Dr Erin Mckay	South East Sydney Local Health District	Pixelized Estimation of Tertiary Scatter Intensity for Shielding Assessment
14	Erin McWilliams	ARPANSA	Classification of Radioactive Waste in Australia
15	Erin McWilliams	ARPANSA	The Safety Case for a Radioactive Waste Disposal Facility
16	Rik Nezich	Sir Charles Gairdner Hospital	Recommendations for auditing of dental intraoral bitewing X-ray doses against Local Diagnostic Reference Levels in Western Australia
17	Aithan Roufos	University of Adelaide	Ultraviolet-C Detectors for Ionising Radiation Surveys
18	Zoe Thomas	Monash University	Injuries and adverse effects from cosmetic treatments that use non-ionising radiation
19	Bradley Van Luenen	Queensland Department of Health	Future Radiation Professionals: views of students and current workers on the radiation protection skills shortage
20	Drew Watson	Dept of Health Forensic and Scientific Services	Wipe Tests of Portable Density Moisture Gauges

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