

Appendix 9: Publications

Codes of Practice and Safety Guides

Australian Radiation Protection and Nuclear Safety Agency. *Safety Guide for the Approval Processes for the Safe Transport of Radioactive Materials* (2012) Radiation Protection Series No. 2.2.

Book Chapters

Martin P and McBride J, *Radionuclide behaviour and transport in the tropical atmospheric environment* Chapter 2, (2012) Tropical Radioecology, pp. 59-91. Elsevier.

Vajda N, Martin P and Kim C-K, *Alpha Spectrometry* Chapter 6, Handbook of Radioactivity Analysis (3rd ed.) (2012) pp. 363-422. Elsevier.

Journal Articles

Alqathami M, Blencowe A, Qiao G, Butler D and Geso M, *Optimization of the sensitivity and stability of the PRESAGE TM dosimeter using trihalomethane radical initiators*, Radiation Physics and Chemistry 81 (2012) 867–873.

Brady Z, Cain T and Johnston P, *Justifying referrals for paediatric CT*, Medical Journal of Australia 197 (2): 95-98, 16 July 2012.

Brady Z, Cain T, Ramanauskas F and Johnston P, *Assessment of paediatric CT dose indicators for the purpose of optimisation*, The British Institute of Radiology, doi: 10.1259/bjr/28015185, 27 July 2012.

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Chun K, Butler D, Webb D, Mahant A, Meghzifene A, Lee J, Hah S, Kadni T, Zhang Y, Kurosawa T, Msimang Z and Caseria E, *Final report on APMP RI(I)-K1: APMP/TCRI key comparison report of measurement of air kerma for 60Co gamma-rays*, Metrologia, 2013, 50, Tech. Suppl., 06011.

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Gies P and McLennan A, *Everyday and High-UPF Sun-Protective Clothing*, The Melanoma Letter (2012) Vol. 30, No. 2, pp7-8.

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Haworth A, Butler D, Wilfert L, Ebert M, Todd S, Hayton A and Kron T, *Comparison of TLD calibration methods for 192Ir dosimetry*, Journal of Applied Clinical Medical Physics, 14, p258-272, 2013.

Hayton A, Wallace A, Marks P, Edmonds K, Tingey D and Johnston P, *Australian diagnostic reference levels for multi detector computed tomography*, Australian Physical & Engineering Sciences in Medicine 36(1) (2013) 19–26.

Hayton A, Wallace A, Marks P, Edmonds K, Tingey D and Johnston P, *Australian per caput dose from diagnostic imaging and nuclear medicine*, Radiation Protection Dosimetry, (2013), doi:10.1093/rpd/nct101.

Lonski P, Taylor M, Franich R, Harty P and Kron T, *Assessment of leakage doses around the treatment heads of different linear accelerators*, Radiat. Prot. Dosimetry 154 (4) (2012) 304-312.

Lye J, Butler D, Ramanathan G and Franich R, *Spectral differences in 6 MV beams with matched PDDs and the effect on chamber response*, Phys. Med. Biol. 57 No. 22 (2012).

Marks P, Wallace A and Hayton A, *Report on the European DOSE DATAMED projects*, The Gamma Gazette: Journal of the Australian and New Zealand Society of Nuclear Medicine, March 2013, p18-19.

Mathews J, Forsythe A, Brady Z, Butler M, Goergen S, Byrnes G, Giles G, Wallace A, Anderson P, Guiver T, McGale P, Cain T, Dowty J, Bickerstaffe A and Darby S, *Cancer risk in 680 000 people exposed to computed tomography scans in childhood or adolescence: data linkage study of 11 million Australians*, BMJ 2013; 346:f2360 doi:10.1136/bmj.f2360.

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Long S, Sdraulig S, Tate B and Martin P, *A survey of naturally occurring radioactive material associated with mining*, ARPANSA Technical Report TR161, August 2012.

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O'Brien R, Carpenter J, Grzechnik M, Long S, Green L, *Maralinga and Oak Valley Dose Assessment – 2011*, ARPANSA Technical Report TR158, July 2012.

Urban D, *Isotopic ratios of uranium in uranium salts and pitchblende*, ARPANSA Technical Report 160, July 2012.

Conference Papers

Bokor I and Sdraulig S, *Analysis of food samples following the Fukushima incident*, South Pacific Environmental Radioactivity Association Conference, Sydney, October 2012.

Butler D, Webb D, Oliver C, Lye J, Harty P, Ganesan R, Anele N, Wright T and Cole A *The Australian gray – how does it compare overseas?*, Engineers and Physical Scientists in Medicine conference, Gold Coast, 2-6 December 2012.

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Ganesan G, Harty P, Butler D, Webb D, and Hyungi Jo P, *Use of diodes in radiation protection of patients in radiotherapy*, Australian Radiation Protection Society conference, Sydney, 14-17 October, 2012

Ganesan R, Harty P, Oliver C, Butler D and Webb D, *Matlab based data analysis of calorimetry runs and ion-chamber calibrations at ARPANSA*, Engineers and Physical Scientists in Medicine conference, Gold Coast, 2-6 December 2012.

Ganesan R, Harty P, Oliver C, Wright T, Cole A, Butler D and Webb D, *Calorimetric Comparison of Absorbed Dose to Water, Between ARPANSA and BIPM*, Engineers and Physical Scientists in Medicine conference, Gold Coast, 2-6 December 2012.

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- Grzechnik M and Tinker R, *Radiological Protection of the Environment in Australia – Developing a Safety Guide*, ARPS Conference, Sydney, October 2012.
- Harty P and Webb D, *Safe Installation of a 140 TBq 60Co Teletherapy Source at ARPANSA*, Australian Radiation Protection Society conference, Sydney, 14-17 October, 2012.
- Harty P, *Direct calibration of Australian hospital reference chambers in linac beams*, International Conference on Radiation Protection in Medicine, Bonn, 3-7 December 2012.
- Hayton A and Wallace A, *Australian adult diagnostic reference levels for multi detector computed tomography*, Engineering and Physical Sciences in Medicine Conference (EPSM), Gold Coast, 2-6 Dec 2012.
- Hayton A and Wallace A, *Australian per caput dose from diagnostic imaging and nuclear medicine*, Engineering and Physical Sciences in Medicine Conference, Gold Coast, 2-6 December 2012.
- Hirth G, *Concentration ratios in non-human biota inhabiting Australian Uranium Mining environments*, ARPS Conference, Sydney, October 2012.
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- Johnston P, *Australian Per Caput Dose from Diagnostic Imaging and Nuclear Medicine*, Australian Radiation Protection Society Conference, Sydney, October 14-17, 2012.
- Long S, *Maralinga: then and now, 30 years of monitoring a nuclear test site*, South Pacific Environmental Radioactivity Association Conference, Sydney, October 2012.
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- O'Brien R, Carpenter J, Grzechnik M, Long S and Green L, *Maralinga Reassessment*, ARPS Conference, Sydney, October 2012.
- Oliver C, Butler D, Webb D, Wright T, Ramanathan G, Harty P, Anele N and Cole A, *Non-waterproof and waterproof secondary standards*, Engineers and Physical Scientists in Medicine conference, Gold Coast, 2-6 December 2012.
- Orr B, *National Report, ARGOS Consortium Meeting*, September 2012.
- Orr B, Schoeppner M, Tinker R and Plastino W, *Detection of Radioxenon in Darwin, Australia following the Fukushima Dai-ichi nuclear power plant accident*, South Pacific Environmental Radioactivity Association Conference, Sydney, October 2012.
- Sdraulig S, *Radiation emergency response – the laboratory perspective*, South Pacific Environmental Radioactivity Association Conference, Sydney, October 2012.
- Tinker R, *The Japan Nuclear Accident*, International Uranium Conference, Fremantle, July 2012.
- Urban D, *Uranium isotopic ratio determinations in uranium salts and pitchblende*, South Pacific Environmental Radioactivity Association Conference, Sydney, October 2012.
- Wright T, Lye J, Butler D and Webb D, *Commissioning the Elekta MLCi and MLCi2 leaf designs using BEAMnrc*, Engineers and Physical Scientists in Medicine conference, Gold Coast, 2-6 December 2012.
- Wright T, Lye J, Harty P, Ramanathan G, Webb D, Oliver C and Butler D, *Uncertainties in a Monte Carlo linac model – validation for primary standard accuracy*, The International Conference on the Use of Computers in Radiotherapy (ICCR), Melbourne, 6-9 May 2013.

Presentations and Seminars

- Collett S, *The Australian National Radiation Dose Register for Uranium Mine Workers*, Health Protection Agency (HPA), England, November 2012.
- Collett S, *The Australian National Radiation Dose Register for Uranium Mine Workers*, Health Canada, Canada, November 2012.

- Collett S, *National Uniformity and Optimisation of Radiation Protection for Workers*, Siemens Low Dose Academy held in Perth, Adelaide, Melbourne, Sydney, Brisbane and Auckland (New Zealand), March 2013.
- Dunn L, Lye J, Kenny J, Lehmann J and Williams I, *Commissioning of Optically Stimulated Luminescence Dosimeters (OSLD) for use in Radiotherapy*, EPSM, Gold Coast, 6 December 2013.
- Dunn L, Lye J, Kenny J, Lehmann J, Kron T and Williams I, *Commissioning of Optically Stimulated Luminescence Dosimeters for use in Radiotherapy*, ACPSEM Queensland branch meeting, QUT Brisbane, 28 September 2012.
- Guilfoyle R, *The Australian National Radiation Dose Register: The Northern Territory*, Supervising Scientist Division, Darwin, July 2012.
- Hirth G, *Concentration ratios in non-human biota inhabiting Australian Uranium Mining environments*, Public Health England, MODARIA, Vienna, May 2013.
- Johnston P, *The Nuclear Accident at Fukushima*, Flinders Centre for Innovation in Cancer, 9 August 2012.
- Kenny J, Lehmann J, Lye J, Dunn L and Williams I, *The ACDS: The logistics of a national dosimetry audit service*, EPSM, Gold Coast, 6 December 2013.
- Kenny J, Lehmann J, Lye J, Dunn L and Williams I, *The Australian Clinical Dosimetry Service (ACDS) Methodology for Level II Audit Design with a National Comprehensive Dosimetry Audit Program*, EPSM 2012, Gold Coast, 6 December 2013.
- Kenny J, Lehmann J, Lye J and Dunn L, *The Australian Clinical Dosimetry Service (ACDS)*, Sir Charles Gardiner Hospital Seminar, Perth, 22 August 2012.
- Lehmann J, *Current Status of the ACDS Audit Program and Future Directions*, ACPSEM Queensland branch meeting, QUT Brisbane, 28 September 2012.
- Lehmann J, Kenny J, Lye J, Dunn L and Williams I, *Going the Whole Way – Level III Audits of the Australian Clinical Dosimetry Service*, EPSM, Gold Coast, 6 December 2013.
- Lehmann J, Kenny J, Lye J, Dunn L and Williams I, *The Australian Clinical Dosimetry Service (ACDS) : Design and Implementation of a Three Level Audit Programme for Australian Radiation Oncology Facilities*, Wellington Blood and Cancer centre Seminar, Wellington, New Zealand, 4 March 2013.
- Lehmann J, Kenny J, Lye J, Kron T and Williams I, *Update on the Level III Audits of the Australian Clinical Dosimetry Service (ACDS)*, AIR, Hobart, Tasmania, 9 March 2013.
- Lye J, Kenny J, Lehmann J, Dunn L, Kron T and Williams I, *ACDS Level I remote OSLD audit – from PMMA blocks to accurate reference doses*, EPSM, Gold Coast, 6 December 2013.
- Martin P, *System of radiation protection in uranium mining*, IAEA Training Meeting on Effective Regulatory and Environmental Management of Uranium Production, Darwin, August 2012.
- Muston S, *ARPANSA Emergency Preparedness and Response*, IAEA Workshop, Singapore, December 2012.
- Tinker R, *Dose Register and Radiation Protection of the Environment*, Licence Holder Forum Meeting, Sydney, November 2012.
- Williams I, *Australian Clinical Dosimetry Service*, RANZCR Annual Scientific Meeting, Cairns, 26 July 2012.
- Williams I, Kenny J, Lye J, Lehmann J, Dunn L and Johnston P, *The Australian Clinical Dosimetry Service: A national audit in the Australian context*. IEAE International Conference on Radiation Protection in Medicine - Setting the Scene for the Next Decade, Bonn, Germany December 2012.
- Williams I, Lehmann J, Kenny J, Lye J and Dunn L, *The ACDS: Where are we now? End of Year 2012*, EPSM, Gold Coast, 6 December 2013.

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Charles P, Crowe S, Kairn T, Kenny J, Lehmann J, Lye J, Dunn L, Hill B, Knight T, Langton C and Trapp J, *The effect of very small air gaps on small field dosimetry*, Phys. Med. Biol., 57, p6947-6960 (2012).

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