

## Appendix 10: Publications

### Radiation Protection Series

Australian Radiation Protection and Nuclear Safety Agency, *RPS F-1 Fundamentals for Protection Against Ionising Radiation* (2014). This publication, together with the *Code of Practice for Radiation Protection in Planned Exposure Situations as Applied to Workers, the Public and the Environment* (expected to be published in 2014) will supersede *RPS 1 Recommendations for Limiting Exposure to Ionising Radiation (1995) and National Standard for Limiting Occupational Exposure to Ionizing Radiation* (republished 2002).

### Book chapters

Gies, P, Henderson, S & King, K 'Chapter 2: Ultraviolet Radiation (UVR) – Nuts and bolts of the big skin cancer factor'. (Editor Terry Slevin WACC). In Press.

Gies, P, McLennan, A & Javorniczky, J 'Chapter 4: UV Protection by Clothing, Umbrellas and Hats'. in *Sun & Health* (Editor Terry Slevin WACC). In Press.

### Journal articles

Harty, P, Lye, J, Ramanathan, G, Butler, D, Hall, D, Hall, C, Stevenson, A & Johnston, P 2014, 'Absolute x-ray dosimetry on a synchrotron medical beam line with a graphite calorimeter', *Medical Physics* 41, 052101.

Karipidis, K 2014, 'Assessment of bias in a survey of residential magnetic fields in Melbourne', Australia, *Radiat Prot Dosimetry* in press.

Karipidis, K 2014, 'Survey of residential power-frequency magnetic fields in Melbourne', Australia, *Radiat Prot Dosimetry*. In press.

Lehman, J, Dunn, L, Lye, J, Kenny, J, Andrew, C, Alves, D, Cole, A, Asena, A, Kron, T & Williams, I 2014, 'Angular dependence of the response of the nanoDot OSLD system for measurements at depth in clinical megavoltage beams', *Medical Physics* 41, 061712; doi: 10.1118/1.4875698.

Lye, J, Dunn, L, Kenny, L, Lehman, J, Kron, T, Oliver, C, Butler, C, Alves, A, Johnston, P, Franich, R & Williams, I 2014, 'Remote auditing of radiotherapy facilities using optically stimulated luminescence dosimeters', *Medical Physics* 41, 032102; doi: 10.1118/1.4865786.

Orr, B, Schöppner, M, Tinker, R & Plastino, W 2013, 'Detection of radioxenon in Darwin, Australia following the Fukushima Dai-ichi nuclear power plant accident'. *Journal of Environmental Radioactivity* 126 (0), 40-44.

Picard, S, Burns, D, Roger, P, Harty, P, Ramanathan, G, Lye, J, Wright, T, Butler, D, Cole, A, Oliver, C & Webb, D 2014, 'Key comparison BIPM.RI(l)-K6 of the standards for absorbed dose to water of the ARPANSA, Australia and the BIPM in accelerator photon beams', *Metrologia* 51 Tech. Suppl. 06006.

Schöppner, M, Plastino, W, Hermanspahn, N, Hoffmann, E, Kalinowski, M, Orr, B, Tinker, R 2013, 'Atmospheric transport modelling of time resolved <sup>133</sup>Xe emissions from the isotope production facility ANSTO', Australia. *Journal of Environmental Radioactivity* 126 (0), 1-7.

### Technical reports

Australian Radiation Protection and Nuclear Safety Agency 2014 'Radiofrequency Expert Panel, 2014 Review of Radiofrequency Health Effects Research – Scientific Literature 2000-2012', *ARPANSA Technical Report Series No. 164*.

Collett, S, Guilfoyle, R, Paritsky, B & O'Brien, R 2014 'Proposed Expansion of the Australian National Radiation Dose Register to the Mineral Sands Mining and Processing Industry', *ARPANSA Technical Report Series No. 165*.

Hirth, G 2014 'A review of existing Australian radionuclide activity concentration data in non-human biota inhabiting uranium mining environments', *ARPANSA Technical Report Series No. 167*.

Long, S & Sdraulig, S 2014, 'A Survey of the Capabilities of Australasian Radioanalytical Laboratories', *ARPANSA Technical Report Series No. 168*.

Long, S 2014, 'Australasian Gamma-ray spectrometry Capability Exercise – 2013', *ARPANSA Technical Report Series No. 169*.

Ramanathan, G, Harty, P, Wright, T, Lye, J, Butler, D, Webb, D & Huntley, R 2014, 'The Australian Primary Standard for Absorbed Dose to Water (Graphite Calorimeter)', *ARPANSA Technical Report Series No. 166*.

Wijayasinghe, D & Karipidis, K 2013. 'ARPANSA Preliminary Measurements of Radiofrequency Transmissions from a Mesh Radio Smart Meter', *Technical Report Series No. 163*.

### Conference papers

Alves, A 2013, 'Long Term OSLD Reader Stability in the Level I Audit', *Engineering and Physical Sciences in Medicine Conference*, Perth, 3-7 November.

- Butler, D, Cole, A, Ramanathan, G, Harty P, Lye, J, Oliver, O, Takau, V, Webb, D & Wright T 2014, 'Adapting A Clinical Medical Accelerator For Primary Standard Dosimetry', *The 5th Asian Forum for Accelerators and Dosimetry*, Melbourne, 14-16 January.
- Butler, D 2013, 'Progress report on the APMP comparison of air kerma for ISO x-ray beams APMP.RI(I)-S3', *Asia Pacific Metrology Program Technical Committee for Ionising Radiation Meeting* 24-29 November.
- Butler, D, Cole, A, Harty, C, Oliver, O, Ramanathan, G, Takau, V, Wright, T, Lye, J & Webb, D 2013, 'Shift in absorbed dose when using Monte Carlo kQ factors or ARPANSA direct calibration coefficients with TRS-398', *Engineering and Physical Scientists in Medicine Conference*, 3-7 November 2013 Perth, and at the *Asia Pacific Metrology Program Technical Committee for Ionising Radiation Workshop in Taiwan* 24-29 November 2013.
- Cole, A 2013 'QA measurements on the ARPANSA Elekta synergy linac using a sun nuclear daily QA3™ ion chamber and diode array', *Engineering and Physical Sciences in Medicine Conference*, Perth, 3-7 November.
- Dunn, L 2013, 'Three Years running: ACDS level I photon audit, EPSM Conference', *Engineering and Physical Sciences in Medicine Conference*, Perth, 3-7 November.
- Gies, P, Dunstone, K, King, K, Makin, J & Javorniczky, J 2014, 'Measured Occupational Solar UVR Exposures of Outdoor Workers in Victoria in Winter'. *New Zealand National Institute of Water and Atmosphere (NIWA) UV Workshop Proceedings*, Auckland, 15-17 April.
- Harty, P, Ramanathan, G, Butler, D & Lye, J 2013, 'Calorimetry on the Australian Synchrotron Imaging and Medical Beamline', *Engineering and Physical Sciences in Medicine Conference*, Perth, 3-7 November.
- Henderson, S 2014, 'The future of the ARPANSA UV Monitoring Network'. *NZ National Inst. Water and Atmosphere (NIWA) UV Workshop Proceedings*, Auckland, 15-17 April.
- Harty, P, & Ramanathan, G 2013, 'Response of Active Electronic Radiation Monitors in Pulsed X-ray Beams from Linacs', *Australasian Radiation Protection Society Conference*, Cairns, 13-16 October.
- Hayton, A, Marks, P, Wallace, A, Thomas, P & Johnston, P 2013 'The Australian diagnostic reference level service – what we have learnt so far and how to use DRLs now we have them', *Engineering and Physical Sciences in Medicine Conference*, Perth, 3-7 November.
- Johnston, P, Marks, P, Wallace, A, Thomas, P & Hayton, A 2013, 'A review of the Mathew's et al research: 'Cancer risk in 680 000 people exposed to computed tomography scans in childhood or adolescence: data linkage study of 11 million Australians'', *Australasian Radiation Protection Society Conference*, Cairns, 13-16 October.
- Johnston, P, Williams, I, Lehmann, J, Lye, J, Kenny, J, Dunn, L, Alves, A & Oliver, C 2013, 'The Australian Clinical Dosimetry Service: The findings and the future' *Australasian Radiation Protection Society Conference*, Cairns, 13-16 October.
- Johnston, P, Marks, P, Wallace, A, Thomas, P & Hayton, 2013, A 'The Australian National Diagnostic Reference Level Service – Lessons learnt so far', *Australasian Radiation Protection Society Conference*, Cairns, 13-16 October.
- Johnston, P 2013, 'The Australian Clinical Dosimetry Service at Three Years', *Australasian Radiation Protection Society Conference*, Cairns, 13-16 October 2013.
- Kenny, J 2013, 'ACDS Level IB Audits: Outcomes From Three Years Of Operation', *Engineering and Physical Sciences in Medicine Conference*, Perth, 3-7 November.
- Lehmann, J 2013, 'ACDS - A Nation-Wide Three Level Audit Service - the Australian Experience', *American Association of Physicists in Medicine Meeting*, Indianapolis, United States, 5 August.
- Lehmann, J 2013, 'ACDS Level II Audit: Wedged and Asymmetric Fields with Inhomogeneities for Lung Treatments (WAIL)', *Engineering and Physical Sciences in Medicine Conference*, Perth, 3-7 November.
- Lehmann, J 2013, 'The Australian Clinical Dosimetry Service at three years', *Engineering and Physical Sciences in Medicine Conference*, Perth, 3-7 November.
- Lehmann, J 2013, 'ACDS Level III Audit: What have we found and where are we going', *Engineering and Physical Sciences in Medicine Conference*, Perth, 3-7 November.
- Lye, J 2013 'ACDS Level I remote OSLD audit – Electrons', *Engineering and Physical Sciences in Medicine Conference*, Perth, 3-7 November.
- Lye, J 2013, Oliver, C, Butler, D, Webb, D, 'Progress report on the APMP.RI(I)-K1.1 extended comparison of AIR KERMA at Co-60', *Asia Pacific Metrology Program Technical Committee for Ionising Radiation Meeting* 24-29 November.
- Marks, P 2013, 'From Eyes to Thighs; Radiation Protection in Nuclear Medicine', *Australia & New Zealand Society of Nuclear Medicine One Day Seminar*, Melbourne, October.

Marks, P, Wallace, A, Thomas, P, Hayton, A, Beveridge, T & Johnston, P 2013, 'How Does Your Referral Effect Radiation Protection of the Patient' *Australian College of Rural and Remote Medicine Conference*, Cairns, November.

Marks, P, Wallace, A, Thomas, P, Hayton, A & Johnston, P 2013, 'Report on the application of the European DOSE DATAMED projects and the development of a Radiation Protection of the Patient program in Australia' *Australasian Radiation Protection Society Conference*, Cairns, 13-16 October.

Marks, P, Wallace, A, Thomas, P, Hayton, A, Beveridge, T & Johnston, P 2014, 'Radiation Protection in a Clinical Environment' *Victorian Allied Health Research Conference*, Melbourne, March.

Marks, P, Wallace, A, Thomas, P, Hayton, A & Beveridge, T 2014, 'Nuclear Medicine Diagnostic Reference Levels in Australia – A Pilot Study' *ANZSNM Conference*, Adelaide, April.

Oliver, C 2013, 'ARPANSA Report to 13th Asia Pacific Metrology Program Technical Committee Meeting' Taipei, New Taiwan, *Asia Pacific Metrology Program Technical Committee for Ionising Radiation Meeting* 24-29 November.

Oliver, C, Wright, T, Butler, D, Ramanathan, G, Harty, P, Cole, A, Webb, D & Takau, V 2013, 'Co-60 measurements at ARPANSA', *Engineering and Physical Sciences in Medicine Conference*, Perth, 3-7 November.

Oliver, C, Wright, T, Butler, D, Ramanathan, G, Harty, P, Cole, A, Webb, D & Takau, V 2013, 'ARPANSA electron cross calibration service', *Engineering and Physical Sciences in Medicine Conference*, Perth, 3-7 November.

Ramanathan, G, Harty, P, Oliver, C & Butler, D 2013, 'Performance of ARPANSA Reference Chambers for Direct Calibration in Linac Photons', *Engineering and Physical Sciences in Medicine Conference*, Perth, 3-7 November.

Williams, I 2014, A review of the ACDS pilot: a national dosimetry audit in the Australian context, *Trans Tasman Radiation Oncology Group Conference*, Sunshine Coast, 4 March.

Williams, I 2013, 'The Australian Clinical Dosimetry Service: The findings and the future', *Royal Australian and New Zealand College of Radiologists Conference*, Auckland, 19 October.

Wright, T, Lye, J, Butler, D, Ramanathan, G, Harty, P, Oliver, C, Cole, A & Webb, D 2013, 'Validating a Monte Carlo linac model: how good is good?', *Engineering and Physical Sciences in Medicine Conference*, Perth, 3-7 November.

## Presentations and seminars

Butler, D 2013, 'Introduction to measurement uncertainty', and 'Megavoltage electron beam dosimetry uncertainties', Presentation to trainee medical physicists - Peter MacCallum Cancer Centre, 23 August.

Butler, D 2013, Presentations at ARPANSA's 'External Beam Reference Dosimetry Course - Ion chambers for dosimetry of complex treatment fields', 10-11 October 2013, Lifehouse building, Camperdown, Sydney, *Australasian College of Physical Scientists & Engineers in Medicine Summer School*, Perth, 31 October-2 November.

Collett, S, Guilfoyle, R & Paritsky, B 2013 'Expansion of the Australian National Radiation Dose Register', *38th Australasian Radiation Protection Society Conference*, October, Cairns, Queensland.

Collett, S 2013, 'The Australian National Radiation Dose Register – A Tool for the Optimisation of Worker Protection', *Australian Uranium and Rare Earths Conference*, July, Fremantle, Western Australia.

Collett, S 2014, 'The Australian National Radiation Dose Register: Issues in Establishing, Operating and Expanding a National Dose Registry', IAEA Training Course on Harmonisation of National Dose Registries, Vienna, Austria.

Dessent, K, Javorniczky, J and Karipidis, K, 2013, Radiation Protection and Awareness in Australia, *Laboratory Technicians Association of Victoria Conference*, Melbourne, Victoria.

Guilfoyle, R, Thomas, P & Wallace, A 2013, 'Implications of a Reduced Dose Limit for the Lens of the Eye', *38th Australasian Radiation Protection Society Conference*, October, Cairns, Queensland.

Hirth, G 2014, 'Assessing the impacts of radiation on Humans. Levels and effects of radiation exposure due to the nuclear accident after the great East-Japan earthquake and tsunami: The UNSCEAR Assessment'. Guest lecture at Radioecology Masters Course, 11 June, Norwegian University of Life Sciences, Ås, Norway.

Hirth, G 2014, 'Assessing the impacts of radiation on Humans. Nuclear weapons testing in Australia: Legacy of the Maralinga tests', Guest lecture at Radioecology Masters Course, 11 June, Norwegian University of Life Sciences, Ås, Norway.

Javorniczky, J 2014, 'Statistical data of injuries and the process for the regulation of lasers and IPLs used in the cosmetic industry, Regulation of IPLs and lasers used for cosmetic purposes', Australian Society of Aesthetic Plastic Surgery and the Cosmetic Physicians Society of Australasia Non-Surgical Symposium, May, Sydney.

- Karipidis, K 2013, 'Radiation Safety, Guest lecture in Environmental Influences in Health', Monash University, Victoria.
- Karipidis, K 2013. 'Electromagnetic Fields in the Environment', Environmental Health Professionals of Australia Symposium held, Cape Schanck, Victoria.
- Kenny, J 2013, 'QA of Complex Treatment Plans - Understanding Your Equipment', *Australasian College of Physical Scientists & Engineers in Medicine Summer School*, Perth, 31 October-2 November.
- Orr, B 2013, 'Status Report – Australia' ARGOS consortium meeting, Copenhagen Denmark, September.
- Paritsky, B, Collett, S & Guilfoyle, R 2013. 'An Analysis of Data in the Australian National Radiation Dose Register', *38th Australasian Radiation Protection Society Conference*, October 2013, Cairns, Queensland.
- Paritsky, B, Carpenter, J, O'Brien, R & Williams, G 2013, 'A National Radioactive Waste Inventory for Australia', *38th Australasian Radiation Protection Society Conference*, October, Cairns, Queensland.
- Solomon, S, Hirth, G, Tinker, R, Sdraulig, S and Larsson, C-M 2013, 'Health Impacts from the 2011 Fukushima Dai-ichi Nuclear Power Station Accident', *38th Australasian Radiation Protection Society Conference*, October, Cairns, Queensland.