

Claire-Louise Chapple



Statement of Motivation

I am very honoured to have been nominated to the IRPA Executive Council by the Society of Radiological Protection and, if elected, would consider it a privilege to serve the International Radiation Protection Community in this way.

Having started my career in radiation protection in the medical environment, my initial contact with the Society of Radiological Protection opened my eyes to the value of interaction with professionals from other sectors, and this has continued through national and international conferences since. Having the opportunity to work with colleagues from many different countries, through both IRPA and IAEA initiatives, has also stimulated my interest and concern in both the benefits and challenges of cooperation across the potential divisions of geography, economy and language. I would thus value the opportunity to work for, and with, the diverse community that constitutes IRPA and feel I have developed the understanding and skills to do so effectively. I have particular interest in continuing to develop the concept and promotion of radiation protection culture, along with issues of training and education in radiation protection within different communities.

I have been active within SRP, IRPA's second largest Associate Society, for over 10 years including, most recently, 3 years as Hon Secretary and this has given me experience of both the joys and frustrations of the workings of a large professional organisation. This experience and, in particular, the increased understanding of governance and communication it brings would, I believe, be of great value to the Executive Committee as it seeks to deliver the vision and strategy of the wider IRPA family.

Short CV

Personal Details

Name: Claire-Louise Chapple
Date of Birth: 29/12/65
Place of Birth: Manchester, UK
Contact email: Claire-louise.chapple@nhs.net

Academic Qualifications

1999 PhD, University of Newcastle upon Tyne
Thesis: *'The Optimisation of Radiation Dose in Paediatric Radiology'*
1987-88 MSc in Medical Physics, University of Aberdeen
1984-87 BA (Hons) Natural Sciences II(2), University of Cambridge

Awards, Professional Certification & Membership

2020 Awarded Certificate of Competence to be a Medical Physics Expert (RPA 2000)
2018 Awarded the SRP Founders' Medal
2014 Awarded Fellowship of the Society for Radiological Protection
2012 Appointed Associate Lecturer within the Medical Sciences Graduate School at Newcastle University
2012 Awarded Fellowship of the Institute of Physics and Engineering in Medicine
2008 Awarded designation of Chartered Radiation Protection Professional
2004 Awarded designation of Chartered Scientist
2003 Awarded Certificate of Competence to be a Radiation Protection Adviser (RPA 2000)
2003 Awarded Membership of the Society for Radiological Protection
2000 Awarded the IPEM Founders' Prize
1997 Attained State Registration as a Clinical Scientist
1995 Awarded Corporate Membership of the Institute of Physics and Engineering in Medicine

Current Employment

Head of Unit – Imaging Physics & Radiation Safety; Northern Medical Physics Department, Freeman Hospital, Newcastle upon Tyne, UK

- Responsible for the Provision of Imaging and Radiation Safety services to Newcastle upon Tyne Hospitals NHS FT (NuTH) and other customer Trusts in Northern England
- Providing professional leadership in diagnostic radiology physics and radiation safety.
- Maintaining and developing high standards of service provision.
- Developing, implementing and monitoring clinical and organisational strategies within imaging physics & radiation safety.
- Initiating, developing and delivering research and development activities for healthcare advancement.
- Contributing to service and staff development throughout NMPCE.
- Acting as Radiation Safety Module lead and lecturer for Medical Physics MSc (Modernising Scientific Careers)

Recent Professional Activities - UK:

- 2002-present Regular reviewer of journals including: British Journal of Radiology; Journal of Radiological Protection; Radiation Protection Dosimetry; Australasian Physical & Engineering Sciences in Medicine; Physica Medica.
- 2009-2016 Committee member of SRP Medical Sector committee (secretary from 2011-2014)
- 2012 Co-organiser & Chair SRP Meeting 'The Impact on the Medical Sector of the proposed revised Dose Limit'
- 2012-2014 Invited contributor of chapter on CT dosimetry in 'Practical Radiation Protection in Healthcare, Second Edition'
- 2012-2016 SRP representative on Department of Health MPE Working Group
- 2012-2016 SRP representative at HSE eye dose stakeholder meetings
- 2014-2019 Chair of SRP Working group on Radiation Protection Culture in the Medical Sector
- 2014-present Member of PHE Working party on Diagnostic Reference Levels.
- 2015 Co-organiser & Chair of Session at SRP Annual Conference, Eastbourne
- 2015 Examination of PhD Thesis for University of Glasgow
- 2015-present Elected to Council of Society for Radiological Protection
- 2016-present Elected as Hon Secretary for Society of Radiological Protection

Recent Professional Activities - International:

- 2006-present Lead investigator for UK participation as research partner in IAEA Coordinated Research Projects on dosimetry & optimisation in diagnostic & interventional radiology
- 2008-2018 IAEA Lecturer on Medical Physics and Radiation Safety Regional Training Courses (Philippines, 2008; Italy, 2009; Saudi Arabia, 2010; Kenya, 2010; Namibia, 2018)
- 2010-2012 IAEA Consultant to draft guidance documentation in paediatric diagnostic X ray dosimetry for the coordinated research project on Advanced Dosimetry
- 2011-2012 Programme Committee & Medical Area lead for International Radiation Protection Association 13th Congress
- 2014-2016 Programme Committee & Medical Area lead for International Radiation Protection Association 14th Congress
- 2014-2018 IAEA Expert Missions (Paediatric imaging safety, Uganda 2014; QA for Diagnostic Radiology, UAE 2016; CT QA and dosimetry, Uganda 2018)
- 2015-17 IRPA, IOMP, WHO & IAEA Workshops on Radiation Safety Culture in Healthcare (Geneva 2015; Qatar 2017; Kuala Lumpur 2017)
- 2017 SRP Representative at IRPA European Societies Presidents' Meeting, Vienna
- 2018 SRP Representative at 2nd IRPA workshop on reasonableness in implementation of ALARA, Paris.
- 2018 Invited speaker at Interventional Radiology Workshop, Sicily
- 2018 IRPA representative at IAEA Technical meeting on Bonn Call for Action, Vienna

Recent Publications

Edward Lazo¹, Rachel Smith², Roger Coates³, Ralph Andersen⁴, Yoshihiro Asano⁵, **Claire-Louise Chapple**⁶, Keith Faulkner⁷, Alfred Hefner⁸, Marion Hill⁹, Rick Jones¹⁰, Carl-Magnus Larsson¹¹, Gert Liebenberg¹², Astrid Liland¹³, Alastair McKinlay¹⁴, Hans-Georg Menzel¹⁵, Christopher Perks¹⁶, Manuel Rodriguez¹⁷, Caroline Schieber¹⁸, Peter Shaw¹⁹, Abrie Visage¹², Richard Wakeford²⁰ and Sung-Joon Ye²¹.
The state of radiological protection; views of the radiation protection profession: IRPA13, Glasgow, May 2012. J. Radiol. Prot. 32 489.

DJ Platten, IA Castellano, **C-L Chapple**, S Edyvean, JT Jansen, B Johnson & MA Lewis. Radiation dosimetry for wide-beam scanners: Recommendations of a working party of the Institute of Physics and Engineering in Medicine. *British Journal of Radiology* (2013) 86 (1027).

Chapple C-L et al, contributor. Dosimetry in Diagnostic Radiology for Paediatric Patients. International Atomic Energy Agency, Human Health Series 24, 2014.

Harbron R, Pearce MS, Salotti JA, McHugh K, McLaren C, Abernethy L, Reed S, O'Sullivan J, **Chapple C-L.** Radiation doses from fluoroscopically guided cardiac catheterization procedures in children and young adults in the United Kingdom: A multi-centre study. *The British Journal of Radiology* 2015.

Lee C, Pearce, MS, Salotti JA, Harbron RW, Little MP, McHugh K, **Chapple C-L** & Berrington de Gonzalez, A. Reduction in radiation doses from paediatric CT scans in Great Britain. *Br J Radiol* 2016; 89: 20150305.

Pete Cole, **Claire-Louise Chapple**, Jim Thurston, Andy Rogers, Maria Murray, Peter Riley, Andy Bradley and Jill Reay. Developing the Radiation Protection Safety Culture in the UK Healthcare Sector. *RADMAG*, May 2016.

Harbron, Richard; Dreuil, Serge; Bernier, Marie; Pearce, Mark; Thierry-Chef, Isabelle; **Chapple, Claire-Louise**; Baysson, Helene. Patient radiation doses in paediatric interventional cardiology procedures: a review. *Journal of Radiological Protection*. JRP-100653.R1, 2016.

Claire-Louise Chapple, Andy Bradley, Maria Murray, Phil Orr, Jill Reay, Peter Riley, Andy Rogers, Navneet Sandhu, Jim Thurston. Radiation Safety Culture in the UK Medical Sector: A top to bottom strategy. *Radiation Protection Dosimetry* <https://doi.org/10.1093/rpd/ncw344>. 2016

Harbron, Richard W; **Chapple, Claire-Louise**; O'Sullivan, John J; Best, Kate E; Berrington de Gonzalez, Amy; Pearce, Mark S. Survival adjusted cancer risks attributable to radiation exposure from cardiac catheterisations in children. *10.1136/heartjnl-2016-309773*. 2017.

Richard W Harbron, **Claire-Louise Chapple**, John J O'Sullivan, Choonsik Lee, Kieran McHugh, Manuel Higuera¹, Mark S Pearce. Cancer incidence among children and young adults who have undergone x-ray guided cardiac catheterization procedures. *European Journal of Epidemiology*. EJP-D-17-00566R2. 2017.

Rogers A, **Chapple C-L**, Murray M, Platten D, & Saunderson J. UK guidance on the management of personal dosimetry systems for healthcare staff working at multiple organisations. <https://doi.org/10.1259/bjr.20170363>. 2017.

Poli GL, Coca M, Torres L, Fahey F, Lassmann M, **Chapple C-L**, Homolka, P and Delis H. Developing and implementing an imaging optimization study in pediatric nuclear medicine: Experience and recommendations from an IAEA Coordinated Research Project. *J Nucl Med* 2021; 62:1–7.

Recent Presentations

C-L Chapple. Update on MPE Certification. Institute of Physics & Engineering in Medicine IR(ME)R Update, Newcastle, UK, 2014. **INVITED SPEAKER.**

C-L Chapple. Medical Radiation Safety Culture – an Update on the UK Initiative. British Institute of Radiology IR(ME)R Update, Birmingham UK, 2015. **INVITED SPEAKER.**

C-L Chapple & I Chell. Collaborative guidance on 'Exposures Much Greater Than Intended'. British Institute of Radiology IR(ME)R Update, Birmingham UK, 2015. **INVITED SPEAKER.**

C-L Chapple. Radiation safety culture in the UK medical sector: A top to bottom strategy. IRPA14, Cape Town, May 2016.

C-L Chapple. Medical Radiation Culture: The UK initiative & survey results. RPA Update, Liverpool, 2016. **INVITED SPEAKER.**

C-L Chapple & Rob Farley. Update on existing Medical Physics Experts. MPE Update, Manchester 2019. **INVITED SPEAKER.**

C-L Chapple. IRMER inspection from the far side: The Newcastle experience. MPE Update, Manchester 2019. **INVITED SPEAKER.**

C-L Chapple. Radiation protection challenges during Covid-19 emergency. Convegno Nazionale AIRP di radioprotezione. 2020.