

Keith Pearce

PhD, MBA, MSc, FEPS

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A self-employed contractor, I have over twenty five years' experience working in nuclear environments as a lecturer, mathematical modeller, emergency planning manager and consultant. My communication and influencing skills are excellent and I have a wide technical background backed by an unusually broad education and experience. My experience combines technical skills, teaching & coaching, managing emergency preparedness and response at ten nuclear sites and a corporate centre and also networking/influencing within government, Local Authority and Emergency Services circles. I have several years' experience as a contractor in which time I have worked for new build companies, generating companies, local authorities, a nuclear dockyard and a fuel enrichment plant.

I have also written a number of books and magazine articles.

Career history in brief

Dates	Company	Role
Oct 2014 - present	Katmal Limited	Consultant and Owner
2011 – Sept 2014	Magnox Limited	Head of Emergency Planning Strategy
2003 – 2011	BNFL Magnox & Magnox South	Head of Emergency Planning
1990 - 2003	Magnox & predecessors	Engineering Lead - mathematical modeller.
1987 – 1990	Royal Naval College Greenwich	Senior lecturer - Health physics, atomic and nuclear physics, emergency response.
1985 – 1987	King's College London	Post-Doctoral Research Associate

Education and development

BSc Special Physics, King's College, University of London.	1981
PhD Nuclear Physics, King's College, University of London.	1985
MBA University of Warwick, Business School,	2004
MSc Emergency Planning Management, Leicester University,	2006
BA (Open), Open University,	2010
Prince 2 Practitioner	2014
BA (Hons) History (Open)	2016

Professional Qualifications

Chartered Physicist, Member of Institute of Physics

Chartered Radiological Protection Professional, Member Society Radiological Protection

Fellow of the Emergency Planning Society

Interests

My hobbies include watching gardening (I have a large allotment), photography, travel, keeping fit and history.

I have made contributions to the management and strategic direction of a school (Governor, including periods as Chair) , a village hall (Treasurer and Secretary), a community radio station (Technical Lead and Treasurer) and a village (Parish Councillor) thus widening the range of people and organisations I have worked with and learning a great deal in the process.

Career History in more detail

Currently, I am a Director and sole owner of Katmal Limited (Website katmal.co.uk) and am available for consultancy work. In this role I have completed projects for two new build companies producing Safety Case material, Emergency Planning Strategy and ALARP documents; I have worked with industry, the MoD and local authorities on review of the response to severe accidents (including facilitating and reporting workshops), worked for a nuclear dockyard on the revision of their emergency scheme documentation and enhancing their planning for conventional events and post-accident recovery. I've recently worked on REPPiR-19 issues for nuclear operators and local authorities.

Emergency Planning within Magnox. I led the Company's Emergency Planning Services for a number of years responsible for the readiness of 10 nuclear licensed sites to cope with nuclear emergencies. I managed a team of up to seven emergency planning professionals. The role involved a considerable body of knowledge and liaison with a wide range of people including company responders, Emergency Services, Local Authorities and Government bodies.

Within the Company's emergency response scheme I was a CESC¹ Emergency Health Physicist, responsible for understanding the radiological implications of any emergency and advising countermeasures to protect the public; an Assistant CESC Controller, the most senior authorised post on standby in the scheme, leading the Company's initial response to an emergency; and a Media Technical Briefer trained to explain the technical background of an event to the world's media.

I have a wide experience of nuclear emergency exercises. I have participated in a large number of exercises playing a number of positions on-site; in the Company's central facilities and in multi-agency Strategic Coordination Centres. I have undertaken the preparation, management, witnessing and review of many exercises over a range of scales from shift to national. I have witnessed emergency exercises in other organisations including several abroad. As a past member of the UK Nuclear Emergency Arrangements Forum I have reviewed the lessons learned from on-site exercises across the industry in the UK and as a member of the UK Nuclear Emergency Planning Liaison Group reviewed the lessons learned from off-site exercises. In both of these organisations we turned the learning into revised good practice guidance. I also worked on the NEPLG New Legislation Working Group supporting the revision of REPPiR and IRR in line with the BSSD.

International Experience. I have worked in Obninsk and Moscow, Russia (four exchange trips 2000-2003) and hosted visits to the UK of Russian Emergency Planners and Atmospheric Dispersion experts. I have also worked in Chernobyl, Ukraine (IAEA expert visit 2011), Phillipsburg, Germany (WANO expert visit 2012) and Kozloduy, Bulgaria (WANO expert visit 2012).

Previously at Magnox and its predecessor Companies I worked as a mathematical modeller, developing models of the movement of radioactivity in the environment and using them to support safety cases and discharge applications. This work included significant collaboration with other industry and government experts, in the UK and abroad. This requires technical expertise and good communication skills.

As a Senior Lecturer at the Royal Naval College I taught radiation protection, atomic and nuclear physics, shielding and emergency planning up to MSc level. I also managed the Civil Service's Graduate Entry Scheme for Health Physicists and was the Radiation Protection Supervisor (RPS) for two experimental facilities.

At King's College, London I worked in a team from King's, Birmingham and York Universities using charged particle induced reactions to explore the properties of atomic nuclei. This included periods of intense work in national facilities working as part of a team under pressure and also long periods of working independently to extract and analyse data.

¹ CESC – Central Emergency Support Centre which coordinates the off-site aspects of a response to an emergency and provides technical and logistical support to the affected site.