

# 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 and emergency planning manager. 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.

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## 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                    |
| 1987 – 1990        | Royal Naval College Greenwich | Senior lecturer                     |
| 1985 – 1987        | King's College London         | Post-Doctoral Research Associate    |

## Education and development

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| 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 Professional, Member Society Radiological Protection  
Fellow of the Emergency Planning Society

## Interests

My hobbies include watching football (Portsmouth FC, Forest Green Rovers and England), gardening (I have a large allotment), photography, travel, keeping fit and history (I have just completed BA in 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 and am available for consultancy work. I have a full driving licence and a British passport. I am security cleared to SC level.

In this role I have completed projects for two new build companies producing Safety Case, Emergency Planning Strategy and ALARP documents; I have worked with EDF, Dounreay, Vulcan, MoD, the UK and Scottish Governments and a number of local councils on review of the response to severe accidents (including facilitating and reporting workshops) and worked for a nuclear dockyard on the revision of their emergency scheme documentation.

**Emergency Planning within Magnox (until October 2014)**. 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 CESC<sup>1</sup> 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.

**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.

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<sup>1</sup> 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.