

Exploring radioactivity

Monday 19 March 2018

Venue TBC, central London



Teaching radioactive decay and dealing with student preconceptions about the topic, in line with GCSE and A Level specifications

- Broaden your knowledge of the types of radioactive decay processes
- Consider how students first encounter radioactivity and discuss introducing the topic at GCSE
- Explore how misconceptions arise from use of language about radioactivity
- Bring radioactivity to life by exploring practical applications of the science and increase careers awareness
- Discover ways of making the often challenging maths more approachable

Sessions include:

Lectures:

from Dr Mike Wood, University of Salford

and Dr Pete Cole, University of Liverpool

Teacher-led workshops:

Don't go there, you'll get radioactive!

The maths of radioactivity: the wonder of exponential decay

This day is for you if:

- You teach Science at key stage 4 or 5
- You would like fresh ideas to engage students with radioactivity
- You want to gain confidence managing practical work
- You would like to consider how misconceptions arise from our use of language about radioactivity
- You want to gain resources and activities to use in class for this topic and beyond

Prices (subject to VAT at 20%):

£195 + VAT (Schools Programme members)

£295 + VAT (non-members)

£145 + VAT (further places from the same department)

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INSTITUTE

Inspirational professional development
for teachers and school leaders

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Speakers

Putting you in touch with up-to-date subject knowledge

Dr Mike Wood is Reader in Applied Ecology at University of Salford. His research and teaching expertise cuts across the broad subject of environmental management. Mike focuses on applied research to inform environmental decision-making, management and policy development, and undertakes environmental management consultancy, especially for the nuclear sector.



Dr Pete Cole is Professor of Physical Sciences at the University of Liverpool, where he is also the radiation protection adviser, radioactive waste adviser and laser protection adviser. He is a former chair of the SRP's Research and Teaching Sector Committee. He served as member of the Association of University Radiation Protection Officers Executive Committee for many years. Pete is a co-author of the sixth edition of the textbook *An Introduction to Radiation Protection* published by Taylor and Francis and has published many papers on radiation protection.

Teacher Leader

All of our days are developed and led by practising teachers

Melissa Lord is an Ogden Teacher Fellow with the Ogden Trust and the Regional Ogden Representative for Manchester. She delivers training for the Science Learning Programme and is a Trustee of the Catalyst Science Discovery Centre in Widnes.

Melissa was previously Head of Physics and Science at Altrincham Girls' Grammar School, where she led activities to increase student engagement with Science, including collaborative projects with professionals in industry and academia to identify solutions to the challenges of the future.

“The day was informative and thought provoking, with up-to-date science to take back to colleagues and students.”

- Rob Plested, Stewards Academy | Science CPD Day participant 2016



About The Prince's Teaching Institute

We know that for every student in every school, every teacher matters.

The PTI is a charity run by teachers, for teachers. We re-engage teachers with their specialist subjects, inspiring them to bring enthusiasm into class and raise the aspirations of their pupils.

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