

CHEMED IRELAND 2012

ASSESSMENT AND INQUIRY IN CHEMISTRY

Saturday 20th October, Dublin City University, Dublin 9

9.15	Registration	Foyer of DCU Science Block (X-Block)	
9.30	<p>Presentation: <i>How Might We Assess Inquiry in Science?</i></p> <p>Christine Harrison, King's College London, UK</p> <p><i>Supported by RSC Education Division – Ireland</i></p>	XG20	
10.30	Refreshments	Foyer of DCU Science Block	
11.00	<p>Workshop:</p> <p><i>Developing expertise in teaching Redox Chemistry – getting to grips with electrons!</i></p> <p>Iris Suitor & Angela McKeown, RSC</p> <p>XG28</p>	<p>Workshop:</p> <p><i>Examples of Chemistry topics by Inquiry from the EU-FP7 ESTABLISH project</i></p> <p>Stefanie Herzog, IPN, Germany NG25</p> <hr/> <p>Workshop:</p> <p><i>Chemistry is All Around Network Project - the Irish perspective</i></p> <p>Marie Walsh, LIT, Ireland NG22</p>	
12:00	<p>Workshop:</p> <p><i>Developing expertise in teaching Redox Chemistry – getting to grips with electrons!</i></p> <p>Iris Suitor & Angela McKeown, RSC</p> <p>XG28</p>	<p>Workshop:</p> <p><i>Examples of Chemistry topics by Inquiry from the EU-FP7 ESTABLISH project,</i></p> <p>NG25</p> <hr/> <p>Workshop:</p> <p><i>Chemistry is All Around Network Project - the Irish perspective</i></p> <p>NG22</p>	
1.00	Lunch	ER Restaurant, School of Nursing	
2.00	<p>Presentation & Workshop:</p> <p><i>Leaving Certificate Chemistry- what's happening?</i></p> <p>Anna Walshe, National Council for Curriculum and Assessment, Ireland</p>	XG28	
4.00	<p>Close of Conference:</p> <p>Odilla Finlayson, CASTeL, Dublin City University</p>	XG20	



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Presentation: Dr. Christine Harrison, King's College London, UK



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How Might We Assess Inquiry in Science?

The current emphasis on inquiry based science education originates from the Rocard report arguing for a renewed pedagogy that encourages inquiry-based methods. These recommendations were followed up by a series of European FP7 funded projects such as Mind The Gap, S-TEAM, Fibonacci etc. and more recently by projects looking at the assessment of Science Inquiry. Inquiry based STM education includes students¹ involvement in questioning, reasoning, searching for relevant documents, observing, conjecturing, data gathering and interpreting, investigative practical work and collaborative discussions, and working with problems from and applicable to real-life contexts (Anderson, 2002). This session will consider some of the issues involved in trying to develop appropriate assessments to match the style of learning that is being developed in classrooms.

Short Biography

Dr. Christine Harrison worked in secondary schools for 13 years before joining King's to run the Biology Education section. Her teaching and research have centred on assessment, science education, cognitive acceleration and the use of text and TV in classrooms. Throughout all of these, she has maintained an interest in professional learning, in working collaboratively with teachers and in ensuring effective knowledge transfer. She led the Royal Society Assessment 14-19 Science project, the King's Researching Expert Science Teaching project (KREST) and the King's-Oxfordshire Summative Assessment Project (KOSAP) as well as taking consultancy roles with Assessment for Learning Projects in the USA, Jersey, Wales, Scotland, Peru and London. She has also been co-opted onto the Association for Science Education Council to advise on and support initiatives on assessment and professional development.

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Workshop: Examples of Chemistry topics by Inquiry from the EU-FP7 ESTABLISH project: Stefanie Herzog, Vahide Taskin, IPN, Germany & Odilla Finlayson, DCU, Ireland



ESTABLISH is a pan-European project focused on providing teacher education supports and appropriate resources to increase the usage of inquiry based methodologies in the classroom. This workshop will present some of the chemistry topics used for teacher education in this project.



Workshop: Chemistry is All Around Network Project - the Irish perspective

Marie Walsh, LIT, Ireland

The session will introduce teachers to the Chemistry is all around network project and show the progress to date with collecting ICT-based resources to aid with the teaching and learning of chemistry/science. Participants will be given information on the items Irish teachers have identified as being relevant and useful.

Workshop: RSC LearnChemistry CPD Workshops - Developing expertise in teaching Redox Chemistry – getting to grips with electrons!



Iris Sutor & Angela McKeown, RSC CPD trainer

This CPD workshop provides a 'hands-on' opportunity for teachers to explore effective strategies for teaching redox chemistry across the 11-19 age range. The Redox Chemistry workshop is most suited to teachers who may be:

- relatively new in post
- teaching chemistry outside their own subject specialism
- keen to increase their own understanding of, and confidence to teach, this topic.

Presentation & Workshop: Leaving Certificate Chemistry - what's happening?

Anna Walshe, National Council for Curriculum and Assessment, Ireland



The revised Leaving Certificate Chemistry syllabus includes proposals for a second component of assessment. This hands-on workshop will give you the opportunity to try out some sample activities developed by the NCCA as part of these proposals.