

Assessing experimental science in 11–18 education:
New research directions

Wednesday 12 October 2016 – Wellcome Trust, 09.30–19.00

09.30–10.00	Registration and refreshments
10.00–10.05	Welcome from the Wellcome Trust Dr Hilary Leever, Head of Education, The Wellcome Trust
10.05–10.15	Opening remarks Professor Tom McLeish FRS, Chair of the Royal Society's Education Committee
10.15–10.45	Keynote address Improving the assessment of experimental science through evidence-based research: key questions Professor Jens Dolin, University of Copenhagen
Session 1. Summative assessment in non-science disciplines	
10.45–10.50	Chair's introduction Dr Christine Harrison, King's College London
10.50–11.30	Capturing capability: digital approaches to authentic performance assessment in Design and Technology Professor Kay Stables, Professor of Design Education, Goldsmiths, University of London Assessment in music education: some current issues Professor Martin Fautley, Birmingham City University Practical assessment in GCSE Physical Education and vocational sport qualifications Jennifer Stafford-Brown, Stafford-Brown Consultancy Ltd Measuring the impact of policy changes for young and novice driver safety in GB Dr Shaun Helman, Transport Research Laboratory
11.30–11.45	Break
11.45–12.30	Small group discussion
12.30–13.00	Plenary discussion
13.00–14.00	Lunch <i>Together with software demonstrations from Labster and Labdog</i>

Session 2. Tomorrow's world: exploring innovative approaches to assessment	
14.00–14.05	<p>Chair's introduction Dr Anna Walshe, National Council for Curriculum and Assessment, Dublin</p>
14.05–15.25	<p>Online practical component for 'Validation of Assessment for Learning and Individual Development': a New South Wales Department of Education innovation Joanne Sim, Department of Education, New South Wales (via a live video link)</p> <p>Assessment in a knowledge economy – new approaches and learning analytics Professor Patrick Griffin, University of Melbourne</p> <p>Science assessments of the 21st century: current innovations and challenges in computer-based testing Dr Ronny Scherer, University of Oslo</p> <p>Roadmaps to help develop assessments for learning progressions in science Professor Mark Wilson, University of California, Berkeley</p>
15.25–15.30	Break
15.30–16.30	<p>Comparative judgement for robust assessment: the case of mathematics Dr Ian Jones, University of Loughborough</p> <p>Sharing standards: how comparative judgement can help Dr Chris Wheadon, No More Marking</p> <p>Collecting evidence of inquiry learning in the science classroom Dr Eilish McLoughlin, Dublin City University</p>
16.30–16.45	Break
Session 3. Towards new research directions: group discussions	
16.45–17.30	Chair: Professor Robert Coe, University of Durham
17.30–17.45	Break
Session 4. Towards new research directions: plenary discussion and reflections	
17.45–18.00	Chair: Dr Christine Harrison, King's College London
18.00–18.10	<p>Closing remarks Professor Sir John Holman, President, Royal Society of Chemistry</p>
18.10–19.00	Drinks reception