



SMEC 2014 | SAILS: *Thinking Assessment in Science and Mathematics*
Dublin City University, Dublin Ireland



CONFERENCE PROGRAMME: TUESDAY 24 TH JUNE 2014						
08:30	Registration, Lobby of Nursing Building, DCU					
09:00	Welcome & Opening address, HG23, Nursing Building Dr. Odilla Finlayson, Coordinator of SAILS					
09:30	Plenary 1, HG23, Professor Wynne Harlen, UK , <i>Assessment in support of inquiry-based education</i> Chair: Dr. Odilla Finlayson					
10:30	Coffee Break					
11:00	Welcome & Launch, HG23, Sean Sherlock TD Minister of State, Department of Enterprise, Jobs & Innovation Professor John Costello, Dean of Faculty of Science and Health, Dublin City University					
11:30	Plenary 2, HG23, Professor Beno Csapo, <i>Defining an assessment of cognitive outcomes of inquiry based science education</i> Chair: Dr. Eilish McLoughlin					
12:30	Lunch & Refreshments					
Parallel Sessions						
13:45	OR1, HG07	OR2, HG19	OR3, HG17	WS1, HG18 Lead: Chris Harrison	WS2, NG22, Physics Lead: Sally Reynolds	WS3, HG10 Lead: Agueda Gras-Velazquez
Parallel Sessions						
14:45	OR4, HG07	CP1, HG19	CP2, HG18	CP3, HG17	CP4, HG10	
15:45	Poster Presentations, P1-P28 and Coffee Break					
16:45	Plenary 3, HG23, Professor Malcolm Swan, <i>Designing formative assessment in mathematics</i> Chair: Dr. Brien Nolan					
17:45	Wrap-up Day 1					
18:15	Pick up for Conference Dinner in City Centre from set down car park					

	#	AUTHORS	CONTRIBUTION TITLE
Plenary	PL1	Wynne Harlen	Issues in policy and practice in the assessment of inquiry-based science education
	PL2	Beno Csapo	Defining an assessment of cognitive outcomes of inquiry based science education
	PL3	Malcolm Swan	Designing Formative Assessment Lessons in Mathematics
Oral Research	OR1	Aisling Leavy, Mairead Hourigan and Claire Carroll	Lesson Study in Mathematics: Authentic Assessment of Inquiry Learning
	OR1	Siún Nic Mhuirí	Thinking and evaluation in a mathematical discourse community: a shared responsibility
	OR1	Sean Close and Gerry Shiel	A Comparison of the TIMSS 2011 and PISA 2012 Mathematics Frameworks in the Context of Irish Mathematics Curricula
	OR2	Eilish McLoughlin, Odilla Finlayson, Sarah Brady and Marian Kires	Establish – A model for widespread implementation of Inquiry Based Science Education
	OR2	Odilla Finlayson, Eilish McLoughlin and Sarah Brady	Evaluation of the impact of ESTABLISH IBSE Teacher education Programme on participating teachers
	OR2	Marian Kires, Eilish McLoughlin, Odilla Finlayson and Sarah Brady	Case Study on the implementation of the ESTABLISH Teacher Education Programme in Slovakia
	OR3	Wim Peeters	The secure project: some results coming from the research of science curricula and teachers' and learners' opinions on science education
	OR3	Thomas J.J. McCloughlin	Cognitive acceleration in primary science teacher education: catching-up at third level
	OR3	Orla Kelly and Roger Cutting	Primary Science and Creativity: Strange Bedfellows?
	OR4	Mairead Greene	Optimisation: from discovery to assessment
	OR4	Ciaran Mac An Bhaird, Brien Nolan, Ann O'Shea and Kirsten Pfeiffer	An analysis of the opportunities for creative reasoning in undergraduate Calculus courses
	OR4	Cormac Breen and Michael Carr	A Study on the Difference in Engagement Levels with Maths Learning Support between the Mature and the Traditional Student
	OR4	Seamus McLoone and Conor Brennan	A Smartphone-based Student Response System for Obtaining High Quality Real-time Feedback – Evaluated in an Engineering Mathematics Classroom
Classroom Practice	CP1	Ana Vicêncio	Biotechnology, millions that can generate billions: Teacher perspective on students' assessment
	CP1	Declan Cathcart	Towards an assessment of an inquiry module on the living conditions of woodlice
	CP1	Monika Antušová, Ivana Slepáková and Katarína Kimáková	Assessment of selected biological activity based on inquiry at lower secondary
	CP1	Danny Van der Veken	Introducing stem education in secondary schools: some ideas. Kogeka's story
	CP2	Carla Matoso	Black tide – Oil in the water: Teacher perspective on students' assessment
	CP2	Dorota Černíková and Zuzana Ješková	Experience with inquiry activities and their assessment at a lower secondary school in Slovakia
	CP2	Lisbeth Vive	Egg collision and the bottle contains
	CP2	Joachim Gretsche and Nadine Reddersen	How to improve the image of a camera obscura – an inquiry-based approach from the middle school optics curriculum.
	CP3	Aikaterini Kasimatis, Ourania Petropoulou, Symeon Retalis, Ioannis Dimopoulos, Yannis Psaromiligkos and Konstantinos Karaggelis	Using Moodle and e-assessment methods during a collaborative inquiry learning scenario
	CP3	Karin Marianne Lilius	Inquiry based science education in the joint science exam in Denmark
	CP3	Wim Peeters	The Flemish (Belgium) assessment system in secondary education: from decree to daily practice, with focus on IBL
	CP3	David Keenahan	Investigating misconceptions in mechanics using mcqs
	CP4	Maria Ganajova and Milena Kristofova	Assessment of selected aspects of inquiry during teaching topic properties of plastics
	CP4	Brigid Corrigan	Inquiry assessment in the chemistry classroom – fundatory experiments made relevant
CP4	Kinga Orwat, Paweł Bernard and Karol Dudek	Sailing on an anolyte – results of a case study on galvanic cells unit at upper secondary school level	
CP4	Derya Yahsi	Teachers' reflection on IBSE	
Workshop	WS1	Chris Harrison	Assessing Inquiry in a Formative Fashion : The SAILS Project
	WS2	Sally Reynolds	Introduction to using video in the science classroom
	WS3	Premysl Velek and Agueda Gras-Velazquez	Scientix, Inquiry Based Learning and Online content



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CONFERENCE PROGRAMME: WEDNESDAY 25 th JUNE 2014						
09:15	Plenary 4, HG23, Professor Paul Black and Dr. Christine Harrison, <i>Assessment in the Pedagogy of Inquiry</i> Chair: Dr. Paul van Kampen					
10:15	Coffee Break					
Parallel Sessions						
10:45	OR5, HG07	OR6, HG17	WS3, HG18 Lead: Agueda Gras-Velazquez	WS4, HG19 Lead: Paul van Kampen	WS5, HG10 Lead: UK team	WS6, NG22, Physics Lead: Marian Kires
11:45	Plenary 5, HG23, Professor Cecília Galvão, <i>Why teachers should want to follow our curriculum design?</i> Chair: Dr. James Lovatt					
12:45	Lunch & Refreshments					
Parallel Sessions						
14:00	OR7, HG07	OR8, HG19	CP5, HG18	CP6, HG17	CP7, HG10	WS2, NG22, Physics Lead: Sally Reynolds
15:00	Poster Presentations, P29-P55, and Coffee Break					
16:00	Plenary 6, HG23, Dr. Michael O'Leary and Dr. Zita Lysaght, <i>Introducing the assessment for learning audit instrument: A tool developed to guide school based professional development</i> Chair: Dr. Cliona Murphy					
17:00	Farewell & Closing, HG23, Dr. Eilish McLoughlin, Director CASTeL DCU					

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Plenary	PL4	Paul Black and Christine Harrison	Assessment in the Pedagogy of Inquiry
	PL5	Cecília Galvão	Why teachers should want to follow our curriculum?
	PL6	Michael O'Leary and Zita Lysaght	Introducing the assessment for learning audit instrument: A tool developed to guide school based professional development
Oral Research	OR5	Michael Delargey	Potential uses of the common European framework of reference for languages to inform the teaching of project maths
	OR5	Sinead Breen and Ann O'Shea	The design of tasks to aid students' understanding of the threshold concept 'function'
	OR5	Gerry Shiel, Brian Merriman, Rachel Perkins and Jude Cosgrove	Project Maths and PISA: Comparing the PISA 2012 Performance of Students in Initial and Other Schools
	OR6	Rob Toplis	The value of practical work: school students' perspectives
	OR6	Teri Donaghy, Aoife Morrin and Blanaid White	Technology enhanced feedback for 3 rd year laboratory practical sessions
	OR6	Susan Ryan, Odilla Finlayson, Tom McCloughlin, Eilish McLoughlin	CASE and metacognition
	OR7	Marie Ryan and Peter E. Childs	Language in science project (LISP)
	OR7	Cliona Murphy and Greg Smith	A considerable loss of personal fear: The impact of the Fibonacci Project on Dublin primary school teachers
	OR7	Michela Insenga	An overview of the INSTEM project – Innovation network in Science, Technology, Engineering and Mathematics
	OR8	Grainne Walshe, Jennifer Johnston and George McClelland	Designing, developing and evaluating integrated stem activities for junior science
	OR8	Yalcin Yalaki, Gultekin Cakmakci, Derya Yahsi, Betul Sen Gumus, Ayse Gurel, Gamze Kavak Yuksel and Ipek Ince	Development and validation of an assessment instrument for inquiry skills
	OR8	Enda Carr, Eilish McLoughlin and Odilla Finlayson	The Particulate Nature of Matter, Inquiry Based Learning and the Transformative Education of Junior Secondary School Students.
Classroom Practice	CP5	Richard Moynihan, Eilish McLoughlin, Paul van Kampen and Odilla Finlayson	The application of tutorial based worksheets to enhance student understanding of static electricity and magnetism at lower and upper second level education
	CP5	Michael A. Wunder	Formative assessment while pupils study circular motion
	CP5	Slavka Ropekova and Marian Kires	The role of inquiry activities in physics education at lower secondary school
	CP5	Vanessa de Andrade	Assessing planning skills when students are involved in the inquiry activity "Up there... how is it?"
	CP5	Aine Woods	Using model based inquiry to teach atmospheric pressure
	CP6	Wim Peeters	The Flemish (Belgium) assessment system in secondary education: from decree to daily practice, with focus on IBL
	CP6	Elaine Doyle	"That's mad! There's More Calories in Nutella than Crisps": Using Inquiry to Teach Nutrition to Disadvantaged Students
	CP6	Stine Caspersen and Morten Rask	"Young Scientists" through IBSE
	CP6	John Murphy	In Orbit with Europa: Making Science an Attractive Force
	CP7	Mirosław Brozis	IBSE on math lesson - is it possible?
	CP7	Ulrich Dahl	ISI 2015 (Innovation, Science, Integration)
	CP7	Ourania Petropoulou, Symeon Retalis, Ioannis Psaromiligkos, George Stefanidis and Spyidoula Loi	Inquiry based learning in primary education: a case study using mobile digital science lab
	CP7	Teresa Loureiro	Goats and human, resources and sustainability: Teacher perspective on students' assessment
	Workshop	WS2	Sally Reynolds
WS3		Premysl Velek and Agueda Gras-Velazquez	Scientix, Inquiry Based Learning and Online content
WS4		Paul Grimes, Paul van Kampen, Eilish McLoughlin and Odilla Finlayson	Teacher-Student Dialogue in the Inquiry Classroom
WS5		Stephen Phillips, Georgina Turner, Amandeep Kang, Sian Herring and Anja Luther	Workshop on Inquiry and Assessment
WS6		Marián Kireš, Zuzana Jeskova and Lenka Miklošová	Let's explore the power of candle