

Programme version 3

9:00-9:45	Registration: Horizons in STEM Higher Education Conference Thursday 29th June			
9:45-10:00	Welcome and Introduction- local organising committee (SS) ----- The Auditorium			
10:00-11:00	Plenary Lecture: The TEF exercise – good news or bad news for STEM subjects? Prof Pat Bailey Deputy VC London South Bank University -----The Auditorium			
11:00-11:30	Break			
	Active Learning. Chair SS Auditorium	Employability. Chair MS, room 2.01	Open education. Chair JR, room 3.04	Student engagement and support. Chair NG, room 2.02
11:30-11:50	An Open Ended Team-Based Induction Task to Support the Development of Project Skills	Enhancing skills development and reflective practise in students during their programme of study	A Comparative Study of Blended and Online Learning using the Virtual Microscope for Earth Sciences	Maths Support for Science: A Blended and Online Development Project
	Dylan Williams	Samantha Campbell Casey and Janis MacCallum	David Muirhead, Christothea Herodotou, Maria Aristeidou, Malcolm Hole, Simon Kelley, Eileen Scanlon and Marcus Duffy	Beth Paschke, Shazia Ahmed, Sue Milne and Adrian Laphorn
11:50-12:10	Flipping marvellous. Maximising the Learning in Problem-Based Learning	A semiautomatic framework for evaluating cumulative qualification effects of a pedagogy	Progression towards open access environments for enhancing non-specialist learning in statistics within medicine and allied health sciences	Impact of Participation in a Learning Support Unit for Students of a First Year Engineering Module
	Gillian Rhodes, Alastair Barr, Bradley Elliott, Will Whitlock and Christopher Biggs	Mark Slaymaker, Lucia Rapanotti, Jon Hall, Steven Self and David King	Margaret MacDougall	Gráinne Walshe, David Newport and Vincent Casey
12:10-12:30	Quectures: Questioning the lecture, not the lecturer.	Taking education for granted: the role of placement in computing science	Teaching fundamental concepts in science by developing teaching resources to address common misconceptions	Engagement and Community
	Heather McQueen and Craig McMillan	Sally Smith, Colin Smith, Ella Taylor-Smith and Gemma Webster	Asriah Mardiyanningsih, Chris Cane and Mark Goodwin	Derek Raine and Sarah Gretton
12:30-12:50	Create a CityLab to Enhance Citizenship	Is an Industrial Placement for Construction Management students a good idea?	Citizen science inquiry learning journeys using www.iSpotnature.org	A Support for Academic Progression programme in a STEM Faculty
	Bruce Scharlau	Hasan Haroglu	Janice Ansine, Michael Dodd, David Robinson and Patrick McAndrew	Neil Williams
12:50-13:50	Lunch			

Horizons in STEM Higher Education Conference : Thursday Afternoon Session

	Active learning. Chair NW Auditorium	Transitions. Chair CH, room 2.01	Feedback/computing Chair: TB, room 3.04	Active learning. Chair CC room 2.02
13:50-14:50	WS: Cross-disciplinary approaches to active learning from the staff and student perspective.	WS: Understanding the challenges facing students in transitioning to university	WS: Platform for peer-feedback based on programming tests	WS: Use Lego Serious Play for Shared Understanding
	Alison Kelly, Hilda Mulrooney, Nicole Pond, Adam Pond, Mikey Garcia, Rachel Dicker, Alex O'Farrell and Parisa Modabber	Hannah Parker, Calab Marsh, Sadia Ahmed, James Cannon, Emma Taylor-Steeds, Annie Hughes, Lucy Jones and Nigel Page	Manuel Maarek and Léon McGregor	Bruce Scharlau
14:50-15:10	The use of campus based field teaching to provide an authentic experience to all students	Transition to university: the experience of pharmacy students	Immediate Feedback Assessment Technique: A model for promoting greater student engagement, attainment and retention	Active learning using computer simulations of physiology
	Ruth Mewis, Julie Peacock and Deirdre Rooney	Helen Boardman, Franziska Stoeckel and Cristina De Matteis	Tony Gurney	Mark Carew
15:10-15:30	Learning to be a Scientist	How well does the Open University's STEM Access module prepare students for undergraduate level 4 Science?	A marked improvement: increasing assessment literacy through peer review	Pharmacy Law: whether you love it or loathe it, you've still got to know it! Increasing engagement in dull subjects
	Craig McMillan and Heather McQueen	Elaine McPherson, Anactoria Clarke, Carlton Wood and John Butcher	Carron Shankland and Mary McCulloch	Ricarda Micallef and Natasha Slater
15:30-16:00	Break/posters			

	Horizons in STEM Higher Education Conference: Thursday late afternoon session			
	Chemistry/Lab work. Chair CM, Auditorium	Computing. Chair NG , room 2.01	Engineering/Mechanics. Chair SS, room 3.04	Employability. Chair SG, room 2.02
16:00-16:20	International Green Chemistry Education	Improving achievement through analysis of the behaviour of online SQL learners	Transforming assessment practices for engineering students in a distance-learning environment.	Incorporating Entrepreneurship skills into Chemistry and Related Curriculums
	Glenn Hurst, Avtar Matharu, James Clark and Louise Summerton	Jyoti Bhardwaj and Andrew Cumming	Carol Morris and Sally Organ	Baljit Ghatora and Robert Strutt
16:20-16:40	An Evaluation of the Impact of Pre-Laboratory Simulations on Student Confidence Levels and Ability	Rich Pictures of the Future	Student-produced video assignment as Technology Enhance Learning (TEL) – making learning environment more exciting	Exploring motivation, benefits and barriers to engagement in co-curricular activities: the undergraduate student perspective.
	Richard Blackburn, Barbara Villa-Marcos, Dylan Williams and Iain Thistlethwaite	Sally Smith, Tessa Berg, Colin Smith and Tracey Bowen	Hsein Kew	Hilda Mulrooney
16:40-17:00	Teaching and assessment of good laboratory technique: pre-lab activities and digital badging	Teaching and assessing an Interpretive approach to Requirements Analysis: challenges and opportunities for innovation	Engineering Education Pedagogy: Is it Fit for the 21st Century?	Reflections on embedding employability and transferable skills in Stage 2 of a Mathematics and Statistics degree.
	Neil Williams, Richard Singer and Gemma Shearman	Daune West	Alastair Mckinna	Phil Ansell, Laura Brown and Charlotte Warin
17:00-17:20	Beyond graduation: motivations and career aspirations of undergraduate chemistry students	Getting a leg over the coding barrier: an evaluation of the success of pre-start bridging courses for stage 2 computer programming students.	Students' understanding of Forces	Enhancing employability through a multi-disciplinary approach to graduate attributes: embedding engagement and developing self-efficacy in pre-honours
	Ruth Mewis, Jared. C. Ogunde, Tina L. Overton and Suzanne Boniface	Fiona Aiken, Frances Chetwynd and Helen Jefferis	Judyanto Sirait	Maxine Swingler
17:30-18:00	Organising Committee Meeting			
19:30	Conference Dinner and student voices			

Horizons in STEM Higher Education Conference Registration Friday 30th June				
09:00-09:20				
	Recognising L&T excellence. Chair CC, room 3.04	Games for learning. Chair CM, room 2.02	Attendance and timetable. Chair NW, room 2.01	Collaborations. Chair JR, auditorium
09:20-9:40	Supporting Scholarship in STEM: an institutional perspective	The Development and Evaluation of a Card-game and Molecular Model to Enhance Students' Understanding of VSEPR	Approaches to Measuring Attendance and Engagement.	Leading the way as a hydro nation in Scotland – supporting student transitions within a strategic partnership
	Clem Herman and Diane Butler	Erlina Erlina, Chris Cane and Dylan Williams	Simon Grey and Neil Gordon	Sally Crighton
9:40-10:40	WS: Exploring perceptions of quality in higher education from the perspectives of staff, students & employees.	WS Games for Learning	WS: What should an inclusive and student-centred timetable look like?	9:40-10:00 Oral Laying Tracks: Preparing disciplinary experts for transdisciplinary STEAM leadership
	Hilda Mulrooney, Alison Kelly, Nicole Pond, Adam Pond, Mikey Garcia, Rachel Dicker and Parisa Modabber	Bruce Scharlau	Gary Forster-Wilkins, Claudia Ghezou, Sisi Gateva, Anila Ahmed, Mark Bonetzky, Sian Thurgood and Nigel Page	Ashley Gess
				10:00-10:40 International perspectives on STEM education: Facilitated by Kay Hack
10:40-11:10	Break			
	Mobile TEL. Chair SG, room 3.04	Assessment and feedback. Chair TB, room 2.02	Widening and supporting access. Chair CH, room 2.01	Employability. Chair MS, Auditorium
11:10-11:30	Use of apps in Higher Education: can students benefit from a mobile makeover?	Ipsative assessment and feedback for improving student learning.	Investigating the “Leaky Pipeline”: The Student Experiences of Women in an Undergraduate Computer Science Course	Embedding and promoting enterprise to bioscience students through the curriculum and engagement through an extra-curricular activity
	Nicola Veitch and Pam Scott	Ryan Crosby and Marie Devlin	Laura Heels and Marie Devlin	Nigel Page and Martha Mador
11:30-11:50	BYOD strategies in higher education: current knowledge, students' perspectives, and challenges.	Transition from passive learner to critical evaluator through peer-testing of programming artifacts	Can We Use Interdisciplinary Outreach Programmes to Uncover the Myths about Chemistry?	Staff views on skills development within their own teaching: what makes employability such a dirty word?
	Alessandro Siani	Gudmund Grov, Mohammad Hamdan, Smitha Kumar, Manuel Maarek, Léon McGregor, Talal Shaikh, Joe Wells and Hind Zantout	Baljit Ghatora, Gillian Christie and James Cannon	Alex Crombie
11:50-12:10	Students' evaluation of clickers in the classroom	withdrawal	A Statistical Study of “Attainment Gaps” (and their Causes) in Students' Performance in STEM Subjects at a Post-1992 UK University	Using enterprise-based modules to enhance graduate attributes and employability
	James Denholm-Price, Suzan Orwell and Peter Soan		Stenford Ruvinga, Mastaneh Davis and Gordon Hunter	Simon O'Leary

	Horizons in STEM Higher Education Conference: Friday afternoon session
12:10-13:10	Lunch
13:10-13:25	Instructions for Conference Publication in New Directions -----Auditorium
13:25-14:25	Plenary: Public engagement and learning spaces Prof Kevin O'Dell, Dean of public engagement Glasgow University Auditorium
14:25-14:30	Closing Remarks

Venue details

Auditorium – 160 fixed theatre seating

2.01 – 114 fixed flat floor

2.02 – 48 classroom seating

3.04 – 27 classroom seating