## Horizons in STEM Higher Education Conference: Making Connections, Innovating and Sharing Pedagogy 29-30 June 2021, via MS Teams

## **PROGRAMME**

9:00-9:15	Registration Day One: Horizons in STEM Higher Education Conference: Tuesday 29 <sup>th</sup> June				
	Helpdesk				
9:15-9:20	Welcome and Introduction  Main Room				
			eSTEeM, The Open University		
9:20-9:30		Openi	ing Address		
			in Room		
	Prot	fessor Nicholas Braithwaite, Executiv	e Dean, Faculty of STEM, The Open	University	
9.30-10.00		Opening Key	note Presentation		
			in Room		
	Paul Taylor, P	rofessor of Chemical Education & De		, University of Leeds	
			nts in the STEM Curriculum		
10:00-10:15			Break		
10:15-11:15	Short Orals: Assessment 1	Short Orals: EDI 1	Short Orals: Active Learning 1	Short Orals: Laboratory Work 1	
	Chair: Sue Pawley	Chair: Cristina De Matteis	Chair: Derek Raine	Chair: Sally Smith	
	Room A	Room B	Room C	Room D	
	Enhancing learning through	A case study for connective	Addressing the challenges of	Supporting the affective dimension	
	online open book MCQ	learning: connecting students,	delivering a laboratory class	of laboratory learning in the	
	examinations – an example	tutors and subject	when students are miles away	biosciences with virtual laboratory	
	from the Biosciences			software	
		Stephanie Bridges	Sarah K. Coleman and Caroline		
	Alfred Thumser, Ian Bailey,		Smith	Danielle L Knight and Ian G Bailey	
	Sarah Bailey, Rita Jabr and				
	Simon Lygo-Baker				
	Multiple True-False quizzes	Using food to encourage a sense	Flipping the classroom: results	Summative assessment and digital	
	with unlimited attempts	of belonging at university: The	from a pre-pandemic study to	collaboration: scaffolding reflection	
		Cultural Food Stories project	inform the post-pandemic	in laboratory learning	
	Mark MacDonald		future		
		Hilda Mulrooney, Mau Lola,		Rebecca Ferrari and Christof Jaeger	
		Ashley Nabukenya Ndenzi,			

		Chidera Nnadozie, Fatmata Sow	Charlotte Price and Maria	
		and Maya India Jackson	Walker	
	You Have 10 Minutes of My	The value of the Personal Tutor		#DryLabsRealScience a collaborative
	Attention – Using Time as the	Scheme (PTS) as a mechanism of		network addressing the virtual
	Criterion for Assessment	supporting belonging in an online		
	Deliverable	world		David Smith, Nigel Francis, Ian
				Turner, Tom Bassindale and Robert
	Sean Lancastle and Martin	Paty Paliokosta, Karen Lipsedge,		LeSuer
	Ould	Matthew Cunningham,		
		Christopher Barker, Gianpiero		
		Calebrese, Hilda Mulrooney,		
		Konami Groves, Rachel Davies,		
		Penny Burden, Joanna Bailey and		
		Mel Topcu		
11:15-11:30			Break	
11:30-12:30	Short Orals: Blended and	Short Orals: EDI 2	Short Orals: Transitions and	Learning Science Workshop -
	Online Learning 1	Chair: Julie Robson	Student Support 1	Teaching Innovation Award Winners
	Chair: Jan Kowal	Room B	Chair: Alix Blockley	2020
	Citali. Jali Kowai	Koom B	1	
	Room A	ROOM B	Room C	Chair: Trevor Collins
	Room A		Room C	Chair: Trevor Collins Room D
	Room A  Attitudes and Aptitudes in an	How students' inspirations and	Room C  Flexible STEM education for a	Chair: Trevor Collins Room D Smart Worksheets to Identify
	Room A  Attitudes and Aptitudes in an Interdisciplinary STEM	How students' inspirations and aspirations impact motivation	Room C  Flexible STEM education for a post-pandemic world: a case	Chair: Trevor Collins Room D  Smart Worksheets to Identify Student Numeracy Skills in the
	Room A  Attitudes and Aptitudes in an	How students' inspirations and aspirations impact motivation and engagement in the first year	Room C  Flexible STEM education for a	Chair: Trevor Collins Room D Smart Worksheets to Identify
	Room A  Attitudes and Aptitudes in an Interdisciplinary STEM Programme	How students' inspirations and aspirations impact motivation	Room C  Flexible STEM education for a post-pandemic world: a case study in Computer Science	Chair: Trevor Collins Room D  Smart Worksheets to Identify Student Numeracy Skills in the Division of Natural Sciences
	Room A  Attitudes and Aptitudes in an Interdisciplinary STEM Programme  Sarah Gretton, Derek Raine	How students' inspirations and aspirations impact motivation and engagement in the first year of study	Room C  Flexible STEM education for a post-pandemic world: a case	Chair: Trevor Collins Room D  Smart Worksheets to Identify Student Numeracy Skills in the Division of Natural Sciences  Alexandra Moores and Francis Samra
	Room A  Attitudes and Aptitudes in an Interdisciplinary STEM Programme	How students' inspirations and aspirations impact motivation and engagement in the first year of study  Mel Lacey, Hollie Shaw, Caroline	Room C  Flexible STEM education for a post-pandemic world: a case study in Computer Science	Chair: Trevor Collins Room D  Smart Worksheets to Identify Student Numeracy Skills in the Division of Natural Sciences  Alexandra Moores and Francis Samra **
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	Room A  Attitudes and Aptitudes in an Interdisciplinary STEM Programme  Sarah Gretton, Derek Raine and Cheryl Hurkett  Employing a Socratic Dialogue	How students' inspirations and aspirations impact motivation and engagement in the first year of study  Mel Lacey, Hollie Shaw, Caroline Dalton and David Smith  Inclusivity in academic support:	Room C  Flexible STEM education for a post-pandemic world: a case study in Computer Science  Neil Gordon  Statistics Service Teaching:	Chair: Trevor Collins Room D  Smart Worksheets to Identify Student Numeracy Skills in the Division of Natural Sciences  Alexandra Moores and Francis Samra **
	Room A  Attitudes and Aptitudes in an Interdisciplinary STEM Programme  Sarah Gretton, Derek Raine and Cheryl Hurkett  Employing a Socratic Dialogue when creating online lecture	How students' inspirations and aspirations impact motivation and engagement in the first year of study  Mel Lacey, Hollie Shaw, Caroline Dalton and David Smith  Inclusivity in academic support: Can strategies to support remote	Room C  Flexible STEM education for a post-pandemic world: a case study in Computer Science  Neil Gordon  Statistics Service Teaching: What type of support should we	Chair: Trevor Collins Room D  Smart Worksheets to Identify Student Numeracy Skills in the Division of Natural Sciences  Alexandra Moores and Francis Samra **  A Virtual Practical Produces Surprising Results
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	Room A  Attitudes and Aptitudes in an Interdisciplinary STEM Programme  Sarah Gretton, Derek Raine and Cheryl Hurkett  Employing a Socratic Dialogue when creating online lecture content	How students' inspirations and aspirations impact motivation and engagement in the first year of study  Mel Lacey, Hollie Shaw, Caroline Dalton and David Smith  Inclusivity in academic support: Can strategies to support remote learning help to narrow the gap?  Nicola Swann, Hannah J. Moir, Frank Owusu-Sekyere, Taz Baker	Room C  Flexible STEM education for a post-pandemic world: a case study in Computer Science  Neil Gordon  Statistics Service Teaching: What type of support should we provide?	Chair: Trevor Collins Room D  Smart Worksheets to Identify Student Numeracy Skills in the Division of Natural Sciences  Alexandra Moores and Francis Samra **  A Virtual Practical Produces Surprising Results  David Gould and Sadani Cooray **  The impact of effective online design and the use of Learning Science

	students learning of data	science research as a career in	Holly Gilbert, Duncan Lawson,	**
			1 · · · · · · · · · · · · · · · · · · ·	
	management and analysis	post-16 Biosciences and	Mark Hodds, Lara Gildhaus,	The Use of an Inclusive Curriculum
		Chemistry students	Mirko Shurmann and Michael	Framework to close a BAME module
	Sharon Dawes, Chris		Liebendoerfer	award gap
	Thomson, Stephen Bowles and	Mel Lacey, Rachel Schwartz-		
	Stephen Rice	Narbonne, Susan Campbell, Alex		Neil Williams
		Hamilton, Catherine Duckett and		
		Katherine Rawlinson		
12:30-13:30			Lunch	
13:30-14:00		'Birds of a Feathe	er' Networking Session	
Room BoF 1	BoF Topic 1	Learning from the pandemic	What should the new normal loo	k like? Over the past 16 months we've
	Facilitators: Simon Grey and		had to rapidly adapt ourselve	s and our teaching to a new way of
	Neil Gordon		functioning. Some adaptations ha	ave been successful, and some less so.
			As we ease our way back to face	to face teaching what lessons have we
			learned – what worked and wha	t didn't, and what practices should we
			carry forward to ensure that ou	ur teaching is better than ever with a
			truly blen	ded approach?
Room BoF 2	BoF Topic 2	Can we use Course Level	How can we support our gradu	lates in studying their whole subject
	Facilitator: Mark Jones	assessment for STEM subjects?	rather than compartmentalising their learning into modules? What	
			approaches can we use to move away from module assessment to a	
			more course-based approach? Are you already doing this, and would	
			you be willing to share some good practice?	
Room BoF 3	BoF Topic 3	Tools and Techniques for Effective	e Over the past year, teaching staff have had to rapidly get to grips with	
	Facilitator: Trevor Collins	Hybrid Teaching	online teaching and learning. As we move forward into the future, it is	
			likely that we will need to bec	ome proficient with running Hybrid
			teaching sessions – where some	students are co-present in a teaching
			space, whilst other students acc	cess the session remotely. The aim of
			-	riences on how such Hybrid teaching
			sessions can	be best achieved.
Room BoF 4	BoF Topic 4	How do we best support under-	In recent years, there has been	a focus on supporting students from
	Facilitator: Alison Graham	represented students whilst they	•	apply to university but less focus on
		are at university?	, , , , , , , , , , , , , , , , , , , ,	ice they are at university. Do these
		,		areas and how do we best deliver that
			1	an inclusive way?
	I.	l .	1 2 2 4 2 5 7 7 7 7	<b>,</b> -

Room BoF 5	BoF Topic 5	Students should co-create STEM	We are Biomedical Science stud	ents and also Student Lecturers. We
	Facilitators: Rachel Cornish	curricula: let's ruffle feathers with	would be interested to have a discussion with staff (and any stude	
	and Mansi Patel	a student-led debate!	present) to debate the extent to	which students are currently involved
			as equal partners in the creation	of STEM courses, and to recommend
			the Student	Lecturer model.
14:00-15:00	Short Orals: Assessment 2	Short Orals: Employability, WBL	Short Orals: Active Learning 2	Workshop 1
	Chair: Nicola McIntyre	and Apprenticeships 1	Chair: Sarah Gretton	Chair: Duncan Parker
	Room A	Chair: Elinor Jones	Room C	Room D
		Room B		
	Searching for Best Practice in	Supporting activities to embed	Interdisciplinary Co-creation for	Developing online collaborative
	the Successful use of Mark	creativity and innovation as an	active learning of immunology	design and prototyping for a Gold
	Schemes: Top Ten Tips for	implicit part of the bioscience	concepts	Standard Project Based Learning
	Successful Post-hoc Marking	student experience		(GSPBL)Multi-disciplinary Project
			Eva Malone, Richard Firth and	
	Simon Lock, Lucy Berthoud	Francesca Mackenzie, Anna	Iain Macdonald	Avalon Cory and Corrina Cory
	and Becky Selwyn	Morgan, Michael Stolinski,		
		Amanda Baker, Dwain Reid,		
		Martha Mador and Nigel Page		
	Implementation of exam	Structured Biomedical Sciences	Inclusive inter-disciplinary	
	proctoring for an end of	Honours Projects: A Protocol for	outreach: Learning in action,	
	module exam: Case study from	Resilience and Preparedness for	learning from action	
	the department of Pharmacy	the World of Work During the		
	at Kingston University	Pandemic?	Jane Essex and Margaret	
			Cunningham	
	Ali Al-Kinani, Shereen El	Claire Garden		
	Nabhani, John Fletcher and			
	Kyren Burns			
	Peer Assessment through	Outreach in the curriculum: Skills	Design, Development and	
	Comparative Judgement:	development in undergraduate	Evaluation of a Green Chemistry	
	setting and assessing less	and postgraduate Biosciences	Concept Inventory	
	structured mathematics	and Chemistry students		
	questions		Barbara Villa Marcos, James	
		Katherine Rawlinson, Susan	Bennett and Mohamed Hamud	
	David Sirl	Campbell, Amber Shakeel, Harry		
		Linsley and Melissa Lacey		
15:00-15:15			Break	

15:15-16:15	Short Orals: Pedagogical Research 1 Chair: Julie Robson Room A	Short Orals: Sustainability 1 Chair: Alix Blockley Room B	Short Orals: Transitions and Student Support 2 Chair: Neil Gordon Room C	Workshop 2 Chair: Mark Jones Room D
	Disciplinary literacies in STEM: What do undergraduates read, how do they read it, and can we teach scientific reading	A sustainability snapshot within a large post-92 university from different perspectives	Student use of digital experience insights and transitions data to develop data literacy via undergraduate MPharm	What should an inclusive and student-centred timetable look like post-COVID-19?
	more effectively?	Hilda Mulrooney and Lisa Chevallereau	research projects	Nigel Page, Gary Forster-Wilkins and Mark Bonetzky
	Katharine Hubbard		Elizabeth Newall, Cristina De Matteis, Stephanie McDonald, Helen Boardman, Vibhu Solanki, Celine Thien, Chidubem Ugwu, Madihah Hussain and Po Kamta	
	The Importance of Problem Solving in Maths Online Teaching	Computing student attitudes to environmental sustainability education	Forging friendships in first year: CS entrants' reflections on collaborating in a small-group, large-class setting	
	Ksenia Shalonova	Sally Smith, Callum Egan and Christina Plum	Jyoti Bhardwaj	
	Training the Lively Mind: Toward a Signature Pedagogy for Cybersecurity	Enhancing Programme Management to enable Programme Leadership: A	What's the point of A-levels?  Nicky King	
	Ashley Gess	Roadmap for Programmes  Eva Malone, Adam Satur, James Fontana and Steve Yorkstone		
16:15-16:30			Break	
16:30-17:30	Short Orals: Assessment 3 Chair: Neil Williams Room A	Short Orals: Employability, WBL and Apprenticeships 2 Chair: Sarah Gretton Room B	Short Orals: Transitions and Student Support 3 Chair: Duncan Parker Room C	Short Orals: Pedagogical Research 2 Chair: Elinor Jones Room D
	Integrated Assessment in Brunel Design Programmes	Two Years into a Level 6 Laboratory Scientist (Chemistry)	Transition and support experiences of first-year STEM	Design and application of the LivChoices web app to signpost

	Hua Dong and Stephen	Degree Apprenticeship: A	students in distance learning	programme pathways for C100
	Cockett	Reflection	universities	Biological Sciences students
		Barbara Villa Marcos, Oscar Siles	Maria Aristeidou	Rachel Floyd, Zenobia Lewis and
		Brugge, James A. Bennett, Trevor		Robert Treharne
		Farren, Kyle W. Galloway,		
		Katherine Jolley, Glenn Lees, Sian		
		Masson and Jonathan McMaster		
	Flipped Feedback – Engaging	Cross-disciplinary perceptions of	Exploring and supporting	Students as Partners in Scholarship
	Students with the Feedback	research-informed teaching	undergraduate students' digital	of Teaching and Learning – Lessons
	Process	David Smith Libby Allegal, Lawis	learning transition from school	from Practice
	Nigel Francis, Kathryn Sinclair	David Smith, Libby Allcock, Lewis Partington, Jo Lidster, Girish	to university	Cath Brown, Jenny Duckworth,
	and Owen Bodger	Ramchandani, Jon Wheat and	Stephanie McDonald, Cristina	Charlotte Hancox and Catherine
	and Owen Bodger	Mel Lacey	De Matteis, Elizabeth Newall,	Halliwell
		Wiel Edde,	Fiona McCullough, Lisa Mott,	
			Barbara Villa Marcos, Vibhu	
			Solanki, Nicholas Rea, Rossana	
			Wright, Steven Bagley, Steven	
			Bamford, Qingqi Wang and	
			Anshul Lau	
	Engaging students through	Student agency in a chemical	Moving beyond a threshold –	Learning & Teaching Adjustments
	feedback at scale on an	engineering curriculum:	developing writing skills in a	within the Mathematical Sciences in
	introductory programming	perceptions, connections, and	Bioscience undergraduate	Response to the Covid-19 Pandemic
	course	critical thinking	cohort	Naish and Gurana Nanthanna Hardan
	Simon Grey and Neil Gordon	Mark Haw, Steven Pisani and	Alfred Thumser, Sarah Bailey	Michael Grove, Matthew Henley, Rachel Hilliam, Kevin Houston and
	Sillion Grey and Neil Gordon	Conor Teahan	and Simon Lygo-Baker	Duncan Lawson
17:30-18:00		<u>I</u>	ne Down	Duncan Lawson
27.00 20.00			in Room	
	A chance to come to	gether with other delegates and refle		over a tipple of your choice!
18:00			of Day One	

9:15-9:30	Registration Day Two: Horizons in STEM Higher Education Conference: Wednesday 30 <sup>th</sup> June Helpdesk			
9:30-10:30	Short Orals: Assessment 4 Chair: Trevor Collins	Short Orals: EDI 3 Chair: Elinor Jones	Short Orals: Active Learning 3 Chair: Cristina De Matteis	Short Orals: Laboratory Work 2 Chair: Neil Williams
	Room A	Room B	Room C	Room D
	Evaluation of students'	Study skills for scientists - are	Does taking part in a healthy	Challenges and Opportunities for
	employability skills	students prepared for the	lifestyle challenge enhance	Online Practical Work in Sub-
	development and the use of	transition to a science degree?	student learning and change	Saharan Africa
	radar diagrams in Personal		their attitudes to people living	
	Development Planning	Katherine Rawlinson, Elise	with obesity?	Femi Babalola and Sina Fakoyede
		Charlton and Susan Campbell		
	Fiona Aiken and Christopher		Louise Dunford, Yannan Jin,	
	Hutton		Agata Buczak, Amena Abdulla	
			and Zoe Redshaw	
	Curriculum review for 1st year	Supporting Students' Scientific	Using a SLICC (Student-led	Cloud Computing in Computer
	Mechanical, Aerospace and	Writing in the Age of COVID:	Individually Created Course) and	Science Education
	Civil Engineering	Taking Kingston University's SEC	the RDF (Researcher	
		Academic Success Centre (SASC)	Development Framework) to	Matt Collison and Achim Bruker
	Lucy Berthoud, Sean Lancastle	Online	capture the experiential	
	and Mark Gilbertson		learning of a cohort of	
		Simon Lambe and Maia Ibsen	interdisciplinary PhD students	
			on an industry project	
			Layla Mathieson, Kirsty Ross,	
			Jean O'Donoghue and Fumi Kitagawa	
	"Discussion boards don't	An Appraisal of Apprentices'	Problem-Based Tuition in	Home Lab kits: a COVID anomaly or
	work": Evaluation of a course	Satisfaction and Engagement	Blended Environments	a learning innovation to promote
	blog for teaching with Second	<b>,</b>		'playful' Engineering? Reflections on
	Year Bioscientists	Nnedinma Umeokafor, Hasan	Derek Raine, Sarah Gretton and	their development, delivery, and
	1 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Haroglu, Lily Dixon, Imogen Dyer	Dylan Williams	impact on learning
	Chris Willmott	and Kieran Turner		
		and meran ranner		Jude Bramton, Sean Lancastle, Joel
				Ross and Becky Selwyn
10:30-10:45			Break	

10:45-11:45	Short Orals: Blended and	Short Orals: EDI 4	Short Orals: Transitions and	Workshop 3
	Online Learning 2	Chair: Neil Gordon	Student Support 4	Chair: Derek Raine
	Chair: Mark Jones	Room B	Chair: Julie Robson	Room D
	Room A		Room C	
	Exploring belonging in an	Practitioner examples of	Professional Practice,	A Table-Top Role-Playing Game
	online world: perspectives of	improving accessibility in online	Accreditation and Citizenship:	(TTRPG) for developing Higher
	staff and students	tuition	Embedding Equality, Diversity	Education employability skills
			and Inclusion in Engineering	
	Lija Abu, Craig Chipfuwamiti,	Rachel Slater, Anne Campbell,	Programmes	Ian Turner and Louise Robinson
	Adrian Costea, Alison Kelly,	Elaine McPherson and Christine		
	Krisztina Major and Hilda	Pearson	Corrina Cory and Avalon Cory	
	Mulrooney			
	The Virtual Palaeosciences	Widening Participation by	Maintaining Engineering	
	Project: connecting,	Effective Outreach in Chemistry	Students' Sense of Community	
	innovating and sharing online		through a Peer Assisted Study	
	pedagogies in a traditionally	Andrea Mallaburn, Linda Seton	Scheme	
	hands-on field	and Victoria Brennan		
			Sean Lancastle, Aaron Grice and	
	M. Jane Bunting		Lucy Rycroft	
	Evaluation of NUMBAS	Demographic gaps in physics		
	software for creating	attainment and degree outcomes		
	undergraduate chemistry			
	online lab resources	Arran Stirton, Holly Hedgeland,		
		Annika Lohstroh and Sally Jordan		
	Frances Docherty, Beth			
	Paschke and Ellecia Queen			
11:45-12:15		Closing Keyr	note Presentation	
		-	in Room	
	Professor Jon Scott FRSB, Higher Education Consultant and Emeritus Professor of Bioscience Education, University of Leicester			
	Fr	agmented transitions: Reflections on		
12:15-12:30		•	ission Process and Closing Remarks	3
	Main Room			
12:30	Conference Close			