



The 9th eSTEeM Annual Conference Informing Student Success – From Scholarship to Practice 29-30 April 2020

FINAL PROGRAMME

Day 1: Wednesday 29 April 2020

Time	Session	Venue
9.30-10.00	Registration and Coffee	Hub Suite
10.00-10.05	Welcome and Introduction	Hub Lecture Theatre
	Diane Butler and Trevor Collins, eSTEeM Directors	
10.05-10.10	Opening Address	Hub Lecture Theatre
	Nicholas Braithwaite, Executive Dean, Faculty of STEM	
10.10-11.30	Opening Workshop: Addressing Inequitable Outcomes for Black Students at The OU Workshop	Hub Lecture Theatre
	Wendy Fowle, John Butcher and Darren Gray, Access, Participation and Success Evidence from across the sector and institutional data at the Open University suggests differential outcomes for students from different ethnic backgrounds. A student's ethnicity can amplify disparities that exist within higher education. For example, the gap between the likelihood of white students and students from Black, Asian or minority ethnic backgrounds (BAME) getting a first or upper-second-class degree was -13 percentage points across the sector in 2017/18. For The OU with our open entry policy and social justice mission the picture is just as stark, if not more alarming.	
	 Our BAME student proportion is around 11%, less than half of the sector Our BAME students are less likely to: complete their modules than white students -4.45 (OU) and -6.96 (STEM) percentage point gap in 2017/18 	

Chair: Mark Endean	Halliwell and Jenny Duckworth	conference in Open Studio develop students' critical evaluation skills?	an asynchronous online conference aid the development and articulation of advanced skills? We share our findings on this question focusing on the digital literacy, deeper			
11.45-12.45 Session A	Parallel Session A: Short Oral Presentations – Innovations in assessment & Technologies for STEM learning Catherine Can an asynchronous student Can a novel assessment based on student participation in					
11.30-11.45	Morning Coffe		''	Medlar and Juniper Presentation Room		
11 20 11 15	_	deeper understanding of the issues.		Modley and live		
	eSTEeM will be area of BAME a					
	will be showcas					
	The Access, Participation and Success (APS) team will lead an interactive session to highlight key data, share experience of their project 'Closing the Black Attainment Gap', the APP targets and pathways to success, and implication for The OU on not achieving a reduction in the gaps. The 'inclusive curriculum tool' developed by APS					
	just because th	5 .	ut because it is inequitable and a damning indictment of our			
1	Participation Pl	an (APP) which is currently awaiting ap	oroval by the Office for Students (OfS) requires ambitious to their overall elimination. We need to reduce these, not			
	The emphasis of	on the BAME degree awarding gap is mi	rrored across the different UK nations. The OU's Access and			
		rsisted for many years and shows no sig				
	0 0		p between Black students and white students of -13.9 and 2:1) of -31.1 percentage points in 2017/18. The size of			
		•	omogenous group, all students are unique. However,			
	o achieve	o achieve a good pass -19.94 (OU) and -17.13 (STEM) percentage point gap in 2017/18				
	o pass th	eir module -6.44 (OU) and -6.31 (STEM)	percentage point gap in 2017/18			

	Matthew Nelson and David Bowers Andrew Potter and Colin Blundell	Large-scale game-based activity for delivering experience of communication within teams Blended Tutorials in Mathematics - Simultaneous Face-to-Face and Online Learning Events	A game-based activity provides student with an engaging experience of working as a team without some of the negative aspects often found in assessed practical teamworking. A reflective assessment question demonstrates that students have been engaged and have learnt lessons about team roles and team-working skills. "Blended tutorials" are tutorials which take place simultaneously as face-to-face and online tutorials. We present the results of a pilot of two "blended tutorials" on the Level 3 pure mathematics module M337 Complex Analysis.	
11.45-12.45	Parallel Session	B: Short Oral Presentations – Supporti	ng Students	Presentation Room B
Session B Chair: Sally Jordan	Janette Wallace and Isabella Henman Cathryn	The role of large informal online workshops to engage and enthuse students studying SDK228 an interdisciplinary level 2 module The Change in Student Engagement	A programme of informal interactive module wide workshops were created to support students studying SDK228. Initial evaluation suggests students feel more engaged with their peers, tutors and the module overall as a result of attendance at the workshops. This presentation explains the design, implementation and student perspective of the programme Students can often give an impression that they want	
	Peoples	with Personalised Support: An Evaluation at the Mid-way Point of an eSTEeM-funded Project	more support from their tutors. This session will examine the way that personalised support, offered as part of an eSTEeM-funded project, is embraced in varying proportions across a cohort, and in particular, the way that involvement changes throughout the year.	
	Mark Jones, Sarah Chyriwsky, Judith Croston, Ulrich Kolb, Susanne Schwenzer	Online Team Investigations in Science (OTIS) – The student view of online team-working in astrophysics and space science	We present an analysis of interviews with students about their experiences on team projects in astronomy and space sciences, focussing on their views about the design and assessment of the projects, their experiences of peer learning, and the value that they place on engaging in team working activities.	

	and Sheona			
	Urquhart			
11.45-12.45	Parallel Session	Workshop Room C		
Session C	Rachel Slater, Patrick Murphy, Elaine McPherson and Anne Campbell	Accessibility and inclusion in tuition: examples of individualised support	Accessibility and inclusion in tuition (AccIT) is an eSTEeM scholarship project designed to support STEM ALs by gathering and sharing examples of specific and personalised support tutors have put in place to address individual students' needs.	
11.45-12.45	Parallel Session	D: Short Oral Presentations – Technolo	ogies for STEM learning	Presentation Room D
Session D Chair: Jimena Gorfinkiel	Adeola Adeliyi, Michel Wermelinger, Jon Rosewell and Karen	A systematic review of pair programming for learners of programming at a distance	As an alternative to performing a literature review, we conducted a systematic review in order to reveal the answers to our study questions pertaining to the issues of remote pair programming in teaching programming at a distance.	
	Sharon Dawes, Chris Thomson, Stephen Rice and Stephen Bowles	How Jupyter Notebooks enhance learning and teaching on TM351	Jupyter notebooks offer a way to combine teaching material with practical coding activities for data analysis. We present our initial findings in a project to examine how students on TM351 use Jupyter notebooks in their studies.	
	Patrick Wong, Helen Donelan and Tony Hirst	Understanding and mitigating students' difficulties in undertaking complex practical activities on their computers	Practical activities can improve students understanding of technological concepts and their technical skills. Computing activities often require students to install specialised-software. When problems occur, getting immediate support is difficult as they are distance learners. This study investigated students' experiences of using virtualisation for their practical activities and identified difficulties experienced.	

12.45-13.45	Lunch Break			Hub Lecture Theatre
	Delegates are w			
13.45-14.30	 Ignite Presentations – Future Innovative Scholarship Matthew Nelson – Storytelling in computing education Carol Calvert and Rachel Hilliam – A qualification world? Sarah Daniell and Lorraine Waters – Evaluation of students' accessibility and use of online tutorials and forums in Level 2 modules, with specific focus on the experience of D flag students Nick Chatterton and Eleanor Crabb – Developing the equivalent of student whiteboards for use in Adobe Connect tutorials and in forum posts Ann Grand – Learning to be an engaged research community 			Hub Lecture Theatre
14.30-14.45	Afternoon Tea I		community	Medlar and Juniper
14.45-15.45		E: Short Oral Presentations – Employa	bility	Presentation Room E
Session E	Andrew Potter, Gerry	Promoting Good Mathematical Communication as a key	We present a learning resource designed to help support the development of Good Mathematical Communication	
Chair: David	Golding and	Employability and Transferable Skill	(GMC) skills, using feedback from ALs via forums and	
Conway	Sally Crighton	in Level 1 Service Mathematics	focus groups. We consider the relevance of GMC skills to employability, under the wider umbrella of "Communication and Presentation" skills.	
	Rupesh Shah, Helen Wilding, Martin Reynolds and Ray Ison	Curriculum innovation – transforming postgraduate learning systems for a world in turbulence	Academics from the Applied Systems Thinking in Practice (ASTiP) group have been involved in ongoing systemic inquiry aimed at informing the development of OU postgraduate learning. We report on research into attempts to reconfigure PG curriculum development in the context of significant institutional changes and challenges presented for distance learning organisations.	
14.45-15.45	Leonor Barroca and Matthew Walkley	Who are our apprentices? F: Workshop withdrawn from program	As access and participation are pressing issues for higher education it is important to understand the profile of our apprentices as a basis for sound decisions on the future approach to apprenticeships and to the recruitment of apprentices.	

14.45-15.45	Parallel Session	G: Short Oral Presentations – Online/C	Onscreen STEM practice & Supporting Students	Presentation Room G
Session G	Susan Pawley	Maximising online tutorial	The cost of providing regular online tutorials is high and	
		attendance of a high population	so it is important that these resources are used	
Chair: Laura		level 1 module	effectively. To maximise attendance, MST124 have	
Alexander			altered their online tutorial provision, providing module	
			wide tuition streams based on time of tutorial, study	
			speed and study programme. Initial results are	
			encouraging.	
	Anne-Marie	Perceptions, Expectations and	Following an earlier project investigating the perceptions,	
	Gallen, Mark	Experience of Group Tuition:	expectations and experiences of tuition of Associate	
	Jones and	towards a shared understanding	Lecturers, this presentation will review our survey of	
	Anne	amongst stakeholders (part II: the	level-1 STEM students. We will summarise student	
	Campbell	student perspective)	expectations around tuition in groups, how these differ	
			between online and face-to-face tuition and from the	
			perceptions of our Associate Lectures.	
	Rachel Hilliam,	The Mathematics and Statistics	The Mathematics and Statistics (M&S) Study Site provides	
	Gaynor	Study Site: Facts, figures and further	a one-stop-shop of information, advice and guidance,	
	Arrowsmith,	plans	through working collaboratively with the student support	
	Alexander		team and careers to give holistic student support. By	
	Siddons, Derek		using a variety of methods to point students towards the	
	Goldrei and Cath Brown		site, the analytics show yearly increase in engagement.	
15.45-16.00	Afternoon Tea B	 Brook		Medlar and Juniper
16.00-16.30		g Keynote Presentation		Hub Lecture Theatre
10.00-10.30	•	University of Wolverhampton		Tidb Eccture Tileatre
	I IIII Gravestock,	omversity of workernampton		
	Addressing Disp	parities in Student Success: enhancing E	BAME students' achievement	
	The gap in higher education degree attainment between UK-domiciled white students and Black, Asian and			
	minority ethnic (BAME) students has been prevalent for over 10 years. The extent of the gap becomes more			

	explicit when the BAME categories are considered separately, with Black students showing the greatest gap in attainment compared with white students. This disparity in award outcomes for students from different ethnic groups has been highlighted by the Office for Students as a specific target that the higher education sector has to address. The diversity of students entering higher education means that it is hard to provide appropriate support to ensure	
	that all students: develop a sense of belonging; make meaningful learning relationships; and acquire the appropriate academic skills to meet the assessment requirements to allow transition into subsequent academic levels.	
	This presentation will reflect upon research that has been undertaken as part of national projects – such as 'Disparities in Student Attainment (DiSA)', 'What Works?', 'DRIVER, Data Responsive Initiatives as a Vehicle for achieving Equity in Results' and 'Value-added' – to enhance BAME students' attainment, success and progression.	
16.30-16.45	eSTEeM Scholarship Projects of the Year Awards Awards for the Scholarship Projects of the Year in two categories – Innovative/Original Approach to Teaching and Enhancing the Student Experience followed by day one closing remarks by Nicholas Braithwaite.	Hub Lecture Theatre
16.45-17.30	Wine Down Delegates are invited to bring along their drink of choice and join colleagues to reflect on day one.	Medlar and Juniper
17.30	Close	

Day 2: Thursday 30 April 2020

Time	Session Registration and Coffee Parallel Session H: Short Oral Presentations – Technologies for STEM learning, Supporting Students & Innovations in assessment			Venue
9.00-9.30				Hub Suite
9.30-10.50				Presentation Room H
Session H	Catherine Halliwell,	Can a new OU Study App enhance the learning experience of students	A new OU Study App has been trialled on a number of STEM modules since October 2019. Our project has	
Chair: Duncan Banks	Simon Collinson, Rachel McMullan and Jenny Duckworth	on \$350, an online only module?	looked at how students are using this App to aid their studies and enhance their learning experience of S350, a level 3 science module.	
	Steve Walker, Tom Olney, Carlton Wood and Anactoria Clark	Learning analytics - let's get real!	The results of some learning analytics pilots in STEM have delivered disappointing results. We discuss a realist approach to evaluation that may help to identify potentially generalisable underlying mechanisms.	
	Jake Hilliard, Patrick Wong, Karen Kear, Helen Donelan and Caroline Heaney	Using Real Time Student Feedback (RTSF) as an Emotion Awareness and Regulation Tool in an Assessed, Online, Collaborative Project	This study uses the OU VLE's Real Time Student Feedback (RTSF) facility as an emotion awareness and regulation tool during a 9-week assessed, online collaborative project in the Communication and Information Technologies (TM255) module. Preliminary findings will be presented and practical implications of using RTSF will be discussed.	
	Jim Iley and Nick Adams	Single Component Assessment Examination and Exam Feedback: the S112 experience	The S112 SCA-OES assessment strategy and approach to automated exam feedback is outlined. Students do not 'game' the assessment strategy. While S112 prepares students for Stage 2 study, particularly S209, dropout from, and performance on, S215 is significantly affected.	

			Automated exam feedback, generated using MS Excel,	
			provides high levels of student satisfaction.	
9.30-10.30		I: Workshop/Demonstration – Support		Workshop Room I
Session I	Shirley Evans,	An AL led eSTEeM action research	This session is about an Associate Lecture led scholarship	
	Manish Malik	project to support students and	project entitled 'Strategies to support students and	
	and Winston	tutors: challenges and opportunities	tutors with online collaborative projects: an action	
	Graham		research project.' Participants will have the opportunity	
			to reflect on their own practice and/or experiences and	
			strategies they might employ in future online group work	
			activity.	
9.30-10.30	Parallel Session	J: Workshop/Demonstration - Online/	Onscreen STEM practice	Workshop Room J
Session J	Nick	Generating graphical content for	Bite size videos, such as those developed by the Khan	
	Chatterton,	teaching: a simple and cheap way to	Academy, have proven extremely popular with students	
	Eleanor Crabb	produce diagrams/symbol rich	worldwide. This workshop aims to demonstrate how	
	and Kate	content for forum postings and for	effective short "pen and ink" videos can be produced	
	Bradshaw	live streaming in Adobe Connect	rapidly, and economically, in response to student queries	
10.50-11.05	Morning Coffee			Medlar and Juniper
11.05-12.25	Parallel Session	K: Short Oral Presentations – Commun	ity Building, Support for ALs & Employability	Presentation Room
				K
Session K	Janet	Building a community of STEM ALs –	The STEM-ByALs-ForALs programme of online events –	
	Haresnape,	extension of the STEM-ByALs-ForALs	running since 2015 – enables ALs to share good practice	
Chair:	Rupesh Shah,	programme to include more social	in a supportive environment. It is helping to build	
Stephen Lewis	Nirvana Wynn	learning opportunities	community cohesion among STEM ALs. Recent expansion	
	and Barbara		to include more social learning opportunities makes it	
	Jones		particularly valuable as we move towards the new AL	
			contract.	
	Venetia	Exploring the use of Labcasts to	Interactive web broadcasts provide module teams and	
	Brown, Alan	Support Associate Lecturers	their students an opportunity to engage in live, practical	
	Cayless and Jo		demonstrations and lab experiments. This presentation	
	Jarvis		will share findings on how the use of labcasts can support	
			ALs on a presentation and enable a greater	
	1		understanding of the student experience during labcasts.	

	David Conway	What are the careers education, information, advice and guidance needs of Open University Level 1 Computing and Communication students?	A growing number of Open University (OU) students are studying for career motivations. Unlike traditional universities the majority of OU careers engagement comes from 1st year students. Students from The School of Computing and Communications are some of the highest users of careers services.	
	Fiona Aiken and Chris Hutton	Student perceptions and development of employability skills in level 1 science	S112 uses radar diagrams for students to self-assess and reflect on their employability skills development. We examined how students use radar diagrams, and how their skills develop. Interim results suggest most students do not find radar diagrams an effective tool, and a qualification approach to employability skills would be beneficial.	
11.05-12.25	Parallel Session	L: Short Oral Presentations – Supporting	ng Students & Equality, Diversity and Inclusion	Presentation Room L
Session L Chair: Alec Goodyear	Catherine Halliwell and Cath Brown	TMA Extensions: How are they used and what is their impact on student success?	Has the increase in high-intensity study resulted in more students asking for extensions? That's certainly the perception, but how accurate is it? Our project examines how students are using extensions, and more importantly, the impact extensions have on their success.	
	Gerry Golding and Andrew Potter	Developing "use value mindsets" to enhance undergraduates' perceptions of learning mathematics in a first-year service mathematics environment	An investigation into student perceptions of the usefulness of mathematics at Level 1. We use the concepts of "use value" and "exchange value" to explore student perceptions of their mathematical study. We present initial findings from our scholarship work into developing "use value mindsets" on MU123 Discovering Mathematics.	
	Chris Hughes, Chetz Colwell, John Clarke, Kaye Williams and Alison Bromley	Evaluating the accessibility of an alternative format of module materials in Maths & Stats	We report on an eSTEeM-funded project in which we consulted with the RNIB to evaluate a prototype alternative format designed for students in maths and stats who use assistive technology.	

	Т	Τ		T
	Anne-Marie	Factors influencing female	Why do female graduates within Physics and Engineering	
	Gallen, Clare	participation in Physical Science	choose certain doctoral research areas above others? In	
	Reger and	Postgraduate Research Programmes	this presentation we will share the outputs of a survey of	
	Mark Bowden		female nuclear fusion doctoral students focusing on the	
			factors influencing the progression choices of women	
			into postgraduate research within the physical sciences.	
11.05-12.05	Parallel Session	M: Workshop/Demonstration – Techno	ologies for STEM learning	Workshop Room M
Session M	Trevor Collins,	Putting Innovation into Practice –	What can we do to improve the impact of scholarship? In	
1	Rebecca	Enhancing the STEM curriculum	this workshop we'll explore some of the implementation	
	Ferguson and	through scholarship	frameworks designed to translate educational research	
	Eileen Scanlon		into practice and consider what further support is needed	
			at the OU to ensure our scholarship is not wasted.	
12.30-13.15	Poster Presenta	tions		Hub Lecture Theatre
	Delegates are in	vited to vote for the best poster. The w	vinning poster will be announced during the closing keynote	
	session at the er	nd of day two.		
13.15-14.00	Lunch Break			Hub Lecture Theatre
	Delegates are w	elcome to continue browsing posters ov	ver lunch.	
14.00-15.00	Parallel Session	N: Short Oral Presentations - Internati	ional partnerships & Supporting Students	Presentation Room
				N
Session N	Tom Olney,	'More Learning Designers are	This paper is concerned with identifying which skills and	N
Session N	Tom Olney, Mark Endean	'More Learning Designers are Needed': Identifying the	This paper is concerned with identifying which skills and competencies further professional development activities	N
Session N Chair: Shailey	* *		, ,	N
	Mark Endean	Needed': Identifying the	competencies further professional development activities	N
Chair: Shailey	Mark Endean and Duncan	Needed': Identifying the instructional design competencies	competencies further professional development activities might focus on should Chinese Open Universities wish to	N
Chair: Shailey	Mark Endean and Duncan	Needed': Identifying the instructional design competencies required for the successful	competencies further professional development activities might focus on should Chinese Open Universities wish to embed all or part of the UKOU approach to learning	N
Chair: Shailey	Mark Endean and Duncan	Needed': Identifying the instructional design competencies required for the successful implementation of the UK Open	competencies further professional development activities might focus on should Chinese Open Universities wish to embed all or part of the UKOU approach to learning	N
Chair: Shailey	Mark Endean and Duncan	Needed': Identifying the instructional design competencies required for the successful implementation of the UK Open University learning design approach	competencies further professional development activities might focus on should Chinese Open Universities wish to embed all or part of the UKOU approach to learning	N
Chair: Shailey	Mark Endean and Duncan Banks	Needed': Identifying the instructional design competencies required for the successful implementation of the UK Open University learning design approach in three Chinese Open Universities	competencies further professional development activities might focus on should Chinese Open Universities wish to embed all or part of the UKOU approach to learning design and course creation in their institutions.	N
Chair: Shailey	Mark Endean and Duncan Banks Kerry Murphy,	Needed': Identifying the instructional design competencies required for the successful implementation of the UK Open University learning design approach in three Chinese Open Universities OpenSTEM Africa: Strengthening	competencies further professional development activities might focus on should Chinese Open Universities wish to embed all or part of the UKOU approach to learning design and course creation in their institutions. The OU has partnered with the Ghanaian Ministry of	N
Chair: Shailey	Mark Endean and Duncan Banks Kerry Murphy, Jane Cullen,	Needed': Identifying the instructional design competencies required for the successful implementation of the UK Open University learning design approach in three Chinese Open Universities OpenSTEM Africa: Strengthening	competencies further professional development activities might focus on should Chinese Open Universities wish to embed all or part of the UKOU approach to learning design and course creation in their institutions. The OU has partnered with the Ghanaian Ministry of Education to enhance the quality of teaching and learning	N
Chair: Shailey	Mark Endean and Duncan Banks Kerry Murphy, Jane Cullen, Eric Addae-	Needed': Identifying the instructional design competencies required for the successful implementation of the UK Open University learning design approach in three Chinese Open Universities OpenSTEM Africa: Strengthening	competencies further professional development activities might focus on should Chinese Open Universities wish to embed all or part of the UKOU approach to learning design and course creation in their institutions. The OU has partnered with the Ghanaian Ministry of Education to enhance the quality of teaching and learning materials for practical sciences in Senior High Schools.	N
Chair: Shailey	Mark Endean and Duncan Banks Kerry Murphy, Jane Cullen, Eric Addae- Kyeremeh, Kris	Needed': Identifying the instructional design competencies required for the successful implementation of the UK Open University learning design approach in three Chinese Open Universities OpenSTEM Africa: Strengthening	competencies further professional development activities might focus on should Chinese Open Universities wish to embed all or part of the UKOU approach to learning design and course creation in their institutions. The OU has partnered with the Ghanaian Ministry of Education to enhance the quality of teaching and learning materials for practical sciences in Senior High Schools. The project leverages the experience gained in the	N
Chair: Shailey	Mark Endean and Duncan Banks Kerry Murphy, Jane Cullen, Eric Addae- Kyeremeh, Kris Stutchbury,	Needed': Identifying the instructional design competencies required for the successful implementation of the UK Open University learning design approach in three Chinese Open Universities OpenSTEM Africa: Strengthening	competencies further professional development activities might focus on should Chinese Open Universities wish to embed all or part of the UKOU approach to learning design and course creation in their institutions. The OU has partnered with the Ghanaian Ministry of Education to enhance the quality of teaching and learning materials for practical sciences in Senior High Schools. The project leverages the experience gained in the creation of the OpenScience Laboratory and couples this	N

	Janice Ansine,			
	Clem Herman,			
	Olivier Biard			
	and Joshua			
	Mallet			
	Stephen	Giving practical support to MSc	The paper presents the results of a project to determine	
	Burnley and	students in the Global South	the most effective way of supporting distance-learning	
	Sinead		MSc students in the Global South. It summarises our	
	O'Connor-		findings and recommendations from Kenya based on a	
	Gotra		student-led focus group, detailed interviews with	
			students and discussions with the programme team.	
14.00-15.00	Parallel Session	O: Workshop/Demonstration – Emplo	yability	Workshop Room O
Session O	Alexander	Decentralised Qualifications on the	This workshop will explore the different ways that	
	Mikroyannidis	Blockchain	education and employment qualifications can be	
			awarded, managed and verified on the Blockchain, as	
			well as how learners can receive personalised job or	
			course recommendations based on the qualifications	
			they have acquired.	
14.00-15.00	Parallel Session	P: Workshop/Demonstration – Suppo	rting Students	Workshop Room P
Session P	Fiona	STEM ISSS - where are we now?	AL and staff tutor perspectives on usage and	
	Moorman and	Evaluating awareness, usage and	effectiveness of Individual Student Support Sessions	
	Karen New	effectiveness of individual student	(ISSS) will be presented, providing context for 'small	
		support sessions	group' activities, to draw on experiences and thoughts of	
			colleagues. We anticipate that participants will gain a	
			wider appreciation of the potential for more effective use	
			of ISSS.	
15.00-15.15	Afternoon Tea I	Break		Medlar and Juniper

15.15-15.45	Day Two Closing Keynote Presentation	Hub Lecture Theatre
	Helen May, Higher Education Consultant	
	Achieving Positive Outcomes for All: What can we do and why does it matter?	
	Never before has it been more important to evidence the impact of our work on student outcomes or the wider society. The Teaching Excellence and Student Outcomes Framework (TEF) and Access and Participation Plans (APP) require universities to demonstrate they are systematically monitoring and evaluating student outcomes; identifying any differentials; taking positive action to address them; and can evidence the impact of those interventions on the achievement of positive outcomes for all. Over recent times, there has been a noticeable shift of emphasis away from a focus on the inequity of opportunity towards inequity of outcome. This is exemplified in the recommended use of 'Theory of Change' by the Office for Students in the preparation of APPs, and the equal emphasis given within the TEF criteria to 'Student Outcomes' to that of 'Teaching Quality' or to 'Achievement' 'Continuation' and 'Progression' as to 'Access'. There are significant differential outcomes – whether of attainment, progression to employment/further study – particularly amongst those with protected characteristics, which Universities now need to urgently address.	
	So, what does this mean for those working with students? What actions could you take? How do you know what difference you have made? This presentation will reflect on the differences you can make through your daily practices; the power of monitoring students' engagement and targeting as well as the importance of scholarship as a source of evidence.	
	Helen will draw on her specialist background in inclusion as well as her significant experience as a national leader of learning and teaching. Her presentation will also be informed by her leadership of an institutional wide TEF pilot and leading the Access and Participation evaluation plan as Head of Learning and Teaching in a city based, widening participation institution.	
15.45-16.00	Best Poster Prize	Hub Lecture Theatre
	The winning poster will be announced as voted for by delegates.	
16.00	Close	