	Horizons in STEM Higher Education Aston University Day 1 Wednesday 25th June 2025		
9:00 - 9:30	Registration MBA Lounge		
9:30 - 9:45	Welcome and Introduction Professor Osama Khan Deputy Vice-Chancellor (Academic) Aston University G11		
9:45 - 10:15	Plenary 1 Hosts of the First Horizons in STEM Conference G11 Chair: Joanne Gough		
	Time t	to move between rooms	
	Pedagogic Research G11 Chair: Nadia Lascar	Climate Education Susan Cadbury Chair: Shobana Dissanayeke	Assessment and Feedback Adrian Cadbury Chair: Erin Anderson
10:25 - 10:45	Exploring self-efficacy in introductory level STEM modules Sam Johnson The Open University	Aerosols in School: An Arts-led Active Learning Project Exploring Aerosol Science with a Community Concerned About Air Quality Vivienne Kuh and Rachael Miles University of Bristol	Modernising Railway Education: A Literature Review on Curriculum Evaluation Models and Technologically Driven Frameworks Prachiti Shinde, Marin Marinov and Reem Hadeed Aston University
10:45 - 11:05	Investigating the Barriers faced by Biomedical Science Undergraduate Students in Completing a Placement Year Kathryn Dudley and Amreen Bashir Wolverhampton University and Aston University	Bridging immunology and sustainability: an interactive and scalable workshop Bronwen Burton and Sophie Rutschmann University of Bristol and Imperial College London	Empowering student agency in assessment and feedback in Biological Sciences Rose Murray, Rebecca Pike and Reinart Jensema University of Bristol
11:05 - 11:25	Break for coffee MBA Lounge		
11:25 - 12:25	Poster/Networking Session Med School Clinical Suite		
12:25 - 13:10	Lunch MBA Lounge		

	Pedagogic Research G11 Chair: Alan Goddard	Active Learning Susan Cadbury Chair: Emily Harper	Laboratory, Field and Practical Work Adrian Cadbury Chair: Alice Robson
13:10 - 13:30	Exploring the experience of academic staff following the introduction of reflective portfolios into biosciences Higher Education curriculums in UK universities Emily Bell, Sarah Gretton, Cressida Lyon, Rebecca Thomas, Ruth Deighton, Gemma Chaloner, Nigel Page and Alison Cullinane University of Bristol, University of Bristol, University of Bath, Royal Holloway University of London, University of Edinburgh, University of Liverpool and University of Kingston	Ashleigh Fletcher, Gregor Colville, Katarzyna Sypek, Mark Haw, Mark Heslop, Miguel Jorge and Sorcha Daly	Integrating video to increase lab confidence and promote skill development Anna Kirkham University of Central Lancashire
13:30 - 13:50	Enhancing skills development in Sciences' students Elena Paci and Kobe Distin Bath Spa University	Digital escape rooms enhance physiology data analysis skills and student experience Nicky Morgan, Marriam Yaqoob and Matthew Jones University of Salford	Card games as effective tools to enhance bioscience laboratory health and safety education Holly Matthews, Rumana Rafiq, Daniya Abedalreza, Fatin Yahya and Matthew Jones University of Salford
13:50 - 14:10	Delivery and evaluation of a sepsis-focused interprofessional learning workshop between Biomedical Science and Nursing undergraduate students *Ross Pallett and Charlotte Bates* *Aston University*	Sleep duration associated with feelings but not with test scores Kosha Mehta King's College London	Smart Labs, Smarter Learning: AI-Powered Student Support in Remote Experiments Dhouha Kbaier and Andrew Mason The Open University
14:10 - 14:30	"Kind of students kind of staff" - Navigating roles: A thematic exploration of PhD demonstrators' experiences, identity, and career implications Nikki Dean Marshall, Tatiana Obretetskaya, Gemma Fox, Caitlin Cook, Catrin McAdams and Lee Parkin University of Nottingham	How to better support students in learning programming: A study to improve understanding on what students need in a post-COVID era Shun Ha Sylvia Wong, Richard Lee and Chloe M. Barnes Aston University	Beyond the Lab Manual: A Tailored, Group-Based Approach to Mastering the Scientific Method Stephanie Hodeib, Wayne Mitchell, and Sophie Rutschmann Imperial College London

14:30 - 14:50		Break for coffee	
	MBA Lounge		
	Digitally Focused Pedagogy G11 Chair: Charlotte Law	Student Partnerships Susan Cadbury Chair: Becky Thomas	LearnSci 2024 Teaching Innovation Awards winners Adrian Cadbury <i>Chair: Leanne Williams</i>
14:50 - 15:10 15:10 - 15:30 15:30 - 15:50	Marking in the Assessment of Student Coursework Simon Lock University of Bristol Beyond Translation:	Enhancing assessment and feedback literacy through staff-student partnerships and high-impact formative activities Fleur Corbett, Audrey Zhang, Emma Hance, Charlotte Patient and Katie Fisher University College London Making Diversity 'Count': Empowering students through cocreation of inclusive STEM curricula Ava Belafonte and Dr Rehan Shah Queen Mary University of London Bridging the Digital Skills Gap: Curriculum Design for CoAgency in the curriculum Antony Lees and Sam Penrice BPP University	2024 Teaching Innovation Awards winners Dr Juliet Stoltenkamp University of the Western Cape, South Africa Dr Alexandra Moores and Dr Emma Hargreaves University of Kent
		to move between rooms	
16:00 - 17:00	Workshop Med School Workshop on criteria and evidence for senior academic promotions for teaching-focused STEM academics Neil Williams, Sarah Gretton, Diane Butler and Trevor Collins Kingston University, University of Leicester, The Open University	Elizabeth Oladapo, Nazmul Hussain and Tominiyi Olupitan University of Nottingham	Workshop Med School Engaging Biosciences Students Through Gamified Problem-Solving: A Virtual Excel Escape Room for Teaching Descriptive Statistics Emily Harper Aston University
18:00 – 23:30	Con	nference dinner at Millennium P	Point

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		Horizons in STEM Higher Educat	ion
		Aston University	
		Day 2	
	Thursday 26th June 2025		
9:00 - 9:30		Registration	
		MBA Lounge	
9:30 - 10:00		Plenary 2	
	Dr Farhana	Gokhool, University of Bedford G11	Ishire
		Chair: Sue Pawley	
	Time	to move between rooms	
		Equality, Diversity and	5 I= I= II
	Student Support	Inclusion	DigitalEd Talks
	G11	Susan Cadbury	Adrian Cadbury
	Chair: Amy Patten	Chair: Karan Rana	Chair: Marty Callahan
10:10 - 10:30	Enhancing success in first-year	Evaluating the Tier 1 Oliver	
	biochemistry through student	McGowan Mandatory Training	Addressing HigherEd Challenges
	reflection and study plans	(OMMT) in learning disabilities	with Technology
	Christopher Love	and autism across health-related	
	Griffith University	courses at Aston University	Marty Callahan
		Amreen Bashir, Mary Drozd and	DigitalED
		Jayne Murphy	
10:30 - 10:50	Safeguarding the future of	Aston University Outnumbered but not necessarily	
10.30 - 10.30	chemistry: Why students are	outgunned: The effects of	
	turning away and how we can	classroom gender imbalance on	
	inspire the next generation	student outcomes	
	Amina Aminu, Frances Docherty	Alex Wilshaw	
	and Vicki Dale	Liverpool John Moores University	
	University of Glasgow		
10:50 - 11:10	How can we help our students		
	prepare for their exams?	characteristics on accessing work	
	Rebecca Barnes, Erren	placement opportunities	
	Cardoza, Janet Cronshaw, Polly Gravells, Will Hentley,	Andrew Mizumori Hirst and Beth Medley	
	Rebbekah Menday and Kris	University of York	
	Vallance	omversity of York	
	University of Sheffield		
11:10 - 11:30	Break for coffee		
11.20 12.20		MBA Lounge	
11:30 - 12:30	Poster/Networking Session Med School Clinical Suite		
	Lunch		
12:30 - 13:15	MBA Lounge		
13:15 - 14:15	Workshop	Workshop	Workshop
	Med School	Med School	Med School
	Equality and inequality in	Extending Reality for STEM	Interactive Learning for
	science; a workshop	Education: Embedding and	Emergency Shelters and
	encouraging decolonial	sustaining the use of XR and	Temporary
	thinking for biomedical	simulation in everyday teaching	Settlement Planning: A Hands-On
	sciences educators	Trevor Collins, Daniel Mitelpunkt	Approach Using 3D Models
	Lara Lalemi, Bronwen Burton	and James Smith	and LEGO
	and Alice Robson	The Open University and Imperial	Komal Raj Aryal and Yi-Chung Liu
	University of Bristol	College London	Aston University

Time to move between rooms			
	Student Support G11 Chair: Claire Stocker	Equality, Diversity and Inclusion Susan Cadbury Chair: Poonam Patil	Employability Adrian Cadbury Chair: Sue Pawley
14:25 - 14:45	Statistics Anxiety in Dissertation Students: A Hidden Curriculum Challenge Heather Callaghan Oxford Brookes University	Decolonising the Biomedical Science Curriculum: Challenges, Reflections, and Opportunities for Transformation Dylan Jones Bangor University	Student Startups: A Problem- Based Learning Strategy to Launch Career-Ready Scientists David Palomas and Buse Sonmez University College London
14:45 - 15:05	Matching Guru: Finding Suitable Mentor/Mentee Pairings for Peer Mentoring Schemes Polina Bovykina and Shun Ha Sylvia Wong Aston University	Stories of how Students use Resources and Strategies to Overcome their Academic Struggles Erin Brady University of Bristol	Lessons Learned in Designing a Flexible and Applied Degree Apprenticeship Curriculum Ria Symonds University of Nottingham
15:05 - 15:25	Progression from remote learning to postgraduate research: what are the barriers? Alice Fraser-McDonald, Sally Jordan, David Sharp and Teresa Sides The Open University	Increasing STEM subject, study and job interest in 14-15-year-olds via an International Women's Day event Mel Lacey, Rachel Schwartz- Narbonne, Lauren Thompson and Yasmin Faraza Sheffield Hallam University	Bridging Academia and Industry: A Foundation Year Research Collaboration Emma Gaunt and Sarah Rayment Nottingham Trent University
15:25 - 15:55	Break for coffee Vote for prizes MBA Lounge		
15:55 - 16:25	Final plenary Professor Suzanne Fergus, University of Hertfordshire G11 Chair: Neil Williams		
16:25 - 16:55	Prize presentation (Joanne Gough) Invitation to publish in New Directions (Sarah Gretton) Horizons in STEM network update (Neil Williams) Horizons in STEM 2026 announcement – (Rebecca Thomas) G11		









