

Main Talks - AM

Sustainable Materials, Advanced Manufacturing & Circular Technologies				Mathematics, Physics & Fundamental Sciences 1			Solutions and technologies for human health		
11:30 - 12:30	Room: FDC.G.06	Role	Talk Title	Room: FDC.1.17	Role	Talk Title	Room: FDC.2.14	Role	Talk Title
10 mins each	Chair: TBC			Chair: Jonte Hance			Chair: TBC		
	Speakers:			Speakers:			Speakers:		
Slot 1	Tom Bradley	Director, Decern	Life cycle analysis	Sam Edmunds	PGR	Utilising the quantum Zeno and anti-Zeno effect as a resource for quantum thermal devices	Joao Victor De Souza Cunha, RxCelerate	Head of Modelling	
Slot 2	Lukman Abu	PGR	Integration of Acoustic Emission and Dynamometer Systems for Tool Condition Monitoring in Micro-Machining Brittle Materials	Daniel Hill	PGR	LLAMA: Does supermassive black hole feedback affect nuclear gas structure?	Sandra Almeida	PGR	Evaluating Immersive and Virtual Reality Technologies to Support Veterinary Workforce Mental Wellbeing: An Applied Research Pilot
Slot 3	Ijudigal A. Birdling	PGR	Nickel-impregnated hydroxyapatite derived from biogenic waste for enhanced CO ₂ mineralization	Henry Harper-Gardner	PGR	Finite Temperature Dynamics and Performance of Ultracold Atomic BEC Engines	Merve Ozdas	PGR	Closed-Loop Control with Phantom Illusion Sensation
Slot 4	John Sanderson	PGR	Synthesis of non-isocyanate polyurethanes for water responsive actuators	Viktorija Bezganovic	PGR	SIC-POVM Tomography of Quantum Systems	Haowei Xu	PGR	AI as an Agent and Collaborative Space: Exploring the role of Generative AI in Small Group Synchronous and Asynchronous Collaborative Dynamics
Slot 5	Yaxuan Yi	PGR	Enhancing Recyclability and Reducing Carbon Emissions in Timber Structures through Design-for-Deconstruction: A Parametric Study on Material Degradation	Yunfei Weng	PGR	Adaptive Exact Simulation for Diffusion Bridges: Efficient and More General			
Slot 6	Neeraj Kumar	RA	Sustainable and Flexible Energy Storage for Next-Generation Wearables						