2026 CoSeC Conference Programme

Wednesday 02 December 2026 | 09:50–17:30

Exchange Rooms 8-10 | Manchester Central Convention Complex, M2 3GX

Time	Session	Speaker	Affiliation
09:50-10:00	Introduction	Stephen Longshaw - CoSeC Director	UKRI STFC
10:00-10:20	In Place and in One Sweep: Reducing Data Movement in High-Order Finite Element Codes	Diego Renner	Imperial College London
10:20-10:40	Lazy Quantum Walks with Native Multiqubit Gates	Steph Foulds	University of Strathclyde / CCP-QC
10:40-11:00	Towards GPU Jet Noise Simulation: Profiling and Optimising	Gokul Menon	University of Birmingham
11:00-11:30	**Coffee**		
11:30-11:50	Safe Digital Twins for the Built Environment (SafeDT): From Cross-Sector Risk Mapping to a Research and Policy Roadmap	Tianyu Xiang on behalf of Alejandro Jiménez Rios	University of Bath / CCC-ParaSolS
11:50-12:10	Mind the Gap: From FAIR Policy to Everyday Research Practice	Xenia Perez Sitja	ELIXIR-UK (Earlham Institute)
12:10-12:30	Towards Reproducible Data Analysis in Lattice Field Theory	Ed Bennett	Swansea University / CCP TEPP
12:30-12:50	Cataloguing Research Outputs for CoSeC Supported Communities	Gemma Poulter	UKRI STFC - CoSeC
12:50-13:40	**Lunch**		
13:40-14:00	TRACE-DT: Towards Trustworthy, Real-Time and Agentic Digital Twins for Infrastructure	Basuraj Bhowmik	University of Strathclyde / 2026 CoSeC Fellow
14:00-14:20	Goldilocks: Towards Smarter and Greener Materials Simulations	Junwen Yin	UKRI STFC / CCP5 & CCP9
14:20-14:40	Modelling Sustainable Energy: From Atomic Chemistry to Fluids	Ruitian He	University of Oxford / UKCOMES / 2026 CoSeC Fellow
14:40-14:50	The Beam Hardening Predictive Index: A Pre-Acquisition Metric for X-ray CT, Built on Community Simulation and Reconstruction Infrastructure	Sunday A Nwokolo	Bangor University /CCPi
14:50-15:20	2026 CoSeC Fellows Hamid Nasiri - University of Huddersfield Basuraj Bhowmik - University of Strathclyde Ruitian He - University of Oxford Kaan Olgu - Imperial College London Suhaib Ardah - Imperial College London Shashwat Sharma - University of Birmingham Zhaoxin Ren - Swansea University Larom Segev - University of Cambridge		
15:20-15:40	**Coffee** **Best Poster Voting Closes**		
15:40-16:00	Engineering ML Studio: From No-Code Exploration to Python for Engineering Machine Learning	Wei Wang	UKRI STFC / CCP-NTH
16:00-16:20	Advancing Safe Use of Deep Learning Reconstruction in Clinical MRI Using Open-Source	Emily RedPath	St George's University Hospitals NHS Foundation Trust / CCP SyneRBI
16:20-16:40	SMART-DRI: Towards Sustainable Digital Research Infrastructure through Energy and Carbon Accounting, Green Scheduling and Flexibility Services	Sudha Ahuja	Queen Mary University London
16:40-17:00	Sampling in Language Model Forecasting with probLM-solver	Clio Johnson	Lancaster University
17:00-17:30	Best Poster Announcement, Wrap-Up and Summary	Martin Turner (Chair of CoSeC Conference Organising Committee)	The University of Manchester / CCPi
17:30-20:00	**Social Networking Event** - The Gas Works Brew Bar, 5 Jack Rosenthal St, Manchester M15 4RA (Open to all registered CIUK attendees and exhibitors - CIUK lanyard and badge required for entry).		