Computing Insight UK 2025 "Computing Unites"





CIUK DAY ZERO - Wednesday 3 December 2025

TIME	PRE-CIUK ACTIVITIES These activit	ies v	vill take place in the CIUK Breakout Roo	m and the meeting ro	ooms upstairs	
From 08:00	CIUK 2025 EXHIBITION SET-UP (Exchange Hall)					
09:30 - 10:00	Registration Open (Refreshments Available)					
	Introduction - Stephen Longshaw (Director, CoSeC)					
10:00 - 10:30	Exploiting Physics for Efficient Computation - Sampreet Kalita (University of Strathclyde)		Consecutional Science Centre for Research Communities Annual Conference 2025			
	Interpreting Neural Networks: Physical Insight from Supervised Committor Prediction - Hubert Naguszewski (University of Warwick)				
10:30 - 11:00	CCC-ParaSolS and the cross-cutting challenges in particulate solids simulations - Kevin Hanley (University of Edinburgh)					
11:00 - 11:30	Coffee Break		Wednesday 3 December @ CIUK 2025 09:30 - 17:30			
11:30 - 12:00	CCP-DCM Finite Element simulation of PDEs on GPU - Chris Richards (University of Cambridge)	on	(CIUK Breakout Room) Exchange Rooms 8 - 10 Upstairs at Manchester Central			
	Porting Microsoft Aurora to Dawn - Rosie Wood (The Alan Turing Institute)		Registration from 09:30			
12:00 - 12:30	High-Order Operator Splitting on Quantum Computers - Peter Brear (University of Manchester)	ey	www.scd.stfc.ac.uk/CoSeC			
12:30 - 13:00	Climate Impact: Building a Sustainable Digital Future - Edoardo Paso (UKRI-STFC)	а				
	Announce posters and theme structure			_		
13:00 - 13:30	Lunch Break					
13:30 - 14:00	CCP-volumeEM:Making modern computational technologies accession for volume electron microscopy - Martin Jones (Francis Crick)	ole O	HPC-SIG / SysAdmin Technical Meetup rganiser: Simon Atack (Birmingham University	()		
14:00 - 14:30	RO-Crate: Capturing FAIR research outputs for reproducibility acros domains - Stian Soiland-Reyes (University of Manchester)	is	13:00 - 16:00 (CIUK Breakout Room)	LUGUK		
	Automating Metadata Capture for FAIR Data Pipelines - Laura Crawford (The Rosalind Franklin Institute)		Exchange Room 1 Upstairs at Manchester Central	Lustre User		
14:30 - 15:00				Group 2025		
15:00 - 15:30	The 2025 CoSeC Fellows			Midland Hotel		
	Coffee Break			www.lustrefilesystem.c om		
15:30 - 16:00	Towards Exascale First-Principles Materials Modelling with CASTEP- Phil Hasnip (University of York)	-				
16:00 - 16:30	ExaGRyPE: Numerical Relativity Solvers Based upon the Hyperbolic PDEs Solver Engine ExaHyPE - Han Zhang (Durham University)		DRI Cybersecurity			
	Modelling sub-grid turbulence in simulations of neutron stars - Migu Miravet-Tenes (University of Southampton)	el	Organiser: David Crooks (UKRI-STFC)			
16:30 - 17:00	Development of CHAPSim2 for Modelling Magnetohydrodynamic Turbulence - Alex Old (University of Sheffield)		16:00 - 17:30 (CIUK Breakout Room)			
17:00 - 17:30	OPS-HLS: Automated Code-Generation for FPGA-Accelerated Stenc Solvers - Beniel Thileepan (University of Warwick)		Exchange Room 1 Upstairs at Manchester Central			
	Wrap up and Summary - Martin Turner (Conference Chair)	旦				
17:30 - late	CIUK 2025 Day Zero 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)					
Until 20:00	CIUK 2025 EXHIBITION SET-UP (Exchange Hall)					

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Main Programme Session Themes

Session 1: Sustainable Energy Efficient Computing
Chair 09:30-11:00 - Harry Swift - UKRI- STFC
Chair 11:30-13:00 - Stefano Rolfo - UKRI- STFC

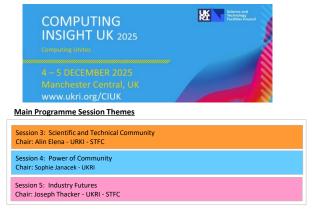
Session 2: UKRI Digital Research Infrastructure
Chair: Richard Gunn - UKRI - DRI



CIUK DAY ONE - Thursday 4 December 2025

TIME	MAIN PROGRAMME	BREAKOUT SESSIONS	CIUK CLUSTER CHALLENGE			
From 08:30	REGISTRATION OPEN (Exchange Foyer) CIUK 2025 EXHIBITION OPEN (Exchange Hall)					
09:15 - 09:30	Welcome and Introduction Peter Oliver (Director, Scientific Computing, STFC)					
09:30 - 10:00	Paul Walker (Durham University / Dirac) ICHS - the Immersion Cooling and Heat Storage for HPC project	Understanding the dRTP Landscape Organiser: Xu Guo (EPCC)				
10:00 - 10:30	Crispen Keable (Eviden) Building JUPITER – lessons learnt on exascale deployments	09:30 - 11:00 (CIUK Breakout Room)	COMPUTING INSIGHT UK 2025 Company Union 4 - 5 DECEMBER 2025 Manchester Central, UK www.ukfi.org/Cluk			
10:30 - 11:00	Jack Coker (Imperial College London) Carbon: A Lightweight Tool for Estimating Emissions of HPC Jobs	Exchange Rooms 8 - 10 Upstairs at Manchester Central				
11:00 - 11:30	REFRESHI	CIUK 2025 Student Cluster Challenge				
11:30 - 12:00	Raphael Brochard (EAR) EAR: More Performance per Watts in GPU AI clusters	FAIRifying the dRTP Training Ecosystem Organiser: Weroniker Filinger (EPCC)	(Exchange Hall)			
12:00 - 12:30	Sylvie Ramos (University College London) Building Unified AI services; A Cloud - Native AI Platform for Research at UCL	11:30 - 13:00 (CIUK Breakout Room)				
12:30 - 13:00	Alex Putt (BIOS IT) Cardiff University and BIOS IT Falcon Cluster Deployment	Exchange Rooms 8 - 10 Upstairs at Manchester Central				
13:00 - 14:00	LUNCH					
14:00 - 14:30	Richard Gunn (UKRI DRI) Developing a coherent, state-of-the-art and sustainable Digital Research Infrastructure (DRI)	Public Engagement activities you could deliver at your institution, and knowledge sharing and networking session!	COMPUTING INSIGHT UK 2025			
14:30 - 15:00	Tom McGivan (DSIT) Delivering the UK's Compute Roadmap and Latest Research Call	Organiser: Will Furnell (UKRI-STFC)	4 - 5 DECEMBER 2025 Manchester Central, UK			
15:00 - 15:30	Followed Q&A discussion	(CIUK Breakout Room) Exchange Rooms 8 - 10 Upstairs at Manchester Central	CIUK 2025 Student Cluster Challenge			
15:30 - 16:15	REFRESH	(Exchange Hall) alcesflight				
16:15 - 17:00	Martyn Guest (C The Performance of GPU-enabled Mole					
17:00 - 18:00	CIUK 2025 Keynote Presentation Dan Rigden (University of Liverpool) The impact of AlphaFold on experimental and computational biology research (and researchers).					
18:30 - 23:00	CIUK 2025 Networking Event - Albert Hall, Peter Street, M2 5QR (CIUK 2025 lanyard and badge required for entry)					

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CIUK DAY TWO - Friday 5 December 2025

REGISTRATION OPEN (Exchange Foyer) CUIX 2025 EXHIBITION OPEN (Exchange Hall) Davon Nucleirone and Deninic Store Management with the Ubantal Octamed Place Management with the Ubantal Community and Gen Source Software Notest Nagasewaki (University of Warwick) 1000 - 1030 Definiting computational efficiency of flat-shotgram Monte Carlo sampling for high-entropy only to Management with the Ubantal Community and Gen Source Software Notest Nagasewaki (University of Warwick) Definiting computational efficiency of flat-shotgram Monte Carlo sampling for high-entropy only to Management with the Ubantal Qualification of the Carlo Scientific Computing A performant vehicle for traversing the Alf Socient University REFRESHMENTS REFRESHMENTS REFRESHMENTS CUIX 2025 Student Cluster Challenge (Exchange Hall) 1130 - 1200 A year in the life of responsing isseming and liquid cooling CARL Noils Bream, COMBLE claser San, Orantino, University a filling process of the NetworkPlus Programme (Sophie Janaces Luri) CARL Noils Bream, COMBLE claser San, Orantino, NetRitti Niversity a filling process of the NetworkPlus Programme (Sophie Janaces Luri) 1230 - 1300 Overview of the NetworkPlus Programme (Sophie Janaces Luri) CARL Noils Bream, COMBLE claser San, Orantino, NetRitti Niversity a filling process of the NetworkPlus Programme (Sophie Janaces Luri) LUNCH LUNCH 1415 CUIX 2025 Exhibition Closes From ExCALIBUR to DRI, linking the UK's computer programmes Organiser: Phil Hashing (University of York) and Nick Brown (EPCC) 1430 - 15:00 Chris Derson (Sas Technologies) Monaka - Pujitu's neet generation Arm Based CPU Lamar Moore (OCQT Ecch) Lamar Moor	TIME	MAIN PROGRAMME	BREAKOUT SESSIONS	CIUK CLUSTER CHALLENGE		
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1000 - 1030 Optiming computation efficacy of the harbogram Monte Carlo sampling for high-entropy alloy thermodynamics Upstairs at Manchester Central	09:30 - 10:00	Ubuntu) Charmed HPC; Simplyfing Cluster Management with the	PERFORMANCE COMPUTING 08:30 - 10:30			
1030 - 11:00 JAX of Scientific Congouing - A performant vehicle for traversing the Al / Science Universe	10:00 - 10:30	Optimising computational efficiency of flat-histogram Monte Carlo	Exchange Rooms 8 - 10	COMPUTING		
REFRESHMENTS CIUK 2025 Student Cluster Challenge (Exchange Hall) A year in the life of research computing engagement at Imperial College London; Learning, listening and liquid cooling Overview of the NetworkPlus Programme (Sophie Janacek-UKR) CAME: Nick Brown, CSDSR: Louse Saul, CIAMETED : Weronika Filinger DisCoultEx: Jounthan Cooper, Minds: Hajaid Farkas, NetDRIVE: Alex Owen, NYCSPUs: Lous Hays, SCALE-UP: Michael Bearpark Panel Discouster Owen, NYCSPUs: Lous Hays, SCALE-UP: Michael Bearpark Panel Discouster Central LUNCH 14:15 CIUK 2025 Exhibition Closes From ExCALIBUR to DRI, linking the UK's compute programmes Organiser: Phil Haship (University of York) and Nick Brown (EPCC) 14:30 - 15:00 Chris Derson (Fsas Technologies) Monaka - Fujitsul's next generation Arm Based CPU Lamar Moore (OCQ Tech) Delivering Fault-Tolerant Quantum Compute-as-a-Service.	10:30 - 11:00	JAX for Scientific Computing - A performant vehicle for		Computing Orders 2025 A - 5 DECEMBER 2025 Manchester Central, UK		
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URRI) 12:30 - 13:00 CAKE: Nick Brown, CaSDaR: Louise Saul, CHARTED : Weronika Filinger DisCounSE: Jonathan Cooper, MinDS: Hajnal Farkas, NetDRIVE: Alex Owen, NFCSPlus: Jon Hays, SCALE-UP: Michael Bearpark Panel Discussion LUNCH 14:15 LUNCH 14:15 CIUK 2025 Exhibition Closes Awards Presentation The CIUK 2025 Student Cluster Challenge and CIUK 2025 Poster Competition CIUK 2025 Poster Competition The Jacky Pailas Memorial Presentation Flavano Della Pia (University of Cambridge) Towards modelling molecular crystals with the accuracy of diffusor Monte Carlo. 15:00 - 15:30 Chris Derson (Fsas Technologies) Monaka - Fujitsu's next generation Arm Based CPU Lamar Moore (OCQ Tech) Delivering Fault-Tolerant Quantum Compute-as-a-Service.	11:30 - 12:00	A year in the life of research computing engagement at	•			
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CHANGE OF CASE OF CONTRACT	15:30 - 16:00	· · · · · · · · · · · · · · · · · · ·	upstairs at Manchester Central			
CIUK 2025 CLOSES - See you in 2026!!!	16:00	CIUK 2025 CLOSES - See you in 2026!!!				