

Computing Insight UK 2024 "Catalysing Research"



CIUK DAY ZERO - Wednesday 4 December 2024

TIME	PRE-CIUK ACTIVITIES These activities will take place in the CIUK Breakout Room and the meeting rooms upstairs															
From 08:00	CIUK 2024 EXHIBITION SET-UP (Exchange Hall)															
09:30 - 10:00																
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17:30 - 20:00			CIUK 2024 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 required for entry)													
Until 20:00			CIUK 2024 EXHIBITION SET-UP (Exchange Hall)													



**Computational Science Centre
for Research Communities**

Annual Conference 2024
Wednesday 4 December @ CIUK 2024

10:00 - 17:00
(CIUK Breakout Room)
Registration from 09:30
www.scd.stfc.ac.uk/CoSeC



**Lustre User
Group 2024**

Exchange
Rooms 9 and
10
upstairs at
Manchester
Central

Technical/SysAdmin Meetup
13:00 - 16:00
(Exchange Room 1 upstairs
at Manchester Central)

**STEP-UP - developing HPC
technical professionals**
16:00 - 17:00
(Exchange Room 1 upstairs
at Manchester Central)



**CIUK 2024 Student
Cluster Challenge**
(Exchange Hall)

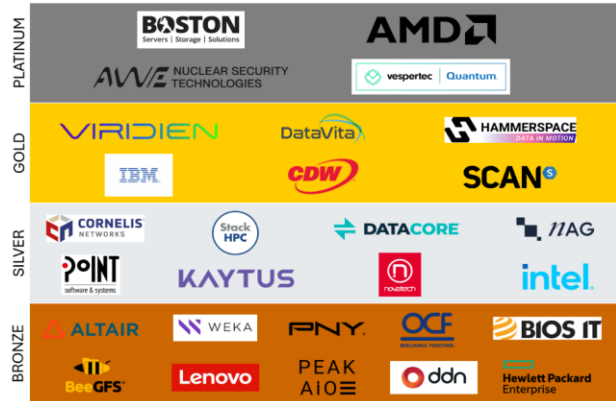


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Main Programme Session Themes

	Session 1: Sustainability Chair: Joseph Thacker (UKRI-STFC)
	Session 2: AI Focus
	Session 3: UKRI DRI Update



CIUK DAY ONE - Thursday 5 December 2024

TIME	MAIN PROGRAMME	BREAKOUT SESSIONS	CIUK CLUSTER CHALLENGE
From 08:30	REGISTRATION OPEN (Exchange Foyer) CIUK 2024 EXHIBITION OPEN (Exchange Hall)		
09:15 - 09:30	<i>Welcome and Introduction</i> Tom Griffin (Director, Scientific Computing, STFC)		
09:30 - 10:00	Carter Quinn (University College London) <i>Creating a Staffing Pipeline for the Research Infrastructure Profession with Apprenticeships</i>	Portable benchmarking and profiling using ReFrame 9:30 - 13:00 (CIUK Breakout Room)	 CIUK 2024 Student Cluster Challenge (Exchange Hall) 
10:00 - 10:30	Sadie Bartholomew (University of Reading/NCAS) <i>Reducing the impact of energy consumption from computing with CATS, The Climate Aware Task Scheduler</i>		
10:30 - 11:00	Jessica Huntley (UKRI-STFC) <i>Tracking the Carbon Cost of Optimization Algorithms</i>		
11:00 - 11:30	REFRESHMENTS		
11:30 - 12:00	Vassil Alexandrov and Adriano Agnello (STFC-Hartree Centre) <i>Harnessing AI to Address Grand Challenges in Scientific Innovation</i>		
12:00 - 12:30	Noel O'Connor (Red Hat) <i>Partnering to take LLM to the next level</i>		
12:30 - 13:00	Simon McIntosh-Smith, Priya Sharma and Chrisopher Edsall <i>The National AI Research Resource (AIRR) – The journey to launch</i>		
13:00 - 14:00	LUNCH		
14:00 - 14:30	Richard Gunn (UKRI DRI)	Cybersecurity and Federation for National DRI, AI and HPC Resources 14:00 - 16:00 (CIUK Breakout Room)	 CIUK 2024 Student Cluster Challenge (Exchange Hall) 
14:30 - 15:00	<i>UKRI DRI Update</i>		
15:00 - 15:30	Followed by a panel Q&A discussion		
15:30 - 16:15	REFRESHMENTS		
16:15 - 17:00	Martyn Guest (ARCCA, Cardiff University) <i>Community Code Performance on Multi-core Processors. An Analysis of Computational Chemistry and Ocean Modelling Applications.</i>		
17:00 - 18:00	CIUK 2024 Keynote Presentation Luigi Del Debbio, The University of Edinburgh - Visions of Computing		
18:30 - 23:00	CIUK 2024 Networking Event - Peaky Blinders Bar, Peter Street, M2 5QR <i>(CIUK 2024 lanyard and badge required for entry)</i>		

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Main Programme Session Themes

	Session 4: Technology Trends Chair: Omar Ahmed Mahfoze (UKRI-STFC)
	Session 5: Collaboration
	Session 6: Test Bed Panel Chair: Stephen Longshaw



CIUK DAY TWO - Friday 6 December 2024

TIME	MAIN PROGRAMME	BREAKOUT SESSIONS	CIUK CLUSTER CHALLENGE
From 08:30	REGISTRATION OPEN (Exchange Foyer) CIUK 2024 EXHIBITION OPEN (Exchange Hall)	 Women in HPC Breakfast 08:30 - 10:30 (CIUK Breakout Room)	 COMPUTING INSIGHT UK 2024 Catalysing Research 5 - 6 DECEMBER 2024 Manchester Central, UK www.ukri.org/CIUK The CIUK 2024 Cluster Challenge
09:30 - 10:00	Mayank Kumar (UKRI-STFC) <i>Integration of SYCL with MPI in Multi-scale Universal Interface (MUI) library for Multi-Physics Coupling at Exascale</i>		
10:00 - 10:30	Gregory Tourte (University of Oxford) <i>Use of WEKA FS for fast ephemeral storage powering academic HPC</i>	Storage Scale (GPF5) User Group / New Users Session 10:30 - 13:30 (CIUK Breakout Room)	 alcesflight
10:30 - 11:00	Oliver Brown (EPCC, University of Edinburgh) <i>The Scalability of Quantum Air Traffic Control</i>		
11:00 - 11:30	REFRESHMENTS	EXCALIBUR Hardware and enabling software: Exploring next generation technologies for HPC 11:00 - 13:00 (Exchange Room 1 upstairs at Manchester Central)	
11:30 - 12:00	Duncan McBain (Codeplay Software) <i>Portable SYCL code using oneMKL on AMD, Intel and Nvidia GPUs</i>		
12:00 - 12:30	Dimitrios Bellos (The Rosalind Franklin Institute) <i>Flowcron: Improving access to HPC via a Function-as-a-Service which utilizes a Globus Flow and a cron service</i>		
12:30 - 13:00	Dave Bond, Andy Herdman, Neil Gaspar (AWE National Security Technologies) <i>AWE - Centres of Excellence, an outline of academic engagement</i>		
13:00 - 14:15		LUNCH	
14:15 - 14:30	Awards Presentation The CIUK 2024 Student Cluster Challenge and CIUK 2024 Poster Competition	UKRI National Federated Compute Services NetworkPlus 14:00 - 15:00 (CIUK Breakout Room)	 alcesflight
14:30 - 15:00	The Jacky Pallas Memorial Presentation - Lisa Lampunio <i>Advanced Modelling and Simulation for the Analysis of Novel Radiation Detection Technology and Thermal Fatigue Phenomena within the Nuclear Energy Sector</i>		
15:00 - 15:30	Alastair Basden (DIRAC/Durham University) <i>The Durham HPC Hardware Laboratory</i> Nick Brown (EPCC, University of Edinburgh) <i>RISC-V: The most exciting hardware innovation of recent times</i>		
15:30 - 16:00	Tina Friedrich (University of Oxford) <i>A first look at JADE 2.5</i>		
16:00	CIUK 2024 CLOSES - See you in 2025!!!		