

# Computing Insight UK 2023 "Productive Supercomputing"

Thursday 7 and Friday 8 December 2023



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## CIUK DAY ZERO - Wednesday 6 December 2023

TIME	PRE-CIUK ACTIVITIES These activities will take place in the CIUK Breakout Room, the Gallery and the Meeting Rooms (upstairs)			
From 08:00	<b>CIUK 2023 EXHIBITION SET-UP (The Gallery)</b>			
09:30 - 10:00				
10:00 - 10:30	<p><b>CoSeC</b> Computational Science Centre for Research Communities</p> <p><b>Annual Conference 2023</b> Wednesday 6 December @ CIUK 2023</p> <p><b>10:00 - 17:00</b> (CIUK Breakout Room) Registration from 09:30 <a href="http://www.scd.stfc.ac.uk/CoSeC">www.scd.stfc.ac.uk/CoSeC</a></p>	 <b>Developer Meeting 2023</b>		
10:30 - 11:00		<p>Exchange Room 6 and 7 upstairs at Manchester Central</p> <p>Attendance By Invitation Only</p>		
11:00 - 11:30				
11:30 - 12:00				
12:00 - 12:30			 Using ReFrame for reproducible and portable performance benchmarking	
12:30 - 13:00				
13:00 - 13:30			<p>Exchange Room 4 and 5 upstairs at Manchester Central</p>	
13:30 - 14:00				
14:00 - 14:30		 <b>Lustre User Group 2023</b>	 Run the same code on CPUs, GPUs, and FPGAs with SYCL	 <b>CIUK 2023 Student Cluster Challenge (The Gallery)</b>   Architects of Change
14:30 - 15:00				
15:00 - 15:30				
15:30 - 16:00				
16:00 - 16:30				
16:30 - 17:00				
17:00 - 17:30				
17:30 - 20:00	<b>CIUK 2023 Day Zero Networking Event - The Gas Works Brew Bar, 5 Jack Rosenthal St, Manchester M15 4RA (Open to all registered CIUK attendees and exhibitors - wrist band required for entry)</b>			
Until 20:00	<b>CIUK 2023 EXHIBITION SET-UP (The Gallery)</b>			

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## Main Programme Session Themes

	Session 1: Making HPC More User Accessible
	Session 2: User Portals
	Session 3: UKRI DRI and DSIT Updates

## CIUK DAY ONE - Thursday 7 December 2023

TIME	MAIN PROGRAMME	BREAKOUT SESSIONS	CIUK CLUSTER CHALLENGE
From 08:30	<b>REGISTRATION OPEN (Charter Foyer) CIUK 2023 EXHIBITION OPEN (The Gallery)</b>		
09:15 - 09:30	<i>Welcome and Introduction</i> Tom Griffin (Director, Scientific Computing, STFC)		
09:30 - 10:00	<b>Dr Tom Deakin (University of Bristol)</b> <i>Performance Portability for Next-Generation Heterogeneous Systems</i>	 <b>Project Overview and Update</b> 09:30 - 12:30 (Breakout Room)	 <b>CIUK 2023 Student Cluster Challenge (The Gallery)</b>
10:00 - 10:30	<b>John Garbutt (StackHPC)</b> <i>UKSRC simplify HPC using Azimuth</i>		
10:30 - 11:00	<b>Dr Owain Kenway (University College London, Centre for Advanced Research Computing)</b> <i>Bridging the Professional Services/Academic gap</i>		
11:00 - 11:30	<b>REFRESHMENTS</b>		
11:30 - 12:00	<b>Matt Penn (King's College London)</b> <i>King's e-Research portal: making things easier, securely</i>	<b>Technical / SysAdmin Meetup</b> 12:30 - 13:30 (Breakout Room)	 Servers   Storage   Solutions
12:00 - 12:30	<b>Dimitrios Bellos (Rosalin Franklin Institute)</b> <i>Accelerating Structural Biology: From PC to HPC</i>		
12:30 - 13:00	<b>Maria Fando (STFC, CCP4)</b> <i>Delivering HPC Power for Structural Biologists with CCP4 Cloud</i>	<b>LUNCH</b>	
13:00 - 14:00			
14:00 - 14:30	<b>Richard Gunn (UKRI DRI)</b> <b>Speaker TBC (Department for Science, Innovation, and Technology)</b> <i>Update on the UKRI Digital Research Infrastructure and the Future of Compute Review</i>	<b>Storage Scale User Group (GPFS User Group / Spectrum Scale User Group) 14:00 - 16:00</b> (Breakout Room)	 <b>CIUK 2023 Student Cluster Challenge (The Gallery)</b>
14:30 - 15:00	Followed by a panel discussion and Q&A session		
15:00 - 15:30	<b>REFRESHMENTS</b>		
15:30 - 16:15			
16:15 - 17:00	<b>Martyn Guest (ARCCA, Cardiff University)</b> <i>Performance of Community Codes on Multi-Core Processors</i>		
17:00 - 18:00	<b>CIUK 2023 Keynote Presentation - Melyssa Fratkin (Industry Programs Director, Texas Advanced Computing Center, USA)</b> <i>Women in Advanced Computing: Leveling the Playing Field</i>		
18:30 - 23:00	<b>CIUK 2023 Networking Event - Revolucion de Cuba, South Central, 11 Peter Street, M2 5QR</b> <i>(CIUK 2023 lanyard and badge required for entry)</i>		

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## Main Programme Session Themes

	Session 4: Industry Use of HPC
	Session 5: Co-Design of Supercomputing Services and Systems
	Session 6: Supercomputing into the future

## CIUK DAY TWO - Friday 8 December 2023

TIME	MAIN PROGRAMME	BREAKOUT SESSIONS	CIUK CLUSTER CHALLENGE
From 08:30	<b>REGISTRATION OPEN (Charter Foyer)</b> <b>CIUK 2023 EXHIBITION OPEN (The Gallery)</b>	 <b>Women in HPC Breakfast</b> <b>08:30 - 10:30</b> <b>(CIUK Breakout Room)</b>	 <b>CIUK 2023 Student Cluster Challenge</b> <b>(The Gallery)</b> 
09:30 - 10:00	<b>Ubaid Ali Qadri (STFC Hartree Centre)</b> <i>Industrial Use of High-Performance Computing and Artificial Intelligence: A Hartree Perspective</i>		
10:00 - 10:30	<b>Ben Rixon and Neil Martin (The Manufacturing Technology Centre)</b> <i>Automated Deployment of Manufacturing Use-Cases through OpenStack HPC</i>		
10:30 - 11:00	<b>Dr Rosemary Francis (Altair)</b> <i>Presenting the biggest change to HPC in 20 years</i>		
11:00 - 11:30	<b>REFRESHMENTS</b>		
11:30 - 12:00	<b>Alastair Basden (DiRAC / Durham University)</b> <i>A foray into composable infrastructure for HPC</i>	<b>Examples, Challenges and Opportunities for Industrial use of High-Performance Computing and Scalable Artificial Intelligence</b> <b>11:30 - 13:30</b> <b>(CIUK Breakout Room)</b>	
12:00 - 12:30	<b>Dr Tim Bellerby (School of Environmental Sciences, University of Hull)</b> <i>The PM Programming Language : Developing Numerical Models on Distributed Systems</i>		
12:30 - 13:00	<b>Nick Brown (EPCC at the University of Edinburgh)</b> <i>Making HPC more accessible: Effective HPC programming via domain specific abstractions</i>		
13:00 - 14:15	<b>LUNCH</b>		
14:15 - 14:30	<b>Awards Presentation - The CIUK 2023 Student Cluster Challenge and CIUK 2023 Poster Competition</b>		
14:30 - 15:00	<b>The Jacky Pallas Memorial Presentation</b>		
15:00 - 15:30	<b>Mark Parsons (EPCC, University of Edinburgh)</b> <i>The UK's Exascale Supercomputer</i> <b>Dr Sadaf Alam (Bristol University)</b> <i>Isambard AI - a National AI Research Infrastructure</i>		
15:30 - 16:00	<b>Paul Calleja (Cambridge University)</b> <i>AIRR at Cambridge</i>		
16:00	<b>CIUK 2023 CLOSSES - See you in 2024!!!</b>		