Computing Insight UK 2021   *"Heterogeneous Computing"*

Thursday 9 and Friday 10 December 2021

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Main Programme Session Themes

🟧	Session 1: Why Heterogeneous Computing?
🟦	Session 2: Hardware Sub-Systems
🟪	Session 3: The ExCALIBUR Programme

COMPUTING INSIGHT UK 2021
9 - 10 DECEMBER 2021
Manchester Central, UK
www.stfc.ac.uk/ciuk

DAY 1 - Thursday 9 December 2021

TIME	MAIN PROGRAMME	BREAKOUT SESSIONS
From 08:30	**REGISTRATION OPEN (Main Foyer) EXHIBITION OPEN (Gallery)**	
09:15 - 09:30	*Welcome and Introduction* **Tom Griffin (Director, Scientific Computing, STFC)**	
09:30 - 10:00	**Steve Hindmarsh (The Francis Crick Insititute)** *Heterogeneous Computing at the Crick*	
10:00 - 10:30	**Phil Hasnip (University of York)** *Portable acceleration of materials modelling software: CASTEP, GPUs and OpenACC*	
10:30 - 11:00	**Igor Baratta (University of Cambridge)** *Heterogeneous Programming for Finite Element: insights from benchmarks*	
11:00 - 11:30	**REFRESHMENTS**	CoSeC Computational Science Centre for Research Communities **Annual Conference 2021** Thursday 9 December @ CIUK 2021
11:30 - 12:00	**Paul Calleja (University of Cambridge)** *Title TBC*	
12:00 - 12:30	**Alastair Basden (Durham University)** *The Durham Intelligent NIC Environment (DINE)*	
12:30 - 13:00	**Andrew Edmondson (University of Birmingham)** *Installing and curating software for heterogenous compute environments*	
13:00 - 14:00	**LUNCH**	
14:00 - 14:30	**Elizabeth Bent (UKRI)** **TBC (UKAEA)** **Nigel Wood (Met Office)** *An oveview of the ExCALIBUR Programme*	
14:30 - 15:00		
15:00 - 15:30	**ExCALIBUR Panel Discussion and Q&A Session**	
15:30 - 16:30	**REFRESHMENTS**	
16:30 - 17:30	*Application Performance on Multi-Core Processors:* *Performance Analysis of the AMD EPYC Rome Processors* **Martyn Guest (ARCCA, Cardiff University)**	
17:30 - 18:30	**Keynote Presentation - Simon McIntosh-Smith (Bristol University)** *Heterogeneous Computing: past, present and future*	
18:30 - 20:00	**CIUK 2021 Networking Event** Join us at Manchester Central for wine, beer and nibbles - all registered attendees are invited!	

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Main Programme Session Themes

	Session 4: Co-Design and Environment
	Session 5: The Skills Gap
	Session 6: Emerging Technologies

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DAY 2 - Friday 10 December 2021

TIME	MAIN PROGRAMME	BREAKOUT SESSIONS
From 08:30	REGISTRATION OPEN (Main Foyer) EXHIBITION OPEN (Gallery)	
09:30 - 10:00	**Mark Parsons (EPCC, University of Edinburgh)** *UK Exascale Project*	
10:00 - 10:30	**Jeff Hammond (NVIDIA)** *Post-CUDA Future of Heterogeneous Compute Programming*	Spectrum Scale User Group
10:30 - 11:00	**The Jacky Pallas Memorial Presentation**	
11:00 - 11:30	**REFRESHMENTS**	
11:30 - 12:00	**Richard Gunn (UKRI)** *The UK Skills Gap*	
12:00 - 12:30	*Plus 2 other presenters TBC*	
12:30 - 13:00	**Skills Gap Panel Discussion and Q&A Session**	
13:00 - 14:15	**LUNCH**	
14:15 - 14:30	**Award Presentation - The CIUK 2021 Student Cluster Challenge and Poster Competition**	
14:30 - 15:00	**Viv Kendon (University of Strathclyde)** *QEVEC: integrating quantum computing with HPC*	
15:00 - 15:30	**Nick Brown (EPCC, University of Edinburgh)** *FPGAs - TBC*	
15:30 - 16:00	**Gihan Mudalige (Warwick University)** *HPC, domain specific languages for multi-core/many-core architectures and performance portability*	
16:00	**CIUK 2021 CLOSES**	