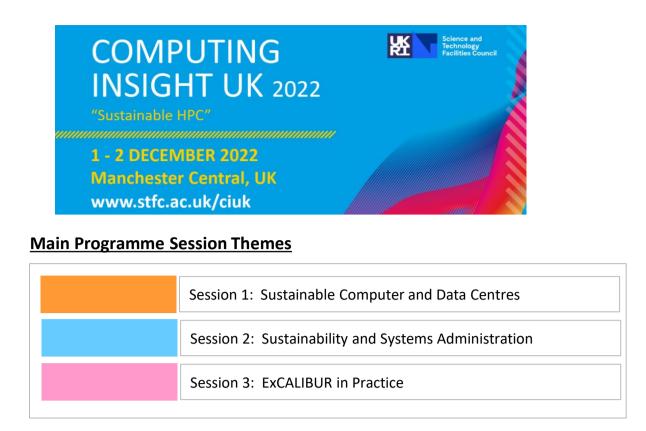
Computing Insight UK 2022 "Sustainable HPC"

Thursday 1 and Friday 2 December 2022





DAY 1 - Thursday 1 December 2022

TIME	MAIN PROGRAMME	BREAKOUT SESSIONS
From 08:30	REGISTRATION OPEN (Charter Foyer) EXHIBITION OPEN (Gallery)	
09:15 - 09:30	Welcome and Introduction Tom Griffin (Director, Scientific Computing, STFC)	
09:30 - 10:00	Dr Peter Oliver (Scientific Computing, STFC) Design considerations for an environmentally sustainable datacentre for STFC	
10:00 - 10:30	Pekka Lehtovuori (CSC - IT Center for Science Ltd) Reaching zero carbon footprint in HPC operations	
10:30 - 11:00	Thomas Eickermann (Jülich Supercomputing Centre) Towards more sustainable HPC at the Jülich Supercomputing Centre	
11:00 - 11:30	REFRESHMENTS	
11:30 - 12:00	Jacob Newman (University of East Anglia) Optimising HPC Workflows: Three Case Studies from a Research Software Engineer's Perspective	COSEC Computational Science Centre for Research Communities Annual Conference 2022
12:00 - 12:30	Gabryel Mason-Williams (Rosalind Franklin Institute) DisTRaC: Accelerating High-Performance Data Processing	
12:30 - 13:00	Simon Atack (University of Bristol) Creating A Cluster - Going it Alone	Thursday 1 December @ CIUK 2022 10:00-16:00
13:00 - 14:00	LUNCH	
14:00 - 14:30	Ed Threlfall (UKAEA) Project NEPTUNE - sustainable software for sustainable fusion energy	
14:30 - 15:00	Joseph Hickson, Lewis Sampson and Victoria Smart (Met Office) Preparing the Met Office for the next generation of supercomputers	
15:00 - 15:30	Ben Rogers (University of Manchester) and Phil Hasnip (University of York) PAX-HPC - Modelling particles at exascale: from atoms to galaxies	
15:30 - 16:15	REFRESHMENTS	
16:15 - 17:00	Martyn Guest (ARCCA, Cardiff University) Performance of Community Codes on Multi-core Processors. An Analysis of Computational Chemistry and Ocean Modelling Applications	
17:00 - 18:00	Keynote Presentation - Professor Michèle Weiland (EPCC, The University of Edinburgh) Net Zero HPC - noble dream or inevitable goal?	
18:30 - 23:00	CIUK 2022 Networking Event Revolucion de Cuba, 11 Peter St, Manchester M2 5QR (CIUK lanyard and badge required for entry).	

Computing Insight UK 2022 "Sustainable HPC"

Thursday 1 and Friday 2 December 2022





DAY 2 - Friday 2 December 2022

TIME	MAIN PROGRAMME	BREAKOUT SESSIONS
From 08:30	REGISTRATION OPEN (Charter Foyer) EXHIBITION OPEN (Gallery)	
09:30 - 10:00	UKRI Net Zero Digital Research Infrastructure Project	WOMEN IN HIGH
10:00 - 10:30	09:30 - 09:50 Project Overview (Martin Juckes) 09:50 - 10:00 HPC-JEEP (Alastair Basden and Andy Turner) 10:00 - 10:10 IRISCAST (Jonathan Hays)	08:30-10:30
10:30 - 11:00	 10:10 - 10:20 ENERGETIC (Deepan Bhowmik and Teymoor Ali) 10:20 - 10:30 CARBON-QUANDRI (Daniel Schien) 10:30 - 11:00 Panel Discussion (Wim Vanderbauwhede, Justin O'Byrne, Martin Juckes) 	
11:00 - 11:30	REFRESHMENTS	
11:30 - 12:00	Ilektra Christidi (Senior Research Software Developer, UCL Advanced Research Computing Centre) Coupling the Time-Warp algorithm with a Kinetic Monte Carlo framework for exact distributed simulations of heterogeneous catalysts	Spectrum Scale User Group
12:00 - 12:30	Elizabetta Boella (Lancaster University & Cockcroft Institute) ECsim: a massively parallel Particle-In-Cell code for plasma physics with OpenACC support	10:30-12:30
12:30 - 13:00	The Jacky Pallas Memorial Presentation Dr Djenifer Kappel (Centre for Neuropsychiatric Genetics and Genomics - Cardiff University) The genomic basis for precision medicine in treatment-resistant schizophrenia	
13:00 - 14:15	LUNCH	
14:15 - 14:30	Award Presentation - The CIUK 2022 Student Cluster Challenge and Poster Competition	
14:30 - 15:00	Dr Rosemary Francis (Chief Scientist HPC, Altair) Ten Ways in Which Altair is Saving the Planet with HPC	UK Research and Innovation ENERGETIC: A workshop regarding Energy
15:00 - 15:30	Dr Crispin Keable (Senior HPC Architect, Global HPC Strategic Sales, Atos) Sustainability issues as we move towards exascale class HPC architectures	Benchmarking on Heterogeneous Systems
15:30 - 16:00	Laura Foster (techUK) Why is HPC integral to becoming a "science and technology superpower?"	
16:00	CIUK 2022 CLOSES	