

Oak Ridge Leadership Computing Facility (OLCF) Annual User Meeting September 10 – September 11, 2024

Event contacts			
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Day 1			
Time	Event	Presenter/Lead	Location
8:00 a.m.	Check-in/Registration <i>Breakfast Served</i>		ORNL Visitors Center Bldg. 5200
8:30 a.m.	ORNL Welcome & Introduction <i>Working Breakfast</i>	Verónica Melesse Vergara Arjun Shankar	JICS Auditorium Bldg. 5100, 128
8:45 a.m.	OLCF at the Frontier of Discovery	Arjun Shankar	JICS Auditorium Bldg. 5100, 128
9:10 a.m.	OLCF User Group 2025 Candidate Nominations	Reuben Budiardja	JICS Auditorium Bldg. 5100, 128
9:30 a.m.	MyOLCF Updates	Aaron Barlow	JICS Auditorium Bldg. 5100, 128
9:45 a.m.	Orion Update	Jesse Hanley	JICS Auditorium Bldg. 5100, 128
10:00 a.m.	Kronos Update	Brenna Miller	JICS Auditorium Bldg. 5100, 128
10:15 a.m.	<i>Break</i>		JICS Lobby Bldg. 5100
10:45 a.m.	Special Topic: A Comprehensive Digital Twin of the Frontier Supercomputer	Wes Brewer	JICS Auditorium Bldg. 5100, 128
11:15 a.m.	Hands-on Training: Performance Analysis of GPU-Accelerated Applications on Frontier with HPCToolkit	Jonathan Anderson, Rice University	JICS Auditorium Bldg. 5100, 128
	OLCF Office Hours	Togo Odbadrakh	JICS Lobby Bldg. 5100

12:15 p.m.	Table Topic Discussions & Working Lunch • <i>Frontier Programming Environment & Software</i> – Nick Hagerty • <i>HPC Compute Containers</i> – Subil Abraham & Elijah MacCarthy • <i>Kronos Introduction & HPSS Decommission</i> – Brenna Miller & Jake Wynne • <i>Large-scale AI</i> – Michael Sandoval & Sajal Dash • <i>MyOLCF</i> – Kita Cranfill & Alan Longcoy • <i>OLCF Office Hours</i> – Togo Odbadrakh • <i>OLCF Training</i> – Suzanne Parete-Koon • <i>Hands-on Demo: A Digital Twin Framework for Liquid-Cooled Supercomputers as Demonstrated at Exascale</i> – Sedrick Bouknight & Matthias Maiterth	Chris Fuson	JICS Lobby Bldg. 5100
1:15 p.m.	Allocation Programs	Antigoni Georgiadou	JICS Auditorium Bldg. 5100, 128
1:30 p.m.	Training Updates	Suzanne Parete-Koon	JICS Auditorium Bldg. 5100, 128
1:45 p.m.	OLCF User Survey	Josh Cunningham	JICS Auditorium Bldg. 5100, 128
2:00 p.m.	Frontier Update	Verónica Melesse Vergara	JICS Auditorium Bldg. 5100, 128
2:30 p.m.	<i>Break</i>		JICS Lobby Bldg. 5100
2:45 p.m.	Invited User Talk: Solving the Multiscale Multiphysics Puzzles in ITER Edge Plasma	C.S. Chang , Princeton Plasma Physics Laboratory	JICS Auditorium Bldg. 5100, 128

3:15 p.m.	Industry User Talk: Validating Multiphysics Models for Simulating Aviation Combustors	Baris Sen , Fellow, Combustor and Turbine Heat Transfer Modeling, Pratt & Whitney	JICS Auditorium Bldg. 5100, 128
3:45 p.m.	OLCF Group Photo & Summit Headshots OLCF Facility Tour		OLCF Datacenter Bldg. 5600
5:00 p.m.	OLCF User Meeting Poster Session & EVEREST Showcase Reception <i>Reception in Lieu of Dinner</i>		Court of Flags Bldg. 5700
6:30 p.m.	Poster Session Ends <i>Depart ORNL</i>		

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Day 2			
8:00 a.m.	Check-in <i>Breakfast Served</i>		JICS Auditorium Bldg. 5100, 128
8:30 a.m.	Day 1 Recap & Day 2 Overview <i>Working Breakfast</i>	Verónica Melesse Vergara	JICS Auditorium Bldg. 5100, 128
8:40 a.m.	Quantum Computing User Program (QCUP)	Ryan Landfield	JICS Auditorium Bldg. 5100, 128
9:00 a.m.	Quantum & HPC Integration	Tom Beck	JICS Auditorium Bldg. 5100, 128
9:30 a.m.	<i>Break</i>		Bldg. 5100
10:00 a.m.	OLCF Communications Update & User Resources	Katie Bethea	JICS Auditorium Bldg. 5100, 128
10:15 a.m.	Tools: Performance and Debuggers	Phil Roth	JICS Auditorium Bldg. 5100, 128
10:30 a.m.	Hands-on Training: Containers Training	Subil Abraham	JICS Auditorium Bldg. 5100, 128
	OLCF Office Hours	Togo Odbadrakh	JICS Lobby Bldg. 5100
12:00 p.m.	Frontier Hackathon Outros <i>Working Lunch</i>	Suzanne Parete-Koon	JICS Auditorium Bldg. 5100, 128
1:45 p.m.	User Contributed Talk: Leveraging GNU Parallel for Optimal Utilization of HPC Resources on Frontier Supercomputer	Ketan Maheshwari	JICS Auditorium Bldg. 5100, 128
2:15 p.m.	User Contributed Talk: Accelerating OpenFOAM on Frontier GPUs for Fusion Multiphysics Simulations	Arpan Sircar	JICS Auditorium Bldg. 5100, 128
2:45 p.m.	<i>Break</i>		Bldg. 5100
3:15 p.m.	OLCF-6 Project Update	Matt Sieger	JICS Auditorium Bldg. 5100, 128
3:30 p.m.	OLCF User Group Elections	Reuben Budiardja	JICS Auditorium Bldg. 5100, 128
4:00 p.m.	Summit Send-Off Celebration	Bronson Messer	Bldg. 5100, Lobby
4:30 p.m.	Adjourn + Off-Site Social		The Greens 201 Tuskegee Dr, Oak Ridge, TN 37830