

April 9, 2024

Time	Session
9:00 am–9:30 am	Check-in and poster setup
9:30 am–10:30 am	AM Plenary Session (30 minutes each)
	<p>(IN-PERSON) Sultana Nahar, <i>The Ohio State University</i> The IRON Project for the study of the Sun: Computations using HPC of OSC</p> <p>(IN-PERSON) Hang Yi, <i>Wright State University</i> Developing a Benchmarked Pathway for Computational Hemodynamic Predictions in Intracranial Aneurysms</p>
10:30 am–11:30 am	AM Flash Talks (10 minutes each with 5-minute Q & A)
	<p>(VIRTUAL) Tianyu Lu, <i>The Ohio State University</i> TIR-Learner v3: New generation TE annotation program for identifying TIRs</p> <p>(VIRTUAL) Sai Kumar Reddy Putha, <i>Youngstown State University</i> Enhancing Scalability and Efficiency in Distributed GNN Training: Analyzing GPU Allocation and Batch Size Variations</p> <p>(IN-PERSON) Anju Gupta, <i>The University of Toledo</i> A survey of statistical and machine learning models for membrane forecast: an experimentally informed approach</p> <p>(IN-PERSON) Maede Najian, <i>Cleveland State University</i> Integrated CFD-Microclimate Analysis for Enhanced Urban Building Energy Modeling</p>
	Lunch & OSC Cardinal Overview
	Poster Session (ALL IN-PERSON)
12:15 pm–1:15 pm	<p>Amonie Akens, <i>Central State University</i> PractiCenter AI Melody Generator</p> <p>Eric Fagerberg, <i>The Ohio State University</i> Improving side-chain dihedral potentials in protein force field with crystallographic data</p> <p>Anish Gupta, <i>Ohio Dominican University</i> Preliminary Calculations of the Chemical Mechanism of the Unusual Photochemical Rearrangement of Diaryl-2(3H)-furanones</p> <p>Olivia Maynard, <i>The Ohio State University</i> Planet-Planet Scattering: A Potential Explanation for Unusual A(Li) Values in Exoplanetary Hot Jupiter Systems</p>

Time	Session
12:15 pm–1:15 pm	Sultana Nahar , <i>The Ohio State University</i> OSC partnership in global research training based course on atomic astrophysics with computational workshops
	Indranil Nayak , <i>The Ohio State University</i> Accelerating Electromagnetic Simulations using On-the-Fly Dynamic Mode Decomposition
	Brady Phelps , <i>Ohio University</i> Securing ADS-B Messages with Quantum Key Distribution
	Meera Rajagopal, <i>The Ohio State University</i> Quantifying Transposable Element expressions within Zea mays
	Haitham Saleh , <i>The Ohio State University</i> Accuracy Analysis of Computational Orbital Trajectories in Particle-In-Cell Simulations for Kinetic Plasmas
	Meaghan Stafford , <i>Hiram College</i> Effects of Oxygen on Heliobacterial Photosynthesis
	Manikya Swathi Vallabhajosyula , <i>The Ohio State University</i> , Hey AI! can you allocate resources for me with cost, and time constraints?
	Zongqi Lu , <i>Rose-Hulman Institute of Technology</i> Explore the Electronic, Spectroscopic, Kinetic and Dynamic Properties of PhCN via Quantum Mechanical Calculations
1:15 pm–1:30 pm	Afternoon Break & Snacks
1:30 pm–2:15 pm	PM Flash Talks (10 minutes each with 5-minute Q & A)
	(IN-PERSON) Alexander Hoover , <i>Cleveland State University</i> Life in Moving Fluids: Computational Modeling of Swimming and Flying Organisms
	(VIRTUAL) Shawn Ryan , <i>Cleveland State University</i> Decoding Biological Complexity with Mathematical Modeling and HPC
	(VIRTUAL) Xiche Hu , <i>The University of Toledo</i> Molecular Basis for the High Infectivity of SARS-CoV-2 Omicron Variant–A Quantum Chemical Study
2:15 pm–3:15 pm	PM Plenary Session (30 minutes each)
	(IN-PERSON) Nimra Siddiqui , <i>Youngstown State University</i> Dr. Lego: AI-Powered Block Code Analysis Tool
	(VIRTUAL) Christine Morales , <i>University of Mount Union</i> Opening Portals: Lowering Barriers to Undergraduate Student Engagement through Computational Chemistry
3:15 pm	Closing Remarks