



PROGRAM MANAGER: Dr. Bryan Jacobs, MTO

DATE: Thursday, August 24, 2023	TIME: 12:30pm-3:30pm
ROOM NAME: 502 Cowlitz – 5 th Floor	

DESCRIPTION

This workshop will focus on the challenges and opportunities for a wide range of emerging computing paradigms drawing inspiration from physics principles, e.g., energy minimization. Special attention will be given to developing best practices for benchmarking these technologies and identifying the most promising near-term applications.

AGENDA

12:30pm-12:45pm	Welcome and Introduction Dr. Bryan Jacobs, Program Manager, DARPA
12:45pm-1:05pm	Computing with Physical Systems Peter McMahon, Assistant Professor, Cornell University
1:05pm-1:25pm	Computing at the Speed of Light Hitesh Ballani, Microsoft Research Project AIM
1:25pm-1:45pm	Thermodynamic AI and the Fluctuation Frontier Patrick Coles, CSO, Normal Computing
Afternoon Break: 1:45pm-2:15pm	
2:15pm-2:35pm	Practical Benchmarking Dr. Helmut Katzgraber, Global Practice Lead, Amazon Quantum Solutions Lab
2:35pm-2:55pm	Benchmarking Classical Optimization Dr. Salvatore Mandra, Research Scientist, NASA Ames
2:55pm-3:30pm	Panel Discussion DARPA, NASA Ames, Amazon, Cornell, Microsoft Research, Normal Computing
Workshop Concludes at 3:30pm	