Start	End	Tuesday, August 10, 2021	
9:15am	9:30am	Welcome; Zoom link: https://cuboulder.zoom.us/j/93871158287	
9:30 AM	11:00 AM	Session 1A: Advanced Numerical Methods; Chair:	Session 1B: Engineering Applications; Chair:
J.SU AIVI	11:00 AIVI	Zoom link: https://cuboulder.zoom.us/j/93871158287	Zoom link: https://cuboulder.zoom.us/j/99652270957
9:30 AM	9:45 AM	1A.1: Steven Kiyabu, Modeling Combustion Reaction ODEs with Neural Networks	1B.1: Sean Bohling , Experimentally Demonstrating a Structed Light and Machine Learning based Flow Velocimeter
9:45 AM	10:00 AM	1A.2: Parvathi Kooloth, Data-driven Adaptive Mesh Refinement in PeleC	1B.2: Dasha Gloutak , Impact of Surging Streamwise Flow on Laminar Separation Bubble Dynamics for a Finite-Span Wing
10:00 AM	10:15 AM	1A.3: Caelan Lapointe, Towards Efficient Simulations of Fire Spread in the Wildland-Urban Interface	1B.3: Matt Kronwall, Erosion Rates of Graphite Nozzles in Hybrid Rocket Motors
10:15 AM	10:30 AM	1A.4: Julian Quick, Multifidelity Multiobjective Optimization for Wake Steering Strategies	1B.4: Luke McLaughlin, The Influence of Airflow on Aerosol Production from Commercial Fire Pits
10:30 AM	10:45 AM	1A.5: Chayut Teeraratkul , Two way coupled fluid-particle coupled interaction using immersed finite element method	1B.5: Aaron True , Distortion of passive scalar structure during suction-based sampling of airborne odor plumes
10:45 AM	11:00 AM	1A.6: Eunji Yoo, One-Dimensional Flow of Cryogenic Helium Below 4K	1B.6: Brye Windell , Development of Advanced Combustion Strategies for Direct Injection Heavy Duty LPG Engines to Achieve Near-Diesel Engine Efficiency
11:00 AM	11:15 AM	Break I	
11:15 AM	12:15 PM	Session 2A: Multiphase Flows; Chair:	Session 2B: Modeling; Chair:
		Zoom link: https://cuboulder.zoom.us/j/93871158287	Zoom link: https://cuboulder.zoom.us/j/99652270957
11:15 AM	11:30 AM	2A.1: Davis Conklin , Modeling self-limited surface reactions on particles in a fluidized bed ALD reactor	2B.1: Filipe Henrique, Double Layer Charging Inside a Nanopore of Arbitrary Debye Length
11:30 AM	11:45 AM	2A.2: Andrew J. Gibson, Application of Koopman LQR to the control of nonlinear bubble dynamics	2B.2: Nathan Jarvey , Impact of Faradaic Reaction of the Structure of Electrical Double Layer: A Perturbation Expansion Model
11:45 AM	12:00 PM	2A.3: William Schupbach , Central Moment Lattice Boltzmann Schemes with Fokker-Planck Guided Collision for Simulation of Multiphase Flows with Surfactant Effects	2B.3: Grant Norman, Mesh Element Topologies in Large Eddy Simulation
12:00 PM	12:15 PM	2A.4: Ashish Srivastava , Numerical Simulation of Viscous Microdroplets Flowing Through Straight Microchannels	2B.4: Gauri Wadhwa , Flow-mediated Infection Transmission in a Dynamic Social Environment in Indoor Occupied Spaces
12:15 PM	1:00 PM	Break II / Lunch	
1:00 PM	2:00 PM	Keynote: "Wildland fire: how did we get here and research needed to move forward", Dr. Sara McAllister, RMRS Missoula Fire Sciences Laboratory;	
		Zoom link: https://cuboulder.zoom.us/j/94570317915	
2:00 PM	2:15 PM	Break III	
2:15 PM	3:00 PM	Session 3A: Atmospheric and Oceanic Flows; Chair:	Session 3B: Turbulence; Chair:
		Zoom link: https://cuboulder.zoom.us/j/93871158287	Zoom link: https://cuboulder.zoom.us/j/99652270957
2:15 PM	2:30 PM	3A.1: Emily de Jong, Understanding Low Level Jets in the US Atlantic Offshore	3B.1: Michael Meehan, Vorticity dynamics in buoyant helium plumes
2:30 PM	2:45 PM	3A.2: Skyler Kern , Progress towards automatic parameter estimation in BFM17 using observing system simulation experiments	3B.2: Samantha Sheppard , Generalizing the Concept of the Surface Layer
2:45 PM	3:00 PM	3A.3: Jaylon McGhee , The Impact of Atmospheric Stability and Wake Turbulence on the Wind Turbine Blade Aerodynamics	3B.3: Samuel Whitman , Thermal Effects in the Turbulent Wake of a Strongly Heated Bluff Body
		Password for All Zoom Rooms: RMFM2021	