

Start	End	Tuesday, August 4, 2020		
8:15am	8:30am	<p style="text-align: center;">Welcome Zoom link: https://cuboulder.zoom.us/j/99659848218</p>		
8:30am	8:55am	<p style="text-align: center;">Session 1A: Reacting Flows Zoom link: https://cuboulder.zoom.us/j/91217406920</p>	<p style="text-align: center;">Session 1B: Multiphase Flows Zoom link: https://cuboulder.zoom.us/j/93965198075</p>	<p style="text-align: center;">Session 1C: Engineering Applications Zoom link: https://cuboulder.zoom.us/j/96234600699</p>
8:30am	8:35am	1A.1 Malarich: Spatially Resolved Temperature Measurements from a Single-Beam Laser	1B.1 Ausman: Oblique Collisions of Two and Three Wetted Spheres	1C.1 Kumar: Visualization of Flows from Musical Instruments
8:35am	8:40am	1A.2 Brown: Assessment of Hencken Burner Platform for Measurement of Unstretched Flame Speeds	1B.2 Gissinger: Contaminated Emulsions Flowing through Porous Media Near Critical Conditions	1C.2 Vallabhuni: Superhydrophobic Coatings for Improved Performance of Electrical Insulators
8:40am	8:45am	1A.3 Callahan: WindCline: A Wind Tunnel for Characterizing Flame Behavior Under Variable Wind Velocity and Slope	1B.3 Gibson: Application of Koopman theory and dynamic mode decomposition to the analysis of nonlinear bubble dynamics	1C.3 Blanco: Computational Fluid Dynamic Simulations of a Finite NACA 0015 Wing in an Unsteady Flow
8:45am	8:50am	1A.4 Lapointe: Progress Towards Efficient Simulation of Fire Suppression	1B.4 Taassob: Droplet Manipulation via Triboelectrification	1C.4 McGhee: Impact of Reynolds Number on a Finite Wing in Surging Flow
8:50am	8:55am	1A.5 Darragh: Vorticity Dynamics in a Turbulent Premixed Flame	1B.5 Arifi: Optimal Control of the Nonspherical Oscillation of Encapsulated Microbubbles for Biomedicine	1C.5 Gloutak: Impact of Reduced Frequency on a Finite Wing in Surging Flow
8:55am	9:00am	Break I		
9:00am	9:50am	<p style="text-align: center;">Panel Discussion: "Diversity and Inclusion in the Fluid Dynamics Community" Prof. Hope Michelsen, Dr. Nazanin Hoghooghi, Katie Lockwood, Skyler Kern Zoom link: https://cuboulder.zoom.us/j/99659848218</p>		
9:50am	10:00am	Break II		
10:00am	10:25am	<p style="text-align: center;">Session 2A: Biological Applications Zoom link: https://cuboulder.zoom.us/j/91217406920</p>	<p style="text-align: center;">Session 2B: Modeling I Zoom link: https://cuboulder.zoom.us/j/93965198075</p>	<p style="text-align: center;">Session 2C: Instabilities and Waves Zoom link: https://cuboulder.zoom.us/j/96234600699</p>
10:00am	10:05am	2A.1 Wilson: Flow Physics Modeling for Sars-CoV-2 Negative Pressure Isolation Space in a Skilled Nursing Facility	2B.1 Karbach: Modeling of laminar-turbulent transition in Taylor-Couette system using OpenFOAM in creation of undergraduate CFD tutorial	2C.1 Balin: Simulations of a Turbulent Boundary Layer with Strong Pressure Gradients
10:05am	10:10am	2A.2 Teeraratkul: Understanding Flow-mediated Transport in the Arterial Thrombus Neighborhood	2B.2 Parmar: Data Driven RANS Modeling	2C.2 Meehan: The Reynolds Number Dependence of the Buoyant Jet Puffing Frequency
10:10am	10:15am	2A.3 Sahni: Assessing Hemodynamics in the Ascending Aorta due to Surgical Anastomosis and Flow Modulation of Left Ventricular Assist Device	2B.3 Doronina: Parameter Estimation for Menter SST RANS Model Using Approximate Bayesian Computation	2C.3 Whitman: Turbulent Structure and Mixing in a Heated Bluff Body Wake
10:15am	10:20am	2A.4 Benjamin: Measuring Pressure and Flow to Quantify Changes in Alveolar Recruitment during Mechanical Ventilation	2B.4 Prakash: Invariant Data-Driven Subgrid Stress Closure for Large Eddy Simulation of Turbulence	2C.4 Buedel: Oblique Dispersive Shock Waves on the Surface of a Steady Supercritical Shallow Water Flow
10:20am	10:25am		2B.5 Sardana: Modeling a Non-Reacting Buoyant Turbulent Helium Plume Computationally using Adaptive Mesh Refinement (AMR)	2C.5 Mao: Experimental Investigation of Nonlinear Periodic Waves in a Viscous Fluid Conduit
10:25am	10:30am	Break III		
10:30am	11:20am	<p style="text-align: center;">Keynote: "Performance effects of vortex formation and shedding characterized by FTLE", Prof. Melissa Green, Syracuse University Zoom link: https://cuboulder.zoom.us/j/99659848218</p>		
11:20am	11:30am	Break IV		
11:30am	11:55am	<p style="text-align: center;">Session 3A: Optimization Zoom link: https://cuboulder.zoom.us/j/91217406920</p>	<p style="text-align: center;">Session 3B: Modeling II Zoom link: https://cuboulder.zoom.us/j/93965198075</p>	<p style="text-align: center;">Session 3C: Advanced CFD Zoom link: https://cuboulder.zoom.us/j/96234600699</p>
11:30am	11:35am	3A.1 Molina: Optimization of Fish Kinematics using Genetic Algorithm	3B.1 Glaws: Turbulent Flow Style Transfer for Fast Wind Farm Inflow Generation	3C.1 Roure: Capture of Fine Particles by Expanding Drops in Linear Flows
11:35am	11:40am	3A.2 Kern: Reducing the Biogeochemical Flux Model for Small Scale Simulations	3B.2 Patterson: Assessing and Improving the Accuracy of Synthetic Turbulence Generation	3C.2 Alnajar: Numerical Modeling of the Dynamics of Bubbles and Droplets with the Coupled Level Set and Volume-of-Fluid (CLSVOF) Method
11:40am	11:45am	3A.3 Quick: Field Sensitivity Analysis for Wind Energy Modeling	3B.3 Clapham: Artificial Intelligence for Turbulent Flow Data Recovery	3C.3 Schupbach: Central Moment Lattice Boltzmann Method based on Fokker-Planck Collision for Computational Fluid Dynamics
11:45am	11:50am	3A.4 Lopez Garulo: Novel Small UAS Flight Control through Active Flow Control	3B.4 Rybchuk: A Comparison of Trace Gas Dispersion from WRF-LES to Project Prairie Grass	3C.4 Wetterer-Nelson: Interactive Geometry Modification for Massively Parallel CFD Simulations
11:50am	11:55am	3A.5 Alireza Mirhoseini: An optimization approach to solve parametrized conservation laws based on reduced order models	3B.5 Towery: A Scaling Law for the Required Transition Zone Depth in Hybrid LES-DNS	3C.5 Wright: Grid Resolution Requirements for High-Fidelity STG Development in Finite Element Simulation
11:55am	12:05pm	<p style="text-align: center;">Concluding Remarks Zoom link: https://cuboulder.zoom.us/j/99659848218</p>		