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New Turbulent Multiphase Flow Facilities for Simulation Benchmarking¹ CHEE HAU TEOH, ASHWANTH SALIBINDLA, ASHIK UL-LAH MOHAMMAD MASUK, RUI NI, Pennsylvania State Univ — The Fluid Transport Lab at Penn State has devoted last few years on developing new experimental facilities to unveil the underlying physics of coupling between solid-gas and gas-liquid multiphase flow in a turbulent environment. In this poster, I will introduce one bubbly flow facility and one dusty flow facility for validating and verifying simulation results.

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