

Abstract Submitted  
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**Creative Turbulence: Experiments in Art and Physics**<sup>1</sup> ENRICO FONDA, R. LUKE DUBOIS, SARA CAMNASIO, MAURIZIO PORFIRI, KATEPALLI R. SREENIVASAN, New York University, DANIEL P. LATHROP, DANIEL SERRANO, University of Maryland, College Park, DEVESH RANJAN, Georgia Institute of Technology — Effective communication of basic research to non-experts is necessary to inspire the public and to justify support for science by the taxpayers. The creative power of art is particularly important to engage an adult audience, who otherwise might not be receptive to standard didactic material. Interdisciplinarity defines new trends in research, and works at the intersection of art and science are growing in popularity, even though they are often isolated experiments. We present a public-facing collaboration between physicists/engineers performing research in fluid dynamics, and audiovisual artists working in cutting-edge media installation and performance. The result of this collaboration is a curated exhibition, with supporting public programming. We present the artworks, the lesson learned from the interactions between artists and scientists, the potential outreach impact and future developments.

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