



国际学术报告

# Turbulence and Energized Reactive Flows

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报告人简介:

Prof Elaine Oran received her MPhil in Physics and PhD in Engineering and Applied Science at Yale University. She joined the faculty of the University of Maryland in 2013 as Glenn L. Martin Institute Professor of Engineering of the Department of Aerospace Engineering. She is also an Adjunct Professor of Aerospace Engineering at the University of Michigan and a Visiting Professor at the University of Leeds. Before joining the University of Maryland, she was Senior Scientist for Reactive Flow Physics at the US Naval Research Laboratory and was responsible for carrying out theoretical and computational research on the fluid and molecular properties of complex dynamic systems.

Prof Oran's recent research interests include combustion and propulsion, rarefied gases and microfluidics, fluid turbulence, materials engineering, high-performance computing and parallel architectures, computational science and numerical analysis, biophysical fluid dynamics, wave equations, and astrophysical phenomena such as supernova explosions and jets. She is author of over 300 refereed journal articles as well as many conference papers and presentations. She is also the coauthor of the book Numerical Simulation of Reactive Flow.

Prof Oran is a Member of the US National Academy of Engineering, an Honorary Fellow of the American Institute of Aeronautics and Astronautics, and a Fellow of both the American Physical Society and the Society of Industrial and Applied Mathematics. She has also received honorary doctorates from Ecole Centrale de Lyon and the University of Leeds.