

**Fluids at Brown, Division of Applied Mathematics
Fluids and Thermal Sciences, School of Engineering
Joint Seminar Series**

**TUESDAY – May 2, 2017
3:00 PM
Barus & Holley, Room 190**

***Greg Bewley
Mechanical and Aerospace Engineering
Cornell University***

Observations of extreme events in turbulence

The salient feature of turbulence is that it spontaneously concentrates energy onto small transient structures. I will introduce some of my past and future work on the rare and powerful dynamics that are a consequence of this process, including the reconnection of quantized vortices in superfluid helium, the collisions of cloud droplets in atmospheric turbulence, and the formation of small shocklets in compressible flows.

Short Bio:

Bio: Greg Bewley is a member of the Mechanical and Aerospace Engineering faculty at Cornell and is also a graduate from the same school. In the intervening years, he was awarded a PhD from Yale University. He then crossed the ocean for an opportunity at the Max Planck Institute for Dynamics and Self-Organization in Göttingen, Germany.