

ASET Colloquium

Forced flow: facts and friction

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Friday, 3 March 2017 from 16:00 to 17:00 at AG-66

Abstract: Structure and dynamics of macroscopic many-body systems are typically explored within the framework of pure systems with a large (Avogadro's) number of components and in thermodynamic equilibrium. Most systems in Nature are neither pure nor perfectly ordered, nor in equilibrium and frequently much smaller in size. This talk will illustrate examples of systems whose dynamical response differs greatly from the ideal cases. The common theme running through them is the old and vexing problem of friction relevant for the motion of a "forced" many-body non-ideal system. To an experimenter, different experimental systems provide different kinds of access to the important parameters and allow multiple perspectives that the proverbial blind person needs to describe an elephant.