CLARK UNIVERSITY
DEPARTMENT OF PHYSICS
COLLOQUIUM

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“Oscillating Structures in Fluids”

ABSTRACT: Animals fly and swim in fluids that we usually call air and water. The locomotion of these animals always involve one typical gait: the back and forth oscillation of a main portion of their body over space and time. This could be the up-and-down flapping of a pair of wings (for a bird), or the side-to-side undulation of a caudal fin (for a fish). In this talk, we will discuss a few cases in which oscillating structures closely interact with the surrounding fluids, and reveal a few interesting force laws and stability results.

Wednesday, October 24, 2018

12:30 pm - Room S-122

Sackler Sciences Center