

Center for Advanced Studies Lunchtime Scholarship Seminar Series

You are cordially invited to the Center for Advanced Studies (CAS) Lunchtime Scholarship Seminar on Thursday, March 20 at the Officers' Club. Come hear about the research and scholarship being done by your fellow faculty!

Dr. Elisha Garcia from the Department of Engineering will be presenting "Shake 'N Break: Fluid-Structure Interaction Modeling". This seminar will be presented at a level where all faculty and staff will be able to understand. Also find out about other upcoming CAS Lunchtime Scholarship Seminars.

A social time will begin at 1145; you can use this time to catch up with fellow faculty from across the campus. The presentation will commence around 1210 and will conclude in time for everyone to make their afternoon classes.

Lunch costs \$7 and can be paid at the door. Please R.S.V.P. by COB on Monday, March 17th to Dr. Elizabeth Rivero (Elizabeth.G.Rivero@uscga.edu).



Presentation Abstract

Two fluid-structure interactions, Vortex-Induced Vibrations (VIV), and galloping, have been phenomenon of interest for decades, both due to their destructive power and, more recently, their potential for renewable energy extraction. The research presented will show that these are actually resonance phenomenon (good ol' mass-spring-dashpot example) when treated with a variable added mass.