

Careers and Research in Aerospace and Mechanical Engineering

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Abstract:

This talk will describe the range of possible careers one can have with a college major in aerospace or mechanical engineering, including those in the energy and aerospace/defense sectors. We'll also discuss preparation for studying engineering at a four-year university, the types of university classes one takes in various engineering fields, and ongoing research at UCLA in fluid mechanics and combustion as applied to energy and propulsion systems.

Bio:

Ann Karagozian has been a Professor in the Department of Mechanical and Aerospace Engineering at UCLA since 1982. Her research interests lie in fluid mechanics and combustion as applied to improved engine efficiency, reduced emissions, alternative fuels, and advanced air breathing and rocket propulsion systems. She was a member of the Air Force Scientific Advisory Board for nearly a dozen years, twice receiving the Air Force Decoration for Exceptional Civilian Service, serving as Vice Chair (2005-2009), and chairing numerous technical studies for the SAB. Prof. Karagozian is a Fellow of the American Physical Society, the American Institute of Aeronautics and Astronautics, and of the American Society of Mechanical Engineers. She received her B.S. in Engineering from UCLA and her M.S. and Ph.D. in Mechanical Engineering from the California Institute of Technology. More information on Karagozian's UCLA Energy and Propulsion Research Laboratory may be found at <http://www.seas.ucla.edu/combustion/>.