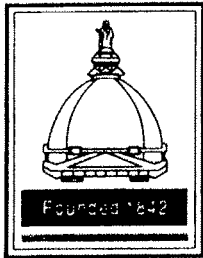


AEROSPACE & MECHANICAL ENGINEERING



2010 COLLOQUIUM 2011 SEMINARS ARE OPEN TO THE PUBLIC

INFORMAL COFFEE PERIOD BEFORE THE SEMINAR IN ROOM 365 FITZPATRICK HALL
UNIVERSITY OF NOTRE DAME, NOTRE DAME, INDIANA 46556

SPEAKER: **Professor Steve Gibson**
Department of Mechanical and Aerospace Engineering
University of California, Los Angeles
Los Angeles, California

TOPIC: **CONTROL, FILTERING AND SYSTEM IDENTIFICATION
FOR CONTROL OF LASER BEAMS**

DATE: Tuesday, October 12, 2010

TIME: 3:30 p.m.

PLACE: 136 DeBartolo Hall

ABSTRACT

In recent years, advanced methods for control, filtering and system identification have been applied to control of laser beams. By predicting wavefront error and disturbance, the new methods produce improved wavefront correction in adaptive optics and more precise laser beam pointing and target tracking as compared to performance achievable by the classical methods of adaptive optics and tracking. This seminar will discuss UCLA's research on adaptive control, optimal filtering and control and system identification for both adaptive optics and tracking.

NOTE: *If you are interested in meeting individually with
Prof. Gibson, please contact Evelyn at 631-5431*