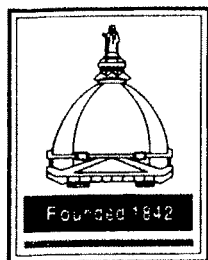


AEROSPACE & MECHANICAL ENGINEERING



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

MIDWEST MECHANICS SEMINAR

SPEAKER: **Professor Ronald J. Adrian**
Mechanical and Aerospace Engineering
Arizona State University
Tempe, Arizona

TOPIC: **EXTRACTING ORDER FROM CHAOS:
DISSECTING TURBULENT MOTION**

DATE: Tuesday, September 21, 2010

TIME: 3:30 p.m.

PLACE: 136 DeBartolo Hall

ABSTRACT

Much of science deals with reducing the complexity of a phenomenon to its deeper, underlying elements. The structure of DNA is a wonderful example of the discovery of a simple structure that explains many of life's mysteries and enables enormous practical advances. Turbulent flow is a phenomenon that we literally live (in) and breath. It is both complex and chaotic, and it has resisted penetration by some of the most famous names in science. We will look at the history and concepts of the struggle to find simplicity in the myriad complex motions that constitute turbulent flow, and discuss the current picture of the structure of turbulent flow over smooth walls.

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