



Research and Technology at Edwards Air Force Base

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(September 17, 2007, 1:30 pm, Tompkins Hall, Room 204)

This presentation will discuss research programs at Edwards AFB. The topics will overlap areas of test and evaluation, mathematics, computer science, physics, electronics, aerospace, and telemetry. People interested in potential research topics, career paths, or leading edge technologies are encouraged to attend.

The first part of the presentation will introduce the process of test and evaluation of aircraft which is the primary activity at Edwards AFB. This requires extensive instrumentation on the aircraft, real time monitoring of flights using telemetry, and considerable post-flight data analysis. The second part of the presentation will overview some current research. Areas discussed include smart sensors, power line communications, telemetry spectrum issues, hypersonics (Mach 6+), and other misc. topics. The third part of the presentation will overview some research funding mechanisms available at Edwards. These include Air Force Office of Scientific Research (AFOSR) grants and Small Business Innovation Research (SBIR) contracts.

