



*American Institute of
Aeronautics and Astronautics
Dayton-Cincinnati Section*

**Lunch 'n' Learn
Friday 18 Nov 2011**

**“Development of a 5th
Generation Target Drone”**

**Guest Speaker:
Dennis Carter, AFRL**



The Fifth Generation Target Study (5GTS) was a conceptual design task for a large target drone aircraft capable of representing key 5th generation fighter signature and performance attributes. The target drone's intended uses are to test air-to-air and surface-to-air missiles, and to ensure that modern tracking systems are capable of identifying and targeting 5th generation fighters. The costs associated with a new military design were unaffordable for a target, so the team looked into taking advantage of the materials and methods that were developed for the new Very Light Jets in general aviation. This study was to recommend an interim full scale target to continue full scale testing, after the depletion of the inventory of QF-4 targets, and to design a new target more representative of the 5th Generation threat .

Mr. Dennis Carter is an Aerospace Engineer at the Air Force Research Laboratory's Air Vehicles Directorate. He has co-authored over 20 publications and is an AIAA Associate Fellow. Other programs he has worked include the X-29 “Forward Swept Wing”, the F-111 “Mission Adaptive Wing”, and the F-15 “STOL and Maneuver Technology Demonstrator” programs as well as the NF-16 “Variable-stability, In-flight Simulation Test Aircraft” development program.

Time: 11:45 am

Location:

**China Garden Buffet
112 Woodman Dr.
Dayton, OH 45431**

Lunch:

**You will be able to
purchase the buffet**

