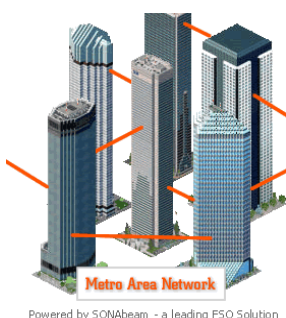
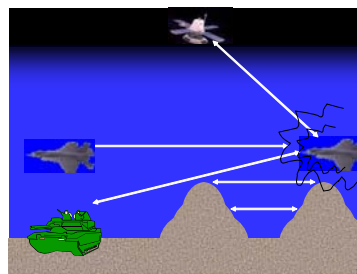


# UCF Mathematics Graduate Students in Laser Propagation (Optics)



LASER COMMUNICATION  
SYSTEMS



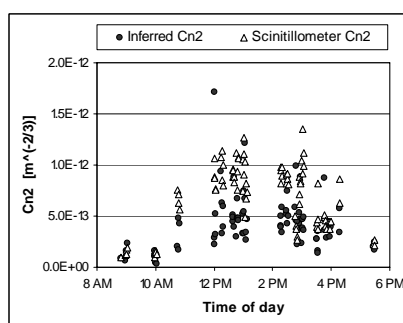
LASER RADAR TARGET  
IDENTIFICATION SYSTEMS

Graduate students who pursue a Ph.D. in mathematics can work in the area of mathematical modeling of atmospheric effects on laser beams. Current work is on characterizing the propagation path which has applications to laser communication and laser radar (target identification) systems.

Graduate students interested in this area would follow an applied track and take the following mathematics courses:

- MAP 5435: Advanced Engineering Math
- MAP 5426: Special Functions
- MAP 6938: Wave Propagation through Random Media

Dr. Young's students have traveled to Australia and the Naval Research Laboratory in Washington DC to participate in experiments to validate theoretical models.



The following is a list of companies where recent UCF graduates who worked in the laser propagation group are currently working or who had offers from these companies:

Daniel H. Wagner and Associates  
Northrop Grumman  
Naval Research Laboratory

The Boeing Corporation  
SAIC  
Australian DSTO