IEEE Computer Society Huntsville Chapter Meeting

Speaker: **Dr. Stephen Jones, Scientific Research Corporation**

Subject: **Multi-Spectral Stimulator Injection Test Method**

Date: **Tuesday, June 21, 2005**

Time: **11:30-1:30**

Place: The Adtran East Tower. Ask the receptionist for directions to the cafeteria. The meeting will be in the Private Dining Room located directly past the cash registers. The cafeteria has several food stations with a wide variety of reasonably priced meal items.

Directions: Take Bradford Drive West past Research Park Boulevard. Continue through the stop light at Explorer Boulevard. The Adtran East Tower is straight ahead. Continue straight to the front courtyard, spaces marked for visitor parking are on the left. If no spaces are available, follow the road around to the right to the general parking area.

Reservations: Contact Dr. Glenn Cox at gcox@cs.uah.edu or 824-6433 if you plan to attend.

Abstract:

The Multi-Spectral Stimulator (MSS) is portable, low cost, scalable, and can produce synchronous IR and RF outputs for either injection or projection stimulation of a multi-mode sensor system. This briefing will detail the system components and the move towards real-time closed-loop integration of a prototype MSS to hardware and a digital model simulation.

The Multi-Spectral Stimulator is designed to answer the future testing and evaluation needs for emerging multi-spectral technology. The IR and RF scenes are temporally and spatially registered and generated from three-dimensional databases. A common Scenario Controller coordinates terrain, target and sensor data to a Radar Environment Simulator and an IR Scene Generation system. The Scenario Controller also acts as the conduit to a Test and Training ENabling Architecture (TENA) Interface thus allowing the stimulator to interact with outside systems (i.e. battlefield scenarios, live targets / threats, and simulations).

Biographical Sketch: Dr. Jones is the Program Manager/Systems Engineer for the Multi-Spectral Stimulator Injection Test Method, sponsored by OSD T&E/S&T program. His background includes support for HWIL, captured flight tests, threat simulations, and imaging IR seeker integration and development.

Mark your Calendar