



International Council on Systems Engineering
Delaware Valley Chapter Meeting
(Non-members welcome to attend)

Systems Engineering at the FAA Technical Center

Topic 1: The Security Concerns of Wireless Technology within the FAA
Speaker: Anthony Stevens, CISSP, FAA's Information Security Group

Topic 2: Human Factors and Engineering FAA Systems
Speaker: Michael McAnulty, PhD, FAA's NAS Human Factors Group

Date: Tuesday, February 8, 2005

Time: 6:00 p.m. \$5 for the buffet meal
6:30 p.m. Meeting begins

Place: FAA William J Hughes Technical Center
Building 300, Auditorium
Atlantic City International Airport
For directions to the FAA WJH Technical Center, please visit the web site
<http://www.tc.faa.gov/its/cmd/visitors/moredirect.html>

Please contact Clifton.Baldwin@faa.gov if you plan to attend this event. **Due to security at the FAA Technical Center, all non-FAA attendees must be put on a list in advance to access the event.**

For author biographical summaries, see next page.

For further information about the International Council on Systems Engineering please visit the INCOSE website at <http://www.incose.org/> and the Delaware Valley Chapter website at <http://www.incose.org/delvalley/>

The Security Concerns of Wireless Technology within the FAA

Anthony Stevens is the chief researcher for the William J. Hughes Technical Center's (WJHTC) Integrity and Confidentiality in the Mobile Environment Laboratory (I&C). This laboratory provides rapid prototyping, vendor evaluation, and requirements validation capability for FAA wireless systems. Mr. Stevens also manages I&C Lab integration into the ACB-250 INFOSEC laboratory and other WJHTC facilities.

Mr. Stevens joined the government in 1984 and holds a Bachelor Degree in Electrical Engineering from Drexel University. He is a Certified Information Systems Security Professional (CISSP) and a Certified Wireless Network Administrator (CWNA). He is the author of 2 papers on Hyperbolic Beacon Multilateration for Surface Movement and GPS Ground Tracking Systems. His previous work also includes CPDLC, FAA Surface Movement Systems, FAA Terminal and Enroute Radar Systems and Naval Phased-Array, 2-D and 3-D Radars.

Human Factors and Engineering FAA Systems

D. Michael McAnulty is an Engineering Research Psychologist with the Federal Aviation Administration (FAA) William J. Hughes Technical Center. He is the Team Lead for Acquisition Human Factors at the Research, Development, and Human Factors Laboratory. The team conducts human factors studies related to systems the FAA is acquiring or developing for use in the national airspace system. His previous positions with the FAA include a term as the Human Factors Branch Manager, a detail as Scientific and Technical Advisor for Human Factors at FAA Headquarters, and serving as a Human Factors Specialist in Aviation Security Research and Development.

Prior to joining the FAA in 1994, he was a Principal Scientist for Anacapa Sciences, Inc., and served as the Office Manager and Research Coordinator of the human factors program supporting the Army Research Institute Office at the Army Aviation Center at Fort Rucker, Alabama. While there, Dr. McAnulty conducted research and supervised the research program related to helicopter design, aviation management, and aviator selection and training. He also developed design guidelines for standalone Global Positioning System/Loran receivers for the Department of Transportation.

He holds a Ph.D. in Industrial/Organizational Psychology and an MS in Experimental Psychology, and has over 20 years experience in the human factors discipline. He has published over 70 articles and technical reports. He served on active duty in the US Navy from 1969-1976.