



Seminar Series of the



AFRL/VA and AFOSR

Collaborative Center of Control Science (CCCS)

Technology for Future Unmanned Combat Air Vehicle (UCAV) Concepts of Operation

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Abstract: The UCAV program is a joint DARPA/U.S. Air Force/Boeing effort to demonstrate the technical feasibility, military utility, and operational value of a UCAV system to effectively and affordably prosecute 21st century lethal and non-lethal suppression of enemy air defenses and strike missions within the emerging global command and control architecture. The X-45A is demonstrating the technical feasibility of the UCAV concept. The program is now designing a more operationally representative robust prototype that will demonstrate the military utility and operational value of the UCAV system. Advances in control and information and technologies provide new opportunities for UCAV combat operations. This presentation will provide a brief overview of the applicable technologies and their impact on UCAV concepts of operation.

Biography: Marc J. Pitarys is the government Technical Director for the DARPA/Air Force Unmanned Combat Air Vehicle (UCAV) program. He's responsible for providing technical leadership and direction for UCAV program's technical team and its related engineering and demonstrations activities. Prior to his current position, Mr. Pitarys was the Air Force software lead for the Joint Strike Fighter (JSF) program from 1994 to 1999. From 1989 to 1993, Mr. Pitarys performed embedded software technology R&D and managed advanced development contracts for the Air Force's Avionics Directorate. Before becoming a civilian engineer, Mr. Pitarys served as an Air Force officer from 1985 to 1989. Mr. Pitarys received a BS in electrical engineering degree from the University of New Hampshire (1985). From the University of Dayton, Mr. Pitarys received a MS degree in applied mathematical systems (1993) and a MS in management science (1995).