Micro Air Vehicles

Mr. Sam Wilson III,
Defense Advanced Research Projects Agency (DARPA)
Micro-Air Vehicles Program Manager

A new family of Micro-Air Vehicles (MAVs) that are at least an order of magnitude smaller than current flying systems (about 15 cm in any dimension) are being developed and demonstrated. The capability to accomplish unique military missions as diverse as small unit reconnaissance and surveillance, support of military operations in urban terrain, targeting and tagging high-value targets in denied areas, and, biological-chemical agent detection and characterization, will be stressed through an examination of a variety of vehicle concepts. The resulting capability should be especially beneficial in the emerging urban warfighting environment, characterized by its complex topologies, confined spaces and areas (often internal to buildings), and high civilian concentrations. The MAV program focuses on the technologies and components required to enable flight at these small scales, including flight control, power and propulsion, navigation and communications. These will build upon and exploit numerous DARPA technology development efforts, including advanced communications and information systems, including advanced communications and information systems, high performance computer technology, Microelectromechanical Systems (MEMS), advanced sensors, advanced electronic packaging technologies, and lightweight, efficient high-density power sources. Organic Air Vehicles (OAV) for Future Combat Systems (FCS) are envisioned to be much smaller than current air assets and capable of performing several FCS missions at an affordable cost. The primary goal of the OAV effort within the MAV program is to further develop and integrate MAV technologies into a militarily useful and affordable system suitable for FCS applications.

Date: Saturday July 27th, 2002

Location: The Johns Hopkins University Applied Physics Laboratory, Laurel, MD (Howard County Room Number 3 at the Cafeteria)

Deli/Social: 5:30 PM
Presentation: 6:30 PM

Cost: $9.00 per member or guest, students free

RSVP by July 20th to: Dr. Jose J. Guzman
e-mail: guzman@ai-solutions.com
phone: 301-306-1756 x134

Directions: [http://www.jhuapl.edu/newsEvents/visitor/direcMap.htm](http://www.jhuapl.edu/newsEvents/visitor/direcMap.htm)
Park in Visitor Parking at Main Entrance and enter through Main Entrance. Cafeteria and Howard County Rooms are to the right just past the Lobby.