MICROWAVE THEORY AND TECHNIQUES SOCIETY,
LIFE MEMBER AFFINITY GROUP, EDCAS, AND
AEROSPACE ENGINEERING
BUENA VENTURA SECTION

You are invited

Date/ Time: **Wed January 16th, 2012**
6:30 PM Pizza & networking
7:00 PM Presentation

Location: **Ciao Wireless**
4000 via Pescador
Camarillo, CA 93012

Speaker: **Earl Cox, Program Manager & Systems Engineer**
AeroVironment, Inc.

Title: **Adoption of the DDL Waveform for the most widely deployed UAV in the world (19,000 airframes)**

Abstract:
Small Unmanned Aircraft Systems (SUAS) such as the Army's RQ-11B Raven have become a vital part of a soldier's equipment since the early 2000's. They help to cut through the Fog of War by providing the soldier with a vantage point to observe his or her surroundings while remaining far away from the danger.
In order to accomplish this, however, the soldier needs to be able to communicate with the aircraft, both to control it and to get the information that it has.

A major improvement in the SUAS field that Earl will discuss is an interoperable data link called the SUAS Digital Data Link (SUAS DDL or just "DDL"). The Army has adopted this data link as its standard waveform for all of its Unmanned Aircraft weighing less than 30 lbs.

This presentation will describe the waveform and how it can be used to work with Small Unmanned Aircraft to keep American and allied soldiers safer.

Earl Cox is a Program Manager and Systems Engineer at AeroVironment in Simi Valley, CA. Having earned his BS & MS degrees from Cornell University in Electrical Engineering, Earl has worked as a Communications System Engineer for over 25 years bouncing between the commercial and government sectors. In between undergrad and grad school, he took a 4-year hiatus to serve as an Officer in the U.S. Navy.

His commercial work has revolved around digital microwave radio and digital cellular phone technology at AT&T Bell Labs, BellCore, Rockwell Semiconductor (now SkyWorks), Televersal Systems, and Broadcom. On the government side, he has worked in the SIGINT and UAS areas at Applied Signal Technology and AeroVironment, respectively. At AV, Inc., the Helios team he was a member of, flew a solar-powered UAV to over 96,000 feet, setting the world record for highest level aircraft flight. Earl's current work involves small and micro-UAS.

In his personal life, Earl spends too much time demonstrating his electric powered sports car showing people that a sustainable world without petroleum can be a lot of fun.

Directions to Ciao Wireless:

4000 Via Pescador
Camarillo Ca. Phone: 805-389-3224

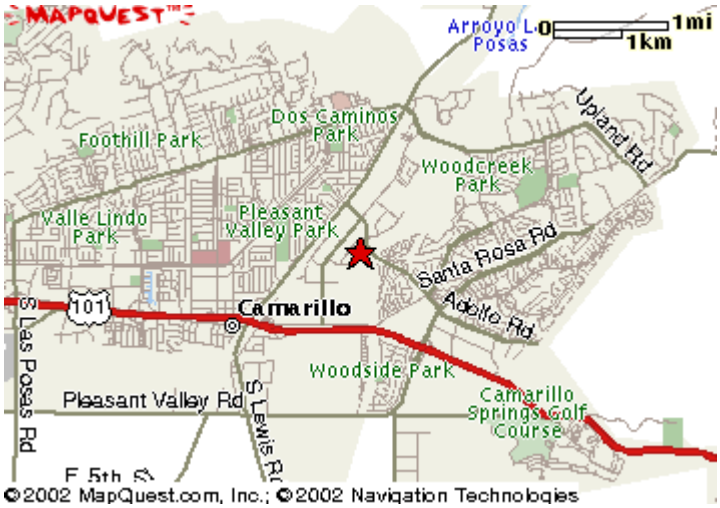
From LA and South

Take the I-405N.

Take the US-101/VENTURA FWY North

Exit FLYNN RD and go straight.

Turn RIGHT onto VIA PESCADOR. (2nd Road on RIGHT)



From Santa Barbara and North:

Take the US-101S/VENTURA FWY towards LOS ANGELES.

Take the DAWSON DRIVE exit and turn RIGHT from the ramp.

Turn RIGHT at the light onto DAWSON DRIVE.

Turn LEFT at the light onto FLYNN ROAD.
Turn RIGHT onto VIA PESCADOR. (2nd Road on RIGHT)