



**Presented by: Alan Loprete**

**National Instruments Field Engineer in Northwest Maryland**

**Thursday, 15 April, 1100hrs**

**National Electronic Museum, Linthicum, MD**

**Presentation: “Commercial Off the Shelf Technologies for Electronic Warfare Applications.”**

This presentation will present the latest advances in Commercial-Off-The-Shelf-Technologies (COTS) and how they are used in electronic warfare systems. Multicore Processors, FPGA Chips, the PCI Express Bus and Graphical System Design software are making high performance applications easier to use, lowering cost and shortening development cycles. We will explore how these technologies are being integrated into the RF Environment and the impact on engineering development. We will look at real-world examples of pipe-lined processing, RF Record and Playback, MIMO/Direction Finding and Software Defined Radio and how these relate to Electronic Warfare applications using COTS technology.

**Speaker: Alan Loprete**

Alan Loprete is the National Instruments Field Engineer in Northwest Maryland. Since 2005 he has worked with hundreds of scientists and engineers in the DC, Frederick, and Baltimore area to design and implement test measurement, and control systems. Some of the most common applications he works on are automated test/instrumentation, hardware-in-the-loop simulation, and RF systems, including phase-coherency and RF record and playback. His role is also to ensure the ongoing success of National Instruments customers, enabling them to increase their productivity, enhance organizational capabilities, and substantially reduce their costs.

Alan received a B.S. in Computer Science from the School of Engineering at Vanderbilt University in 2003. At present he is pursuing an MBA from the Georgetown University McDonough School of Business.

**LUNCH:** The fare will be a light lunch with soda and coffee.

**Luncheon Reservations:** To register for dinner, contact Jim Chism at [jchism@chesapeakebayaoc.org](mailto:jchism@chesapeakebayaoc.org) or call **410.724.5949**. **Lunch Cost:** \$10.00, pay at the luncheon.

**Corporate Sponsor:** We wish to thank The National Electronics Museum for supporting the AOC Chesapeake Roost with the use of their facilities.

**Our luncheon Agenda:**

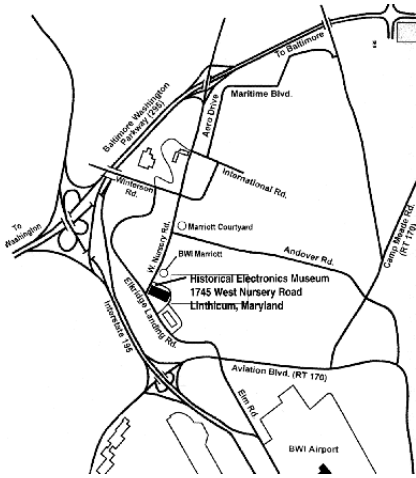
**1100 – 11:15 am Arrival and Socializing**

**11:15 – 11:45 am Lunch**

**11:45 – 12:00 pm Roost Business items and Speaker Introduction**

**12:00 – 12:45 pm Presentation**

## Directions to the National Electronic Museum:



### **From Baltimore**

Route 295 South (Baltimore Washington Parkway)

Take West Nursery Road exit, turn left at light and go through four stoplights.

Museum is on the left, next to the Marriott Hotel.

### **From Annapolis**

Route 97 North

Take BWI Airport exit. Right at first light onto Aviation Boulevard.

Turn right at sixth light onto Elkridge Landing Road.

Turn right at second light onto West Nursery Road.

Museum is on the right, next to the Marriott Hotel.

### **From Washington**

Route 295 North (Baltimore Washington Parkway)

Take West Nursery Road exit, stay right on ramp.

Go through three stoplights.

Museum is on the left, next to the Marriott Hotel.

### **From Route 195**

Route 170 North (Camp Meade Road) towards Linthicum.

Left at first light onto Elm Road.

Left at light onto Elkridge Landing Road.

Right onto West Nursery Road.

Museum is on the right next to the Marriott Hotel.

### **From Interstate 95**

Exit onto 195 East to 295 North and follow directions from Washington (above).