1:45 p.m. – 2:15 p.m.
Wireless Monitoring with Orb-weaver and Flying Fox

Brandon Enochs
Naval Research Laboratory

To enhance the security posture of DoD networks, Orb-weaverTM, a Government-off-the-Shelf (GOTS) software application developed by the U.S. Naval Research Laboratory, provides 24/7 real-time discovery and mapping of Wi-Fi ®, Bluetooth® and cellular networks. Orb-weaver is deployed with Flying FoxTM sensors developed by Epiq Solutions. The passive cellular, Wi-Fi, and Bluetooth detection capability provided by the Flying Fox sensors promotes compliance with "no cell phone" and other organizational policies, as well as enables implementation of WIDS (Wireless Intrusion Detection Systems). Flying Fox innovative sensors provide much-needed "zero false positive" cellular intrusion detection capabilities for numerous defense and intelligence agencies. Current "energy-only" detection sensors for cellular are prone to registering false positives, resulting in wasted time and cost. With the elimination of false positive readings, government and military personnel can quickly, accurately, and reliably identify signals, getting mission critical information to those who need it faster than ever before. Together with Orb-weaver, Flying Fox sensors can be networked to monitor cellular, as well as Wi-Fi and Bluetooth signals in high security, "no wireless" areas, such as government buildings.