



Fifth Annual Emerging Spectrum Technology (EST) Workshop on

Advanced Radar Technologies to Improve Spectrum Use

Addressing the Challenges of Global Radar Spectrum Access Through Enabling and Emerging Technologies



Date: September 13-14, 2010

Locations: DoubleTree Hotel, Annapolis, Maryland (Unclassified)
Joint Spectrum Center, Annapolis, Maryland (Classified)

Workshop Agenda

Day 1 – September 13, 2010 (Morning)		
Time	Topic	Speaker/Organization
7:30am-8:30am	Registration/Check-in	
8:30am-8:45am	Welcome/Opening Remarks/Workshop Objectives	Mike Williams/DSO
8:45am-9:15am	Keynote <ul style="list-style-type: none"> • Radar Research Initiatives • Technology/Policy/Regulatory Trends • Radar Spectrum Challenges • Current DOD Activities 	Dr. John Stubstad/AT&T
9:15am-9:45am	Radar Spectrum Working Group (RSWG) Status <ul style="list-style-type: none"> • RSWG objectives and outreach • RSWG and sub-working group activities • Radar acquisition 	Lily Zeleke/NII Rob Sexton/AT&T
9:45am-10:00am	Break	
10:00am-11:30am	NII/Services Radar Challenges <ul style="list-style-type: none"> • Growing spectrum requirements • Increased operational and regulatory pressures on DoD global spectrum access • Host nation coordination • Managing interference instead of avoiding interference • Agency priorities and collaboration 	Mark Norton/NII Fred Moorefield/AFFMA Tom Kidd/DON CIO Mark Johnson/OPNAV Moderator: Mike Williams/DSO
11:30am-1:00pm	Lunch	
Day 1 – September 13, 2010 (Afternoon)		
1:00pm-1:15pm	RSWG Technical Issues	Bob Schneider/DSO
1:15pm-2:00pm	NTIA Radar Initiatives/Effect of Interference on Radar	Frank Sanders/NTIA John Carroll/NTIA
2:00pm-2:40pm	Cognitive Radar: Knowledge-Aided Fully Adaptive Radar	Dr. Joe Guerci/IEEE Fellow
2:40pm-2:55pm	Break	
2:55pm-3:25pm	DARPA Initiatives on Advanced Radar Technologies	Vincent Sabio/DARPA
3:25pm-4:05pm	Air Force Research Lab (AFRL) Research on Radar	Dr. Mike Wicks/AFRL
4:05pm-4:35pm	Complex Networks and Sensor Fusion	Dr. Bob Bonneau/AFOSR
4:35pm-4:50pm	Wrap-up for Day 1	DSO
5:00pm-6:00pm	Break	
6:00pm-7:00pm	Dinner	



Fifth Annual Emerging Spectrum Technology (EST) Workshop on

Advanced Radar Technologies to Improve Spectrum Use

Addressing the Challenges of Global Radar Spectrum Access Through Enabling and Emerging Technologies



Day 2 – September 14, 2010 (Morning)		
Time	Topic	Speaker/Organization
7:30am-8:30am	Day 2 Check-in	
8:30am-8:45am	Opening Remarks and Day 2 Objectives	Mike Williams/DSO
8:45am-9:15am	Lockheed-Martin Radar Technologies (Congested Spectrum)	James Day/Lockheed Martin
9:15am-9:45am	Northrop Grumman Radar Technologies	Dr. Eric Reinke/Northrop Grumman
9:45am-10:00am	Break	
10:00am-10:30am	Spectrum Issues in Amplifier Design	Dr. Charles Baylis/ Baylor University Dr. Robert Marks II/ Baylor University
10:30am-11:00am	Ultra-Wideband Radar Signal Analysis, Monitoring, and Direction Finding	Dr. Randall Babbitt/S2 Corporation
11:00am-11:15am	Closing Remarks for General Workshop Sessions (End of General Sessions)	DSO
11:15am-1:00pm	Break/Lunch/Travel to Joint Spectrum Center (JSC)	
Day 2 – September 14, 2010 (Afternoon)		
Classified Session at Joint Spectrum Center (by Invitation Only)		
1:00pm-1:15pm	Overarching Interference Mitigation Outlook	Bob Schneider/DSO
1:15pm-1:45pm	Spectrally Modulated, Spectrally Encoded (SMSE) based DSA Radar Waveform	Dr. Vasu Chakravarthy AFRL/Ryre
1:45pm-2:15pm	Army Research on Radar	Larry Bovino/CERDEC
2:15pm-2:45pm	NRL Perspective on USN-USMC Radar Research	Dr. Eric Mokole/NRL
2:45pm-3:00pm	Break	
3:00pm-3:30pm	Shared-Spectrum Radar/Spectrum Efficient Waveform Implementations	Dr. Shannon Blunt/ University of Kansas
3:30pm-4:00pm	Radar Spectrum Research Issues	Larry Cohen/NRL
4:00pm-4:30pm	US Navy Radar and WiMAX Issues	Bruce Naley/NSWC
4:30pm-4:45pm	Closing Remarks	DSO