

Attachment 1
Solicitation Number ONRBAA14-006 for Electronic Warfare Technology

Listing of Prior and Current ONR 31 EW Technology Efforts

Apertures						
RF Antennas	FY Start	FY End	Organization	PI	EMAIL	PHONE
Antennas from VHF to THz	FY08	FY10	Univ Colorado	Prof. Dejan Filipovic	dejan@colorado.edu	(303) 735-6319
Integrated mmW DF Subsystems & Dual-Polarized Antennas	FY11	FY13	Univ Colorado	Prof. Dejan Filipovic	dejan@colorado.edu	(303) 735-6319
Submarine Buoyant Cable Meta-dielectric Antennas for EW	FY11	FY13	NUWC	Dr. David Tonn	david.tonn@navy.mil	(401) 832-5481
1-110 GHz Two Aperture ESA for Electronic Attack	FY12	FY14	Harris Corp	Dr. Sean Ortiz	sean.ortiz@harris.com	(321) 729-2865
Multifunctional Arrays and Frequency Independent Antennas (MAFIA)	FY10	FY13	Univ Colorado	Prof Dejan Filipovic	dejan@colorado.edu	(303) 735-6319
Conformal Direction Finding Antenna System	FY10	FY13	First RF	Mr. Steve Dawson	sdawson@firstrf.com	(303) 449-5211 x226
Aperture Isolation	FY Start	FY End	Organization	PI	EMAIL	PHONE
Isolation Improve Between Multiple Aperture EA/ES	FY12	FY14	MIT-LL	Dr. Bradley Perry	bperry@ll.mit.edu	(781) 981-0861
Simultaneous Transmit and Receive (STAR) for Look-Through Electronic Attack	FY11	FY15	MIT-LL	Dr. Bradley T. Perry	bperry@ll.mit.edu	(781) 981-0861
Modular, Adaptive, and Multi-function RF Front-end	FY12	FY15	MITRE	Mr. Marcus Glenn	glenn@mitre.org	(703) 983-5803

ES System						
Wideband RF Receivers	FY Start	FY End	Organization	PI	EMAIL	PHONE
Cueing Receiver for Faster EA Response Management	FY08	FY10	Naval Postgrad School	Prof. Philip Pace	pepace@nps.edu	(831) 656-3286
Miniature 2-70 GHz Integrated Optical Channelizer	FY08	FY11	Northrop Grumman	Dr. Akis Goutzoulis	a.goutzoulis@ngc.com	(410) 765-7976
Wideband Photonic Cueing Receiver for ES	FY12	FY14	JHU/APL	Dr. Thomas Clark	thomas.clark@jhuapl.edu	(240) 228-5185
1-110 GHz Photonic Cueing Receiver	FY12	FY15	Northrop Grumman	Dr. Akis Goutzoulis	a.goutzoulis@ngc.com	(410) 765-7976
Extreme Wideband Spatial Spectral Holographic Signal Processor [ONR SBIR Ph 2.5]	FY13	FY14	S2 Corporation	Dr. Kris Merkel	merkel@s2corporation.com	(406) 922-0334
Wideband, High-Dynamic Range, Software Programmable Receiver & Vector Spectrum/Signal Analyzer in a USB Dongle Form-Factor	FY10	FY13	Univ Southern Calif	Prof. Hossein Hashemi	hossein@usc.edu	(213) 740-3596
High Dynamic Range Receiver	FY11	FY13	HRL Laboratories	Mr. Ara Kurdoghlian	ara@hrl.com	(310) 317-5404
ES Components	FY Start	FY End	Organization	PI	EMAIL	PHONE
Wideband GaN EW Support Receiver Components	FY12	FY15	HRL Laboratories	Mr. Ara Kurdoghlian	ara@hrl.com	(310) 317-5404
Miniature Broadband Tunable Filters for EW Receivers	FY12	FY15	BAE/NRL 6851	Mr. Thomas Johnson Dr. Andrew Guyette	thomas1.johnson@baesystems.com andrew.guyette@nrl.navy.mil	(603) 885-6149 (202) 404-4606
Next Gen EW Components Based on Graphene	FY12	FY15	Penn St./NSWC Crane	Dr. Joshua Robinson Dr. Charles Pagel	jrobinson@eoc.psu.edu chuck.pagel@navy.mil	(814) 867-1560 (812) 854-2382

Processing						
ES Processing	FY Start	FY End	Organization	PI	EMAIL	PHONE
Non-Traditional Signal Exploitation using Photonic Processing	FY08	FY11	Montana State Univ	Dr. Randall Babbitt	babbitt@physics.montana.edu	(406) 994-6156
Real-Time EA Effectiveness Monitoring	FY09	FY12	NRL 5760	Dr. Josh Beun	josh.beun@nrl.navy.mil	(202) 404-3803
WB Low Power Cognitive Signal Processing IC	FY12	FY15	HRL Laboratories	Dr. Peter Petre	petre@hrl.com	(123) 317-5919
Wideband RF Processing - Net-Positive Parametric Mixers	FY12	FY15	UC-SD/SPAWAR	Dr. Stojan Radic Mr. Everett Jacobs	sradic@ucsd.edu bill.jacobs@navy.mil	(858) 534-4344 (619) 553-1614
Spatial-Spectral Holographic Rainbow Spectrometer	FY13	FY14	Montana State Univ	Dr. Randall Babbitt	babbitt@physics.montana.edu	(406) 994-6156
CS-based Extremely Wideband Spectral Awareness (EWSA)	FY11	FY13	Gird Systems	Mr. James Caffery Jr.	jcaffery@girdsystems.com	(513) 281-2900 x103
ES Techniques	FY Start	FY End	Organization	PI	EMAIL	PHONE
Digital Directional Correlator	FY08	FY10	Northrop Grumman	Dr. Maury Marks	maury.marks@ngc.com	(410) 765-2952
Direction Finding of LPI Emitters	FY09	FY12	NRL 5722	Mr. Joseph Frankovich	joseph.frankovich@nrl.navy.mil	(202) 4047632
Cooperative Monolithic Distributed Sensors for EW	FY11	FY14	Univ Southern Calif	Prof. Hossein Hashemi	hossein@usc.edu	(213) 740-3596
PerSElve: SEI & Geo-Location in Complex EM Environment	FY11	FY13	Michigan Aero	Dr. David Johnson	djohnson@michaero.com	(734) 975-8777 x140
pDESIST: pseudo-Doppler-Enabled Synthesis Imaging	FY11	FY14	Leidos (formerly SAIC)	Dr. John Kendra	john.r.kendra@leidos.com	(703) 676-1648
Electronic Attack Adaptive-Detector Sidecar	FY11	FY14	MIT-LL	Dr. W. Gregory Lyons	lyons@ll.mit.edu	(781) 981-4705

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EA Processing	FY Start	FY End	Organization	PI	EMAIL	PHONE
Concurrent Multi-Spectral RF Carrier Generator	FY09	FY12	Univ Southern Calif	Prof. Hossein Hashemi	hosseinh@usc.edu	(213) 740-3596
Si-based Monolithic DRFM	FY12	FY15	Univ Southern Calif	Prof. Hossein Hashemi	hosseinh@usc.edu	(213) 740-3596
Wideband Intelligent Signal Estimator (WISER) DRFM	FY12	FY14	NRL 5732	Mr. T. Christopher Moss	tmoss@nrl.navy.mil	(202) 767-2660
Next-Generation EW Processor	FY12	FY13	MIT-LL	Dr. W. Gregory Lyons	lyons@ll.mit.edu	(781) 981-4705
EA Techniques	FY Start	FY End	Organization	PI	EMAIL	PHONE
Integrated On-board / Off-board EA Effectiveness	FY09	FY12	NRL 5743	Mr. Anwar Khan	anwar.khan@nrl.navy.mil	(202) 404-3733
Passive Coherent Location Denial	FY11	FY13	NRL 5730	Mr. Christian Hochuli	christian.hochuli@nrl.navy.mil	(202) 767-3025
Countering LTE and DSA Enhanced LTE Communications	FY10	FY12	Shared Spectrum Co.	Dr. Mark McHenry	mmchenry@sharedspectrum.com	(703) 462-6943
Countering Advanced Threats in Complex RF Environments with Cognitive Techniques	FY13	FY15	Echo Ridge	Mr. John Carlson	john.carlson@echoridgenet.com	(703) 348-3167

EA System						
RF/mmW Transmitters	FY Start	FY End	Organization	PI	EMAIL	PHONE
Compact 25-80 kW ERP Decoy Tx w/ Cont 18-45 GHz Coverage	FY12	FY14	NRL 6800	Dr. Baruch Levush	baruch.levush@nrl.navy.mil	(202) 767-3693
A Digital Transmitter on Chip	FY12	FY14	NRL/MIT-LL	Mr. Joel Goodman Dr. Jim Vian	joel.goodman@nrl.navy.mil vian@ll.mit.edu	(202) 404-2984 (781) 981-3217
Monolithic Software Programmable Wideband Transmitter and Multi-Input Multi-Output Transceiver	FY12	FY15	Univ Southern Calif	Prof. Hossein Hashemi	hosseinh@usc.edu	(213) 740-3596
EA Components	FY Start	FY End	Organization	PI	EMAIL	PHONE
PolyStrata Time Delay Unit	FY12	FY15	Nuvotronics	Mr. Steve Huettner	shuettner@nuvotronics.com	(800) 341-2333 x127
Enabling Technology for High Power mmW on Small Platforms	FY12	FY15	Univ of Colorado	Prof. Dejan Filipovic	dejan@colorado.edu	(303) 735-6319
Multiplexer and Tunable Filters for Channelized Transmitter Architecture	FY10	FY13	NRL 6851	Dr. Andrew Guyette	andrew.guyette@nrl.navy.mil	(202) 404-4606
Multi-Configurable Filters for Wideband Receivers and Transmitters	FY11	FY15	NRL 6851	Dr. Andrew Guyette	andrew.guyette@nrl.navy.mil	(202) 404-4606