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1. N152-081: Synthesis and Realization of Broadband Magnetic Flux Channel Antennas

   Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

   Significant advances have been made recently in the development of magnetic antennas. These antennas are magnetic duals of electric antennas, which allow them to be mounted directly on an aircraft surface. No frequency-dependent backing-cavities are required, which allows true frequency-independent operations. Flux channels in the form of magnetic rings have been shown to replace vertical elements ...

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2. N152-082: Design and Produce Millimeter Wave Dipole Chaff with High Radar Cross Section

   Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

   Current aircraft radio frequency (RF) chaff is made from aluminum coated glass filaments produced in a continuous strand and then cut to lengths that achieve the desired resonance at frequencies in the 2-18 GHz band. The filaments require a slip coating to prevent end welding of fibers when cut, and to minimize clumping when ejected. The typical chaff cartridge can contain millions of these coated ...

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3. N152-083: Synthetic Aperture Radar Approaches for Small Maritime Target Detection and Discrimination

   Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

   Traditionally SAR has been used to provide imagery of fixed structures on land. Objects moving in the scene were unfocused and generally not of value. For large vessels at sea in relatively calm conditions, some advanced focusing algorithms are able to provide high quality imagery but are not useful for small vessels with very dynamic movements. For maritime environments, the community has relied ...

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4. N152-084: Test and Certification Techniques for Autonomous Guidance and Navigation Algorithms for Navy Air Vehicle Missions

   Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

   Many advanced autonomous guidance and navigation algorithms capable of dynamic route re-planning have been developed. The application of such algorithms to Unmanned Air System (UAS) missions has remained limited. This limited application results from multiple factors; however, the greatest obstacle is airworthiness certification. The development of certification methods for these algorithms remain ...

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5. DMEA15B-001: Optimized Scintillator for High Resolution X-ray Imaging at 9keV

Release Date: 04-24-2015Open Date: 05-26-2015Due Date: 06-24-2015Close Date: 06-24-2015

Rapid Integrated Circuit (IC) inspection using x-ray microscopy requires novel x-ray scintillating materials with high efficiency and high spatial resolution. Current scintillator materials, such as Cesium Iodide (CsI), suffer from a trade-off between efficiency and spatial resolution. Novel materials with higher stopping power and light yields are necessary to address the stringent requirements o ...

STTR Defense Microelectronics ActivityDepartment of Defense

6. N152-085: Gallium Arsenide Based 1-Micrometer Integrated Analog Transmitter

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Current airborne military communications and electronic warfare systems require ever increasing bandwidths while simultaneously requiring reductions in space, weight and power (SWaP). The replacement of the coaxial cable used in various onboard RF/analog applications with RF/analog fiber optic links will provide increased immunity to electromagnetic interference, reduction in size and weight, and ...

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7. N152-086: Flight Deck Lighting Addressable Smart Control Modules

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Surface aviation and amphibious assault ships launch and recover aircraft whose pilots typically use Night Vision Devices (NVDs) for night operations. As a result, the NVD flight deck lighting solution requires control and dimming of various individual lighting fixtures and circuits aboard these ships. Digitally addressable control of these lighting fixtures is required in order to dim and/or turn ...

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8. N152-087: Ability for Electronic Kneeboard (EKB) to Communicate and Operate in a Multi- level Security Environment

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

The Electronic Kneeboard (EKB) is currently being developed to enable access to digital publications, tactical imagery, and other dynamic data in all USN and USMC aircraft. This capability will greatly enhance aircrew situational awareness, reduce cockpit clutter, improve precision fire, and enable in-flight mission re-planning. The warfighter would greatly benefit

from a mobile platform capable o ...

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9. N152-088: Infrared Search and Threat Identification

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

A number of thermal imaging devices and sensor systems that are capable of tracking an IR signature exist in the fleet today; however, they do not have the capability to identify the threat level of the designated target. For example, the AN/AAQ-37 Distributed Aperture System (DAS) on the F-35 provides situational awareness, detection, and tracking but not threat identification. The Advanced Targe ...

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10. N152-089: High Peak Power 1.9 um Thulium-Doped Solid-State Lasers for Next-Generation Compact and Robust High Peak-Power Blue Lasers

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

A need exists for high pulse energy high repetition-rate lasers for LIDAR transmitters. LIDAR systems have been shown to be a powerful tool to remotely probe various oceanographic and atmospheric processes. Each system generally requires specialized transmitters at often hard to achieve wavelengths. Often the lasers available to hit these wavelengths are not suited for high peak-power operation. A ...

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