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1. N141-001: Alternative Energy Sources for Heating Rations

   Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

   OBJECTIVE: Develop an alternative method to heat rations for echelon sized units while stationary, on the move and at outlying or remote feeding sites to negate the dependence on fossil fuel technology. DESCRIPTION: The mission of Field Feeding is clearly stated in the Marine Corps Reference Publication 4-11.8A, Marine Corps Field Feeding Program and it reads"The Marine Corps Field Feeding Prog ...

   SBIR Department of DefenseNavy

2. N141-002: Reduced Hazard Antenna

   Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

   OBJECTIVE: Marine Corps Systems Command seeks innovative approaches to provide equivalent or better radiation pattern and omnidirectional gain as existing handheld or manpack radio antennas, while providing high voltage protection to reduce the risk of electrical shocks from low overhead wires for dismounted radio. DESCRIPTION: Marine Corps Systems Command (MARCORSYSCOM) provides radio and ante ...

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3. N141-003: Innovative Signal Processing Techniques for Mitigation of Wind Turbine Farm Interference in Airborne Radar Systems

   Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

   OBJECTIVE: Develop innovative signal processing techniques for the mitigation of adverse effects on airborne radar systems resulting from the interference caused by the large radar cross section of a wind turbine combined with the Doppler frequency shift produced by its rotating blades which impacts the ability of a radar system to differentiate a wind turbine from an aircraft. DESCRIPTION: The ...

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4. N141-004: Fully Integrated Low Size, Weight, and Power (SWaP) and Cost Magnetometers for Air and In-Water Anti-Submarine Warfare (ASW)

   Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

   OBJECTIVE: Develop a low Size, Weight and Power (SWaP) and low cost total field scalar magnetometer with all control electronics fully integrated within the sensor package. The magnetometer is targeted for use in Unmanned Aerial Vehicles (UAVs), Unmanned Undersea Vehicles (UUVs), buoys, in-water arrays, Unmanned Ground Vehicles (UGV), as well as manned platforms. DESCRIPTION: Recent work to re ...

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5. N141-005: Ruggedized Narrow-Linewidth 1550nm Laser

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop and package a high-power, low noise, narrow-linewidth laser for Radio Frequency (RF) photonic link applications on air platforms. DESCRIPTION: New military communications, sensing and surveillance systems require ever-faster real-time acquisition and transmission of electronic signals to achieve continuous sensing of electromagnetic spectrum. For the development and utilizati ...

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6. N141-006: Distributed Synthetic Environment Correlation Assessment Architecture and Metrics

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop an innovative and extensible distributed synthetic environment correlation assessment architecture that can verify correlation between flight simulator visual and sensor databases. DESCRIPTION: Naval/Marine Corps flight simulators are often run in isolation; however, there are growing requirements for distributed networked simulation such as those included in the Aviation Dis ...

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7. N141-007: Automated Warhead Characterization

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop an innovative and efficient low-cost means of measuring full-hemisphere, open-air, warhead fragment mass, geometry, and velocity information during munitions explosions. DESCRIPTION: The present method of warhead characterization is costly, labor intensive, and produces only a piece of the required data. A warhead is placed in the center of an arena test bed consisting of bla ...

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8. N141-008: Power scaling of blue lasers with high peak-power and repetition rate for detection of underwater objects

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop a scalable high peak-power laser solution consisting of either a single laser or multiple beam-combined blue lasers for use as a transmitter source for detection of underwater objects from an aircraft. DESCRIPTION: There is a need for a high peak-power blue laser system solution to be operated in pulsed mode with high repetition rate for detection of underwater objects from a ...

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9. N141-009: Autonomous Environmental Sensor Performance Prediction Tool for Multi-Static Active and Passive Anti-Submarine Warfare (ASW) Systems

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop an autonomous Anti-Submarine Warfare (ASW) sensor performance prediction tool that utilizes measured and predicted ocean environmental data retrieved via a network interface. DESCRIPTION: Air ASW sensor systems like the Multi-static Active Coherent"MAC"(SSQ-125) sonobuoy source and ADAR (SSQ-101A/B) receiver to provide coherent pulses and waveform flexibility like doppler-spe ...

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10. N141-010: Development of Analysis Techniques for Predicting Magnetic Anomaly Detection (MAD) Equipped UAV Performance in Naval Anti-Submarine Warfare Environment.

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop a software simulation tool, or Tactical Decision Aid (TDA), for predicting the Probability of Detection (Pd) of a Magnetic Anomaly Detection (MAD) equipped Unmanned Aerial Vehicle (UAV) against current submarine threats factoring in the complexities of the MAD system performance, magnetic environmental noise, UAV performance, target parameters and Area of Uncertainty (AOU) DE ...

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