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- Title (ascending)
- Open Date (ascending)
- Close Date (descending)
- Release Date (descending)

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Displaying 7 result(s)

1. SOCOM13-001: Nano-scale Coatings for the Protection of Electronics and Sensitive Equipment in Marine Environments

Release Date: 11-16-2012Open Date: 12-17-2012Due Date: 01-16-2013Close Date: 01-16-2013

OBJECTIVE: Research and development of nano-scale coatings for protection of electronics and other sensitive items from seawater and salt fog. DESCRIPTION: Marine (seawater) environments are harsh on equipment, particularly electronics with seawater"s high conductivity leading to short circuits and increased corrosion rates. Typically, electronics and other items that are susceptible to seaw ...

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2. SOCOM13-002: Over the Horizon Underwater Communications

Release Date: 11-16-2012Open Date: 12-17-2012Due Date: 01-16-2013Close Date: 01-16-2013

OBJECTIVE: Communicate from a minimum depth of three (3) meters underwater to overhead SATCOM receiver. DESCRIPTION: Most maritime Tagging, Tracking, and Locating devices operate using acoustic sensors or need to break the surface of the water to communicate. Acoustic devices produce a detectable acoustic signature and are limited on the range between the tracking device and the receiver. ...

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3. SOCOM13-003: Advanced Medical Microelectronics for Use in Remote Austere Environments

Release Date: 11-16-2012Open Date: 12-17-2012Due Date: 01-16-2013Close Date: 01-16-2013

OBJECTIVE: To combine the capabilities of several medical electronics devices into a single device while maintaining portability and ease of use. DESCRIPTION: Current Special Operations Forces (SOF) advanced medical diagnostic equipment is currently accomplished using multiple devices. The focus of the topic is to develop a small ruggedized system capable of consolidating those capabilities ...

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4. SOCOM13-004: Next Generation Portable Power Amplifier

Release Date: 11-16-2012Open Date: 12-17-2012Due Date: 01-16-2013Close Date: 01-16-2013

OBJECTIVE: Develop a next generation light-weight, high-efficiency, man-portable power amplifier for communications. DESCRIPTION: Special Operations Forces (SOF) currently must carry multiple power amplifiers and associated batteries for all required communications equipment to conduct their missions. These portable power amplifiers and batteries add weight, heat, and bulk to an already burd ...

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5. SOCOM13-005: Family of Sub-Sonic Ammunition

Release Date: 11-16-2012Open Date: 12-17-2012Due Date: 01-16-2013Close Date: 01-16-2013

OBJECTIVE: Develop a family of sub-sonic ammunition that has extremely tight velocity standard deviations, is clean burning, will function in gas operated weapons and will be cost effective. Successful completion of this SBIR technology pursuit will improve the survivability of Special Operations Forces during covert operations. DESCRIPTION: Sub-Sonic ammunition has been in use since WWII ...

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6. SOCOM13-006: .50 Caliber Light Weight Precision Ammunition

Release Date: 11-16-2012Open Date: 12-17-2012Due Date: 01-16-2013Close Date: 01-16-2013

OBJECTIVE: Design, develop, and demonstrate an innovative .50 caliber round that is lighter than the current .50 caliber ammunition that users of MK-15 and M107 weapons must carry, that improves the accuracy over the current brass cased Department of Defense Identification Code A606 round using the MK-211 projectile, and to develop a balistically matched non-dud producing training round to allow ...

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7. SOCOM13-007: Portable High Performance Computing and Storage

Release Date: 11-16-2012Open Date: 12-17-2012Due Date: 01-16-2013Close Date: 01-16-2013

OBJECTIVE: Develop a light-weight, low-power man-portable, integrated, non-volatile memory storage and computation device. DESCRIPTION: Traditional and Special Operations Forces (SOF) multi-intelligence collection and analysis activities require the storage and processing of large quantities of data, often in the Terabyte (TB) range. Traditional means of storing and processing the data involv ...

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