2010 CNR Challenge

Next Generation Technologies for Today's Warfighter

Seedling Research Funding

Bring your innovative ideas here and help us uncover the "next big thing." Funding will be provided for innovations that fit the theme of the conference and the six featured science and technology topics

Code 33

Chlorine Resistant Seawater Reverse Osmosis Membranes

Current reverse osmosis membranes degrade on exposure to common disinfectants such as chlorine. The Navy currently uses chlorination to provide a residual oxidant to potable water, but also as a means to control biofouling in various water lines. Chlorine resistant RO membranes would significantly simplify maintenance of shipboard potable water systems.

ONR

Revolutionary Research . . . Relevant Results

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Code 33 Guidelines:

Title: Resistant Seawater Reverse Osmosis Membranes

Objective: Current reverse osmosis membranes degrade on exposure to common disinfectants such as chlorine. The Navy currently uses chlorination to provide a residual oxidant to potable water, but also as a means to control biofouling in various water lines. Chlorine resistant RO membranes would significantly simplify maintenance of shipboard potable water systems.

Description: ONR is looking for new chemistries for seawater reverse osmosis membranes that are highly tolerant of chlorine or other disinfectants.

POC: Dr. Paul Armistead (Code 332)

The 2010 CNR Challenge will award up to 10 awards, each totaling up to $100K, to open funding opportunities for a larger pool of participants. Before submitting your white paper, take time over the course of the 2010 Naval Science & Technology Partnership Conference to meet ONR subject matter experts at the Information Exchange and in breakout rooms to discuss their needs. Submit your idea on site at the Director of Innovation's break-out room (must be on CD). Once received on site, ONR will provide you with a receipt acknowledging your submission. Entries will be reviewed after the conference with all submissions evaluated based on individual merit, applicability, relation to naval energy and research needs.

Specific white paper guidelines and the Award Timeline are available in the Director of Innovation's break-out room.