



# **N857**

# **NAVY EXPEDITIONARY**

# **COMBAT BRANCH**

**Captain Barry Coceano**  
**Branch Head**

**LCDR Nakia Cooper**  
**Requirements Officer**



# Responsibilities

## ➤ Requirements and Action Office for Expeditionary Warfare supporting:

- All Navy Expeditionary Combat Command (NECC) forces
- Explosive Ordnance Disposal (EOD)
- Counter Radio-Controlled Improvised Explosive Device Electronic Warfare (CREW)
- Non-Lethal Weapons (NLW)

## ➤ Recognition of Navy contribution to Irregular Warfare

- "A Balanced Strategy" by SECDEF Gates, *Foreign Affairs* (Feb 09)
- Office of the Secretary of Defense 2010 Defense Budget submission
- 2009 Navy Strategic Plan (NSP)
- 2008 Center for Naval Analysis C-IED Study

**Force Agility to Achieve Global Engagement**



# Where does NECC need your help?



## ➤ Sensor Technology

- ❑ **Unmanned Systems (UAV/USV/UUV)**
  - ❖ More capability in a smaller package in more varied operational environments
  - ❖ User friendly design to capture the skills of technology generation
  - ❖ Inter-operable; enhancing common operating picture and knowledge
  - ❖ Energy efficiency
- ❑ **Standoff Detection**
  - ❖ Persistent ISR applications
  - ❖ Fixed-site, Force Protection, Proliferation Security Initiative, EOD
  - ❖ Counter IED and Chemical, Nuclear, Biological
- ❑ **Enhanced Situational Awareness**



## ➤ Integrated Armor and Lightweight Personal Protection

- ❑ Layered and adaptive protection across spectrum to defeat multiple threats without significant increase to personnel and platform footprint
- ❑ Ground vehicles, green water-borne platforms, work sites
- ❑ Plug and play, able to shed armor when not needed



## ➤ Adaptive, Deployable Networks

- ❑ Incorporate wireless technology for the battlefield
- ❑ Optimize logistic footprint
- ❑ Interoperability with the Intra-Agency, local governments, NGO's

## ➤ Enhanced Cultural Awareness and Language Translation

- ❑ CBTs and field-employable multi-language translation tool
- ❑ Training enablers to facilitate Security Force Assistance in multiple operating areas



# Where does EOD need your help?



## ➤ Unmanned Systems

- UUV/UAV/Ground Robotics communications enhancement
- Underwater vehicle sensor and neutralization technology
- Energy Efficiency
- Ground Robotics advancements
  - ❖ Reduce time-on-target
  - ❖ Light weight systems for agile, dismounted ops without capability loss
  - ❖ Enhance manipulation capability
  - ❖ Extend operation life with advancements in power generation/supply



## ➤ Personnel Protection

- Ultra light and agile body armor
- Next generation bomb suit technology



## ➤ Standoff Detection and Disruption

- Determine the threat before going into harms way
- Enhance survivability
- Defeat the Network\*
- Spectrum of Effects: Non-kinetic, low-order, high-order neutralization

## ➤ Forensics

- Radiographic systems
- Post Blast investigation
- Wireless transmission/reception\*





# Where does CREW need your help?



## ➤ Antennas and Amplifiers

- Environmental efficiency
- Size and weight
  - ❖ Dismounted applications
  - ❖ Future combat vehicle families
  - ❖ Fixed site applications
- Energy efficiency

## ➤ Receivers/Processing/Modulators/Integration

- Open architecture to enable continuous system enhancement

## ➤ Common Timing And Electromagnetic Compatibility

- Interoperability across DoD Electronic Warfare systems
- Develop systems permitting span of C5ISR capabilities

## ➤ Additional Technology, Information, Recommendations

- <http://www.onr.navy.mil/02/BAA>
- <https://bids.acqcenter.com/jieddo/Portal.nsf/Start?ReadForm>

**CREW is transitioning to N2/N6**

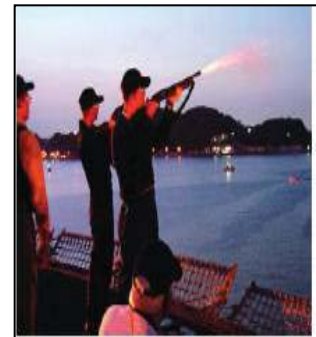




# Where does Navy NLW need your help?



- Stand off vessel stopping
- Stand off vehicle stopping
- Reducing the size and weight and cost of directed energy systems
- Integration of directed energy systems into shipboard platforms as part of their self defense systems
- Determining contact intent



# Partnering with Industry to Support the Force



Your technological efforts to assist our needed capability advancements directly support Expeditionary Warfare's Resource Strategy for Programs!



**"HELP US HELP YOU...!"**



# Points of Contact



## NECC capability development:

MESF	LCDR Nakia Cooper	nakia.cooper@navy.mil
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## JCREW/JSEOD capability development:

JEOD/JCREW	LCDR Gareth Healy	gareth.healy@navy.mil
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JCREW	John Stansbury	john.stansbury@navy.mil

## Non-lethal Weapons capability development:

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