Charleston Defense Contractors Association
Small Business and Industry Outreach Initiative Symposium #51
10 July 2019

Mr. Peter C. Reddy, SSTM
NIWC Atlantic
Executive Director (A)
SPAWAR Changes Name to Naval Information Warfare Systems Command (NAVWARSYSCOM) — Aligns Identity with Mission

“This new name more accurately describes the full totality of the mission, supporting naval warfare -- from seabed to space.“ – ADM Richardson

“In this era of great power competition, information is a fundamental element of warfare, an essential concept of the Navy’s strategy, and a warfare area that transcends the traditional domains of air, sea, land and space. This name change underscores the importance of information warfare in providing our fleet with an unfair advantage in today’s complex and increasingly competitive security environment.” – RADM Becker

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Key Technical Capabilities
- Surface Ship and Submarine C4I test and integration facilities
- NAVWAR National Security Operations Center/Cyber Forensics, Vulnerability Assessment Team
- Cyber Forensics Criminal Investigations Laboratory
- Cyber Computer Network Defense Laboratory
- DoD Component Enterprise Data Center
- Commercial and DoD Satellite Comms production and installation
- Vehicle C4I systems integration, testing and production
- Electromagnetic Interference and Electromagnetic Compatibility testing
- Global Distance Support Help Desk
- Air Traffic Control systems development and installation
- Marine Corps Installations Command Electronic Security Systems

Serving our Nation by delivering information warfare solutions that protect national security.
Includes: comms systems (radios), networking systems (routers/switches), cyber operations (red team/forensics/ network defense), intelligence, surveillance, reconnaissance (sensors/decision support applications), business systems (benefits/personnel) and information security.

FY 2018
- Primarily a Navy Working Capital Fund (NWCF) Organization
- $2.93B Total Obligation Authority (FY18)
- $1.6B Total Obligations
  - 41% Small Business
  - 400+ Small Businesses
  - 91% Competition
- New Orders
  - 67% Naval
  - 23% Joint
  - 10% Non DoD
- Workforce (FTEs)
  - 73% Naval
  - 24% Joint
  - 3% Non-DoD
- 5 Departments
- 120 IPTs
- 436 Projects

May 2019
- Top Sponsors
  - NAVWAR & PEOs
  - MARCORSYSCOM
  - NAVSEA & PEOs
  - Defense Health
  - NAVAIR & PEOs
- 4,597 Gov’t, 117 Mil.
- 248 New Professionals
- 85 Student Interns
- 13 SSTMs
- Advanced Degrees
  - 58 PhDs
  - 1,258 Masters
  - 2,062 Bachelors
- Top Occupational Series
  - IT Specialist (20%)
  - Electronics Engineer (13%)
  - Computer Scientist (12%)
  - Electronics Tech (9%)
  - Mgmt & Prog Analyst (8%)

EOM May 2019

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The mission of the Department of Defense is to provide a lethal Joint force to defend the security of our country and sustain American influence abroad.

The mission of the Navy is to maintain, train and equip combat-ready Naval forces capable of winning wars, deterring aggression and maintaining freedom of the seas.

The mission of Naval Information Warfare Center Atlantic is to serve our Nation by delivering information warfare solutions that protect national security.

Our Vision: **WIN THE INFORMATION WAR**
Bigger — Better — Networked — Talented — Agile — Ready

Urgency to move faster, take advantage of Innovation and Advancing Technologies

National Defense Strategy
- Long term strategic competition with China and Russia
- Combat-credible forward presence in Asia and Europe
- Sustainable missions in Middle East and Central Asia
- Dynamic force posture and employment
- Lethal resilient and Agile Joint Force

A Design for Maintaining Maritime Superiority 2.0
- Strengthen Naval power at and from the sea
- Achieve high velocity outcomes
- Strengthen our Navy team for the future
- Expand and strengthen our network of partners

“the Navy the Nation Needs” CNO John M. Richardson

Restore Readiness — Increase Lethality — Build Capacity

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“If you’re asking me if I think we’re at war, I think I’d say yes”…We’re at war right now in cyberspace. We’ve been at war for maybe a decade. They’re pouring oil over the castle walls every day.”

--Gen Robert Neller, Commandant, USMC, 21 Feb 2019

The review specifically examined five critical pillars key to cybersecurity readiness:
1. Culture
2. People
3. Structure
4. Processes
5. Resources
Defense Industrial Base (DIB)

Reinforcing the nation’s cybersecurity

The SecNav CRR and guidance from ASN(RDA) directs use of CDRLs on existing and new contracts to reinforce DIB compliance and associated security controls

- DFARS clause 252.204-7012
  - Safeguarding Covered Defense Information and Cyber Incident Reporting
- NIST SP 800-171
  - Protecting Controlled Unclassified Information in Nonfederal Information Systems and Organizations

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“Fundamental to our character as a Maine Corps is our role as the Nation's force-in-readiness. We must continue to be ready for operations across the range of military operations (ROMO). At the same time, we recognize the current and future fight may not be what we experienced in the past. It will encompass not just the domains of land, air and sea, but also space and the cyber domain. It will include information operations and operations across the electromagnetic spectrum. It will involve rapidly changing and evolving technologies and concepts, which will force us to be more agile, flexible and adaptable. Most importantly, it will require Marines who are smart, fit, disciplined, resilient, and able to adapt to uncertainty and to the unknown.”

General Robert B. Neller
37th Commandant of the Marine Corps

“The speed and reach at which information flows through the Information Environment has fundamentally changed the character of modern warfare. This evolution is not solely limited to the Marine Corps, but applies to the world as a whole, including our adversaries. This mission requires global integration of the Information Environment - aggregating people, processes, capabilities, and data to achieve decision-making superiority and share information and knowledge across the Marine Corps and with Joint, Interagency, and Coalition Partners. The internal and external forces transforming Operations in the Information Environment are profound, powerful, and continuously accelerating. The end state of the MCIEE vision is the future state — a state where we are continuously advancing, learning, adapting, and evolving to maintain information superiority and enhanced lethality.”

LtGen L. E. Reynolds
Deputy Commandant for Information
Technology Growth Areas (TGAs)

**On-Demand Manufacturing:** Produce products and/or components, when or as they are required at the point of use, using additive and/or traditional manufacturing methods. (Steve Lariviere)

**Model-Based Systems Engineering (MBSE):** Technologies used to support the development, management and application of virtual constructs of varying fidelity across the spectrum of systems engineering. (David Smoak)

**DevSecOps:** Refers to replacing siloed Development, Security and Operations to create multidisciplinary teams that collaborate with shared and efficient practices and tools. (Kathryn Murphy)

**Enterprise Resource Tools:** Aims to improve enterprise's productivity and efficiency by providing business logic support functionality. (Kathryn Murphy)

**Assured Communications:** Addresses the demand for resilient, and sometimes covert, wired and wireless communications in degraded and/or denied environments. (Ann Rideout)

**Cloud Computing:** IT modernization and digital transformation for resilient infrastructure, platform and software services. (Ann Rideout)

** Mobility:** Provide Wireless Technology and enterprise access for the warfighter to engage with a mobile environment and applications, anytime, anyplace (Ann Rideout)

**Data Science and Analytics:** Provide warfighters with disruptive analytics-driven, data-informed, and technology-empowered capabilities to drive decision advantages and optimal mission outcomes. (Rob Keisler)

**Internet of Things (IoT) and Embedded Systems:** Provide awareness to the warfighter at the edge by connecting devices embedded with state-of-the-art sensors, software, and electronics. (Rob Keisler)

**Cyber Warfare:** Ensures availability, integrity, authentication, confidentiality and nonrepudiation of data sources. (Erick Fry)

**Autonomy:** Enabling systems to adapt their actions to changes in their mission and operating environment without the intervention of a human operator. (Dr. Suzanne Huerth)

The TGAs represent technology areas, disciplines and associated culture changes we are targeting to become future command core competencies.
- Co-Lead with Carderock, Keyport, Port Hueneme
- 9 Technologies Entered (86 total)
- OPNAV N9 / DC CD&I / DASN(RDT&E) Championed Task Force
- Initiating a Multi-Year Prototyping and Experimentation Campaign for a emerging and priority warfighting concept
- Piloting new acquisition authorities, methods and tools
  - Tactics and Technology Exploration and Experimentation (TNTE2)
  - Middle-Tier Acquisition (NDAA16 Section 804)
  - Commercial Solutions Opening (CSO)

**Execute highly valued mission threads with emerging technologies, in Expeditionary Advanced Basing Operations (EABO), Littoral Operations in a Contested Environment (LOCE) and Distributed Maritime Operations (DMO) concepts**


- July – Camp Lejeune

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DoD and the Navy has a clear strategy for what is needed now and for the future.

NIWC Atlantic
FY 19 Execution Plan
Clear strategy to execute for the National and Navy strategy.

We can’t execute without support of the defense industry.

16 June 2019
FY19 Small Business Targets and Achievements

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Engagements with Industry and Academia

▼ Formal Initiatives with Industry
- Contracts Industry Council: CHAS (bimonthly)
- Industry Days CHS/HR (As Required)
- Technology Exchanges CHS/HR (Qtr)
- Small Business Industry Outreach Initiatives (SBIOI): CHAS (Qtr)
- Women in Defense Speed Networking: CHAS (Qtr)
- NOLA SBIOI: NOLA (Annually)
- Tidewater Assoc. of Service Contractors SBIOI: HR (Annually)
- AFCEA WEST: SD (Annually)
- DoN Gold Coast: SD (Annually)
- Sea Air Space: DC (Annually)
- Salute to Small Business (SBA): Columbia, SC (Annually)
- ONR S&T: DC (Annually)
- C5ISR: CHAS (Annually)
- Society of Military Engineers (SAME) SB Conference CHAS (Annually)
- SC Research Authority (SCRA) SB Outreach: CHAS (As Requested)
- Small Business Dev. Center Training: CHS/NOLA (Qtr)
- Monthly Industry Luncheons (As Requested)

▼ Informal Initiatives with Industry
- Weekly one-on-one meetings (as requested) in conjunction with the Small Business Development Center: CHS/NOLA
- Daily emails/calls

Engagements for innovative solutions and improvements in delivery and performance

Industry Resources
For the innovators
http://www.defenseinnovationmarketplace.mil/navy.html

Doing Business with NAVWAR
NAVWAR e-Commerce Central (E-CC)
https://e-commerce.sscno.nmci.navy.mil

NIWC Atlantic Public Page
http://www.public.navy.mil/spawar/Atlantic/Pages/ForIndustry.aspx

▼ Formal Initiatives with Academia
- Cooperative Research and Development Agreements (as required)
- Partnership Intermediary Agreements (as required)
- Patent License Agreements (as required)
- Commercial Service Agreements (As required)
- Educational Partnership Agreements
IWRP Quarterly Industry Day
This event is open to ALL Government, Military and IWRP Consortium Members.

Wednesday, 14 August 2019
Fredericksburg Expo Center, 2371 Carl D. Silver Parkway, Fredericksburg, VA 22401

Can’t attend in person? Register and Select WEBCAST

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<tr>
<td>0800</td>
<td>Admin / Agenda Overview (*Begin Webcast)</td>
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<td>Opening Remarks</td>
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<td>Begin On-site Q&amp;A Period (*End Webcast)</td>
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<td>Government One-on-One Sessions Commence</td>
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<td>BIDS Training / Collaboration Database Training for Consortium Members</td>
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For more information / latest agenda and to register please visit
https://events.bizzabo.com/IWRPQID3
Serve our Nation by delivering information warfare solutions that protect national security.

WIN THE INFORMATION WAR.

NIWC Atlantic is part of the Naval Research & Development Establishment (NR&DE)

Web: https://www.public.navy.mil/spawar/Atlantic  Facebook: https://www.facebook.com/spaceandnavalwarfaresystemscommand
Glassdoor: https://www.glassdoor.com/Overview/Working-at-SPAWAR-Systems-Center-Atlantic-EI_IE638508.11,41.htm
SPAWAR Contract Directorate Office: https://e-commerce.sscno.nmci.navy.mil

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