It is GREAT to be HERE!

Tidewater Association of Service Contractors
NIWC Atlantic Information Day

Peter C. Reddy, SSTM   NIWC Atlantic, Deputy Executive Director
Naval Information Warfare Center Atlantic

Tidewater Association of Service Contractors
NIWC Atlantic Information Day
11 June 2019

Mr. Peter C. Reddy, SSTM
NIWC Atlantic
Deputy Executive Director
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

NIWC Atlantic

Mission: Serving our Nation by delivering information warfare solutions that protect national security. Includes: communication 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.
NIWC Atlantic By the Numbers

Resources (FY18)
- Primarily a Navy Working Capital Fund (NWCF) Organization
- $2.93B Total Obligation Authority
- $1.6B Total Obligations
  - 41% Small Business
  - 400+ Small businesses
  - 91% Competition
- Service Task Order Award
  - $5.3M Avg. Ceiling
  - $794K Avg. Obligated
- New Orders
  - 67% Naval
  - 23% Joint
  - 10% Non DoD
- Workforce (FTEs)
  - 73% Naval
  - 24% Joint
  - 3% Non-DoD

Workforce
- 4,597 Civil Service
- 117 Military
- ~9,000 from Industry
- 53% in Science and Engr. Occupational Series
- 248 New Professionals
- 85 Student Interns
- 13 SSTMs
- Education
  - 57 PhDs
  - 1,233 Masters
  - 2,023 Bachelors

Teams
- 5 Departments
- 120 IPTs
- 436 Projects

Top Sponsors
- SPAWAR & PEOs
- MARCORSYSCOM
- NAVSEA & PEOs
- Defense Health
- NAVAIR & PEOs

Top Occupational Series
- IT Specialist
- Electronics Engineer
- Computer Scientist
- Mgmt & Prog Analyst
- Electronics Tech

11 yrs. average service
46 yrs. average age

EOM May 2019

## Organized Around Teams

### Integrated Product Team (IPT) competencies cooperatively functioning together to produce goods and services

<table>
<thead>
<tr>
<th>Departments (cost, schedule and performance)</th>
<th>IPT</th>
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<th>IPT</th>
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<tbody>
<tr>
<td><strong>Fleet C4I and Readiness</strong></td>
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<tr>
<td>Charlie Adams</td>
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<tr>
<td><strong>Expeditionary Warfare</strong></td>
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<tr>
<td>Kevin Charlow</td>
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<tr>
<td><strong>Enterprise Systems</strong></td>
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<tr>
<td>Patrick Fitzgerald</td>
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<tr>
<td><strong>Shore C2ISR and Integration</strong></td>
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<tr>
<td>Bruce Carter</td>
<td></td>
<td></td>
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<tr>
<td><strong>Science and Technology Department</strong></td>
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<td></td>
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<tr>
<td>Dr. Suzanne Huerth</td>
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### 5 Depts — 120 IPTs — 436 Projs

### Top Occupational Series

- IT Specialist (20%)
- Electronics Engineer (13%)
- Computer Scientist (12%)
- Electronics Tech (9%)
- Mgmt & Prog Analyst (8%)

### Competencies (people, processes and tools)

- 1.0 Finance
  - Virginia Pitts and Tony Jones
- 2.0 Contracts
  - Steve Harrig
- 3.0 Office of Counsel
  - Barbara Shestko
- 4.0 Logistics & Life Cycle Engineering
  - Brad Holsington
- 5.0 Engineering
  - Frank McAlhany (A)
- 6.0 Program & Project Mgmt
  - Pete Van
- 7.0 Science & Technology (includes Work)
  - Dr. Suzanne Huert
- 8.0 Corporate Operations
  - Dave Monahan

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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
"Fundamental to our character as a Marine 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
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.

**Industry:**
- Match and deliver the Navy’s demand for new technologies and equipment.

**Product:**
- Develop and deliver capabilities that expand our information warfare advantage.

**People:**
- Recruit, develop and retain a credentialed workforce to meet technical requirements for today and tomorrow.

**Process:**
- Advance efficiency and enhance effectiveness of processes to accelerate capability delivery and improve employee experience.

Ensure the growth and health of technical knowledge and skills.

Improve planning and communication. Keep lines of communication open, deliver on time.
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)
ANTX East – Fight the Naval Force Forward

- 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
IWRP uses an alternative acquisition method called an OTA (Other Transaction Authority) to:

- Greatly increase speed to award
- Reduce barriers to competition
- Increase access to innovative commercial solutions
- Leverage advanced commercial technologies

10 U.S.C. § 2371b authorizes DoD to carry out transactions for prototype projects other than a procurement contract, grant, or cooperative agreement

Enables rapid research for IW
Prototype projects in the area of IW
Increases access to innovative commercial solutions for defense requirements
Fosters innovation with non-traditional industry partners
Allows Prototype consideration through Industry initiated Ideas

Focusing on underlying technologies that advance Naval information warfare capabilities through a consortium that can support research, development and prototyping

Warfighter Needs
Policies and Guidance
Commercial & Investment Sector

IWRP
For the advancement of IW Technologies to the Warfighter

Technology Growth Areas
Emerging Technology Assessment

Information Warfare Research Project (IWRP)
## FY19 Small Business Targets and Achievements

![Bar chart showing percent small business for different categories.]

### Percent Small Business

<table>
<thead>
<tr>
<th>Category</th>
<th>Target</th>
<th>Achievement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small Business Prime</td>
<td>39.27%</td>
<td>39.11%</td>
</tr>
<tr>
<td>Small Disadvantaged Business</td>
<td>17.7%</td>
<td>19.36%</td>
</tr>
<tr>
<td>Women Owned Small Business</td>
<td>11.37%</td>
<td>12.69%</td>
</tr>
<tr>
<td>HUB Zone</td>
<td>1.55%</td>
<td>1.44%</td>
</tr>
<tr>
<td>Service Disadvantaged Veteran Owned Small Business</td>
<td>5.42%</td>
<td>5.32%</td>
</tr>
</tbody>
</table>

### Dollars obligated

<table>
<thead>
<tr>
<th>Category</th>
<th>31 May 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>SB</td>
<td>$272,882,833.</td>
</tr>
<tr>
<td>SDB</td>
<td>$138,539,618</td>
</tr>
<tr>
<td>WOSB</td>
<td>$87,339,099</td>
</tr>
<tr>
<td>HUB Zone</td>
<td>$5,138,119</td>
</tr>
<tr>
<td>SDVOSB</td>
<td>$10,014,158</td>
</tr>
</tbody>
</table>

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 SPAWAR
SPAWAR 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
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/spaceandnavalwarfaresystemsccommand
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