State of the Center
FY20 End of Year

27 January 2021

Mr. Bill Bonwit
Executive Director
NIWC Pacific
Our Mission

From Concept to Capability via...

Research, development, engineering, and support of integrated C4ISR, cyber, and space systems across all warfighting domains, and to rapidly prototype, conduct test and evaluation, and provide acquisition, installation, and in-service engineering support.
NAVWARSYSCOM Organization

**COMMANDER**
RADM D.W. Small
Executive Director
John Pope

**1.0 – Finance**
Steve Dunn

**2.0 – Contracts**
Nancy Gunderson

**3.0 – Legal**
Amy Weisman

**4.0 – Logistics & Fleet Support**
Dr. William Leubke

**5.0 – Engineering**
RDML Ruttenberg
Rob Wolborsky

**6.0 – Program & Project Mgmt**
Craig Madsen

**7.0 – Science & Technology**
Carly Jackson

**8.0 – Corporate Operations**
Art Sterrett

**Echelon III Activities**

**NAVWARSYSCOM Space Field Activity**
CAPT Rob Berner, CO
Lisa Ramsey, ED (Acting)

**Naval Information Warfare Center Pacific**
(Working Capital Fund)
CAPT Andrew Gainer USN, CO
Bill Bonwit, ED

**Naval Information Warfare Center Atlantic**
(Working Capital Fund)
CAPT Wesley Sanders, CO
Pete Reddy, ED

**PEO C4I & Space Systems**
RDML Kurt Rothenhaus
Lisa Ramsey (Acting)

**PEO Digital**
Ruth Youngs-Lew

**PEO MLB**
Les Hubbard
Our People Are Our Greatest Strength

**CIVILIANS** 5,258
- Scientists & Engineers 2,566
- Tech Specialists 1,087
- S&E Technicians 355
- Admin Professionals 1,060
- General Support 163
- SES / ST / SSTM / SL 27

**MILITARY** 222
- Enlisted 162
- Officers 60

**TOTAL** 5,480

New Professional Program:
- ~3,514 applicants for 71 positions
- Average GPA 3.42

Highly credentialed, educated workforce
- 206 PhDs
- 1,523 Masters

4,342 SCI Clearances
- 2,512 Civil Servants & Military
- 1,830 Contractors

FY20 = $3.3B Total Obligation Authority

~ 32% of workforce: Active Duty, Reservists, Veterans
~ 535 Civilians & Military Directly Supporting C4ISR with the Fleet Around the World

Distribution Statement A: Approved for public release; distribution unlimited.
Capabilities – Across the Full Life Cycle

Today
The Navy in Operation
Installation and Support
- Automated Production, Installation, & In-Service Support
- Marine Mammals
- Networks

Tomorrow
The Navy in Construction
Engineering, Development, Test and Evaluation
- C4ISR for Unmanned Vehicles
- Overmatch Software Armory Compile to Combat
- Integrated Cyber Operations
- Live Virtual Constructive Simulations

Future
The Navy in Planning
Science and Technology
- Small Satellite Communications
- Super Swarms
- Graphene
- Solid State Laser Atmospherics
- Artificial Intelligence / Machine Learning
- Quantum

NIWC Pacific
Distribution Statement A: Approved for public release; distribution unlimited.
## 2020 Significant Awards

### Command Overview

**Distribution Statement A: Approved for public release; distribution unlimited.**

**NIWC Pacific**

**FY20**

**PACIFIC**

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**ASN RD&A Dr. Delores M. Etter**

Top Scientists & Engineers of the Year Awards

Team Awards: Non GPS Aided Positioning and Timing for Surface Ships Future Naval Capacity Team, Rapid Response and Integration Team, Teams Collaborating Across Naval R&D Establishment/Maritime Test Bed Team

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**CDR Benjamin Cone, Admiral Stan Arthur**

Military Logistician of the Year

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**Phillip Baptiste**

2020 BEYA STEM Award

---

**Dr. Kristin Holzworth**

NDIA A. Bryan Lasswell Award

---

**Andy Kho & Christina de Jesus**

2020 Society of Asian Scientists & Engineers

---

**Mr. Nicolas Jenkins**

AFCEA Meritorious Rising Star Award for Achievement in Engineering

---

**Ms. Taneka Lewis**

2020 Women of Color - Technology Rising Star Award

---

**Mr. Edgar Teruel**

ASN Financial Mgmt & Comptroller Achievement Award

---

**Dr. Sara Wheeland**

2020 Women Engineers (WE) Local New Emerging Leader in Technology & Engineering (ELITE) Award

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**William Joo & Oreta B. Stinson**

Small Business Advocate Award

---

**Dr. Carlos Torres**

HENAAC Most Promising Engineer Advanced PhD Award

---

**Dr. Kristin Holzworth**

NDIA A. Bryan Lasswell Award

---

**Mr. Nicolas Jenkins**

AFCEA Meritorious Rising Star Award for Achievement in Engineering
End of Year Snapshot
Increasing Customer Demand

FY20 CUSTOMERS

- DARPA: $237M
- Other DoD: $561M
- Non DoD: $129M
- NAVAIR/PEOs: $108M
- NAVSEA/PEOs: $305M
- NAVWAR/PEOs: $1,137M
- Other Naval: $692M
- Mission Funded: $8M
- ONR: $108M
- DARPA: $237M
- Other DoD: $561M
- Non DoD: $129M
- NAVAIR/PEOs: $108M
- NAVSEA/PEOs: $305M
- NAVWAR/PEOs: $1,137M
- Other Naval: $692M
- Mission Funded: $8M
- ONR: $108M

FY20 FUNDS TYPE

- Procurement: $951M
- O&M: $877M
- RDT&E: $1,082M
- Non DoD: $129M
- Other DoD: $238M
FY20 Contracts

TOTAL CONTRACTS

<table>
<thead>
<tr>
<th>Competition:</th>
<th>Target – 80%. Achieved 77% (Dollars)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active contracts:</td>
<td>371 (D, C, and grants only)</td>
</tr>
<tr>
<td>Firms awarded contracts:</td>
<td>905 Different firms were awarded contracts &amp; orders (including simplified acquisitions)</td>
</tr>
</tbody>
</table>

Small Business Goals

<table>
<thead>
<tr>
<th>TYPE</th>
<th>Achieved</th>
<th>Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small Business Awards</td>
<td>38.5%</td>
<td>36.77%</td>
</tr>
<tr>
<td>HUBZone Small Businesses</td>
<td>2.26%</td>
<td>1.69%</td>
</tr>
<tr>
<td>Disadvantaged Small Business</td>
<td>12.88%</td>
<td>13.26%</td>
</tr>
<tr>
<td>8(a) Small Business</td>
<td>4.02%</td>
<td>N/A</td>
</tr>
<tr>
<td>Woman-Owned Small Business</td>
<td>6.39%</td>
<td>7.08%</td>
</tr>
<tr>
<td>Service-Disabled Vet-Owned Small Business</td>
<td>5.31%</td>
<td>3.62%</td>
</tr>
</tbody>
</table>

Total Amount Obligated $1.5B
### FY20 Top 25 Contractors (based on $ New Actions)

<table>
<thead>
<tr>
<th>Contractor</th>
<th>Dollars Obligated</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 SCIENCE APPLICATIONS INTERNATIONAL CORPORATION</td>
<td>$153,187,851</td>
</tr>
<tr>
<td>2 BOOZ ALLEN HAMILTON INC</td>
<td>$96,969,206</td>
</tr>
<tr>
<td>3 SERCO INC.</td>
<td>$91,892,260</td>
</tr>
<tr>
<td>4 KOAM ENGINEERING SYSTEMS, INC.</td>
<td>$56,102,240</td>
</tr>
<tr>
<td>5 NORTHRUP GRUMMAN SYSTEMS CORPORATION</td>
<td>$34,276,204</td>
</tr>
<tr>
<td>6 VT MILCOM INC.</td>
<td>$33,848,064</td>
</tr>
<tr>
<td>7 TACTICAL ENGINEERING &amp; ANALYSIS, INC.</td>
<td>$32,706,409</td>
</tr>
<tr>
<td>8 LEIDOS, INC.</td>
<td>$31,775,102</td>
</tr>
<tr>
<td>9 INNOVASYSTEMS INTERNATIONAL, LLC</td>
<td>$30,673,240</td>
</tr>
<tr>
<td>10 NATIONAL MARINE MAMMAL FOUNDATION, INC.</td>
<td>$27,014,172</td>
</tr>
<tr>
<td>11 PERATON INC.</td>
<td>$24,700,498</td>
</tr>
<tr>
<td>12 CENTURUM INFORMATION TECHNOLOGY, INC.</td>
<td>$23,145,234</td>
</tr>
<tr>
<td>13 CSRA LLC</td>
<td>$22,803,461</td>
</tr>
</tbody>
</table>

**Indicates Small Business Categorization**
FY20 Top 25 Contractors (based on $ New Actions) cont’d

<table>
<thead>
<tr>
<th>Contractor</th>
<th>Dollars Obligated</th>
</tr>
</thead>
<tbody>
<tr>
<td>14 INSIGHT PUBLIC SECTOR, INC.</td>
<td>$22,450,748</td>
</tr>
<tr>
<td>15 GEOCENT, L.L.C.</td>
<td>$20,642,885</td>
</tr>
<tr>
<td>16 ALUTIQ INFORMATION MANAGEMENT, LLC</td>
<td>$20,298,981</td>
</tr>
<tr>
<td>17 LAFAYETTE GROUP, INC.</td>
<td>$17,827,058</td>
</tr>
<tr>
<td>18 LOCKHEED MARTIN CORPORATION</td>
<td>$17,328,716</td>
</tr>
<tr>
<td>19 RAYTHEON BBN TECHNOLOGIES CORP.</td>
<td>$15,948,712</td>
</tr>
<tr>
<td>20 HII FLEET SUPPORT GROUP LLC</td>
<td>$14,337,685</td>
</tr>
<tr>
<td>21 ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI</td>
<td>$13,510,541</td>
</tr>
<tr>
<td>22 LGS INNOVATIONS LLC</td>
<td>$13,335,041</td>
</tr>
<tr>
<td>23 FCN, INC.</td>
<td>$12,819,509</td>
</tr>
<tr>
<td>24 FORWARD SLOPE INCORPORATED</td>
<td>$12,509,411</td>
</tr>
<tr>
<td>25 PRISM MARITIME LLC</td>
<td>$12,315,777</td>
</tr>
</tbody>
</table>

Indicates Small Business Categorization
## FY20 Top 10 Small Business Contractors ($ New Actions)

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<tr>
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<td>1  KOAM ENGINEERING SYSTEMS, INC.</td>
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<td>9  PRISM MARITIME LLC</td>
<td>$12,315,777</td>
</tr>
<tr>
<td>10 AGILE DEFENSE, INC.</td>
<td>$11,856,461</td>
</tr>
</tbody>
</table>
Intellectual Capital and Partnerships – Industry and Academia

Partnering in Education and Community Outreach

Via our Outreach Programs 692 NIWC Pacific Personnel have engaged 7,028 Students

<table>
<thead>
<tr>
<th>PATENTS</th>
<th>FY20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disclosures</td>
<td>93</td>
</tr>
<tr>
<td>Patents Filed</td>
<td>46</td>
</tr>
<tr>
<td>Patents Issued</td>
<td>81</td>
</tr>
</tbody>
</table>

Technology Transfer

▼ Promotes innovation and creativity with NIWC Pacific technology through working relationships with industry and academia
▼ Important pathway to move Navy innovation from lab to market and ultimately the warfighter

CRADA - Cooperative Research and Development Agreement

▼ FY20: 59 Active CRADAs; 39 CRADA Actions
▼ Establish and foster R&D partnerships with industry and academia, allowing parties to share R&D resources, personnel, equipment and costs, enabling development of new capability, technology, IP

Eight Southern California companies are using NIWC Pacific technologies.

<table>
<thead>
<tr>
<th>PUBLICATIONS</th>
<th>FY20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Journal Article</td>
<td>119</td>
</tr>
<tr>
<td>Conf. Papers</td>
<td>211</td>
</tr>
<tr>
<td>TRs/TDs</td>
<td>82</td>
</tr>
</tbody>
</table>

Distribution Statement A: Approved for public release; distribution unlimited.
Transforming Our “Users’” Experience

Unreliable and inconsistent
Unreliable and inconsistent
Wastes my time
Wastes my time
Tied to my desk
Tied to my desk
Clunky and outdated
Clunky and outdated
Requires training
Requires training
Black box
Black box

Reliable and consistent
Reliable and consistent
Respects my time
Respects my time
Anytime and anywhere
Anytime and anywhere
Modern and lethal
Modern and lethal
Intuitive
Intuitive
Responsive and transparent
Responsive and transparent

Installer
Installer
Trainer
Trainer
Operational User
Operational User
Maintainer
Maintainer

Taking Pride in the User Experience We Provide
Taking Pride in the User Experience We Provide
Insights for the future

▼ Information Warfare is a primary warfighting domain
  ▪ Non-kinetic fires

▼ Our role is to drive the R&D, engineering, delivery and sustainment for IW systems

▼ Increased demand for enterprise engineering, rapid prototyping and experimentation, system “toughness”

▼ Transforming the User Experience
  ▪ Automation
  ▪ Elegant Engineering

▼ Continued focus on autonomy, ML, ISR, networks, AI / automated decision support

▼ Culture built on trust, empathy, unity of purpose, and love for the team and everyone on it

Bringing the Power of Information to the Fight!
the future of C4ISR starts here