



Carderock Engineers 'Sprint' to Develop Critical Software

Page 4

Inside:

Calendar of Events
Perspectives
In the Spotlight
In Memoriam
In the Know
All-Hands

p. 2
p. 3
p. 4-5
p. 6
p. 6-11
p. 12-15

Follow us on:



May 12 – Data Analytics Community of Practice meeting featuring Trish McCarthy (Code 104) on NSWC Carderock’s SEATech computing resources – 1-2 p.m. EDT – DCS link (presentation only): <https://conference.apps.mil/webconf/DASCoPQrtly>; Dial-in/ phone bridge number: 1-888-607-7854, passcode 8261949# – POC Trish Shields, Code 882, or Cyrus Hossainian, Code 863

May 13 – Extended Term Training (ETT) program information session – 10-11 a.m. EDT – Call in number- 1-866-714-4887, passcode 8335031# – POC Linda Florian, Code 1016

May is Mental Health Awareness Month. The Department of the Navy Civilian Employee Assistance Program (DONCEAP) has personalized support for all your needs. Contact DONCEAP 24 hours a day, 7 days a week, to get expert guidance and resources. This month’s newsletter offers tip for managing your emotional well-being.

The DON CEAP
1-844-DON-CEAP
(1-844-366-2327)
For TTY Users: 1-800-635-2883
<https://magellanascend.com/>

Cover

Nicholas Reynolds, an engineer in the Hull Response and Protection Branch (Code 664) at Naval Surface Warfare Center Carderock Division, participates from home in a daily “stand-up” meeting with the Navy Enhanced Sierra Mechanics team on May 8, 2020, during one of their Agile Scrum sprints to develop software. (Photo provided)

Welcome

Wavelets is a weekly Carderock employee newsletter that is cleared for public release.

For Wavelets questions or submissions: CRDIVCPAO@navy.mil
For leadership questions or concerns: NSWCCD_LEADERSHIP@navy.mil

Useful links

INTERNET SITE:
<http://www.navsea.navy.mil/Home/WarfareCenters/NSWCCarderock>

INTRANET SITE:
<https://cuthill.aw3s.navy.mil>

Wavelets on iNFUSION:
<https://wiki.navsea.navy.mil/display/WN/Wavelets+Home>

SOUNDINGS on iNFUSION: NSWC monthly newsletter (Distro D):
<https://wiki.navsea.navy.mil/display/SOUNDINGS/SOUNDINGS+HOME>



COVID-19

Travel Personal Protective Equipment (PPE) kits and gloves now available through Shop Stores!

To order, visit:

<https://cuthill.aw3s.navy.mil/shopstores>

Brian Chirozzi, Electrical Engineer, Seakeeping Testing Branch

By Edvin Hernandez, NSWCCD Public Affairs

Brian Chirozzi, an electrical engineer in the Seakeeping Testing Branch (Code 852) at Naval Surface Warfare Center Carderock Division, developed an admiration for cars and mechanical projects early in life through his father's influence.

Raised in New Castle, Pennsylvania, Chirozzi often accompanied his father to provide a helping hand with various electrical and sound-system installation jobs. Together, they would run cabling, hang speakers, terminate connectors and install rack-mounted system electronics in high school gyms, stadiums, churches, funeral homes and other facilities.

"I learned almost everything I know from my father," Chirozzi said. "Working with him through my younger years, all throughout high school and even in the summers while I was in college – that's where I learned a lot of my electrical hands-on theory and application. My love for cars and pursuing this trade has also come from him."

As college approached, Chirozzi knew he wanted to study engineering. He entered the University of Pittsburgh in Pennsylvania as an electrical engineering major, hoping to eventually work for one of the big three automotive companies: General Motors, Ford or Chrysler. After graduating with his Bachelor of Science in December 1995, he began working some part-time jobs and scored an interview with General Motors Truck and Bus Division. When his best friend mentioned that a Navy lab in West Bethesda, Maryland, was hiring, Chirozzi forwarded his resume to Carderock and, in July 1996, he joined the command as an electrical engineer with the then Full-Scale Trials Branch (Code 5200).

Having now worked at Carderock for the past 23 years, Chirozzi said his job experience has taught him just as much as his college education, if not more.

"When I look back at college, they teach the necessary book work, but not so much the application," Chirozzi said. "One thing I have learned here at Carderock is that every day is

different – it may not be what you went to school for, or you may not apply 90% of what you learned in college, but the experience you pick up here really helps you learn your discipline well."

He also believes younger engineers should take advantage of the knowledge available from the senior engineers and technicians. According to Chirozzi, the best form of learning is listening and asking questions. In his experience, he said Carderock is a great blend of newer and older engineering practices, and there is a lot of knowledge that can be absorbed.

Chirozzi has supported numerous assignments within the Seakeeping Testing Branch, regularly assisting with electronics, instrumentation and calibrations. Currently, he is working on the DDG-1000 full-scale testing, which recently included a road trip to San Diego to conduct a calm-water trial. In the near future, Chirozzi expects to assist rough water trials for the same subject vessel. Another project he is supporting is the FFG(X) resistance and powering test, scheduled for June in the David Taylor Model Basin. Once the model is ready for maneuvering tests, Chirozzi and his co-workers will relocate to Triadelphia Reservoir in Brookville, Maryland.

"I normally work two or three projects at once, depending on the workload," he said. "For the FFG(X) test, I will help prepare all the instrumentation, calibration of transducers and setup on the tow carriage prior to the test execution. Our branch also has the Ship-to-Shore Connector testing coming up, which will be a team effort with Carderock's Performance Evaluation Branch (Code 653) and Panama City Division."

Through his work, Chirozzi has been able to travel to many places across the United States, as well.

"If I worked somewhere else, I would never have seen the things I've seen working here," Chirozzi said. "I am proud of all the jobs and missions we complete successfully – and I've had some unique trips that I will never forget while working TDY in California, Hawaii and Australia."

At Carderock, Chirozzi has appreciated the flexibility to work on projects outside of his



department. In the past, he has worked with fellow employees in the Platform Integrity Department (Code 60) and the Ships Signature Department (Code 70).

"I have learned something new from everyone I have worked with," he said. "They are smart people, each one of them – I enjoy being able to go to the different groups, different buildings and being able to integrate our skills and expertise together."

When Chirozzi is not working, he is likely tweaking something on one of his cars. As a car enthusiast, he has a passion for attending auto shows in Maryland and Virginia. He is also a fan of NASCAR racing and has spectated several races in the past, one of them being the Daytona 500 in Daytona Beach, Florida. He also likes going to amusement parks.

"I like going to Six Flags, Kings Dominion, King's Island and all those other parks," he said. "You figure if you're in engineering you have to test the rollercoasters – they're one big physics experiment."

Today, Chirozzi remains thankful for all the lessons he has learned from his father and said he feels proud tackling home projects, rarely needing assistance from a specialist for any electrical or mechanical work.

Carderock Engineers ‘Sprint’ to Develop Critical Software

By Kelley Stirling, NSWCCD Public Affairs

When the U.S. is introducing a new ship, such as the new frigate or the Ford-class aircraft carrier, there are many tests that need to happen before final acceptance. One of those tests includes full-scale ship shock trials, which tests the survivability of the ship against certain explosions near the hull.

One of the ways to mitigate the inherent danger and cost of setting off an explosive near the hull of a U.S. Navy ship is to predict the ship shock response and damage through numerical modeling and simulation. This requires software development.

At Naval Surface Warfare Center Carderock Division, a team of engineers are building high-performance computing physics-based modeling and simulation tools under the High Performance Computing Modernization Program (HPCMP) Computational Research and Engineering Acquisition Tools and Environments (CREATE) Ships project. The HPCMP CREATE Ships Shock/Damage product, Navy Enhanced Sierra Mechanics

(NESM), is developed in collaboration with Sandia National Laboratories.

“The goal of the toolkit is basically a virtual test facility,” said Jon Stergiou, a Senior Technologist (ST) and Carderock’s Distinguished Engineer for Hull and Mechanical System/Ship Integration Modeling and Simulation (Code 804). “So when the Navy needs to assess the survivability or vulnerability of a platform, rather than taking it out to the ocean and blowing something up, we would be able to model that phenomenon in the software, looking at how the explosive detonates, how the shockwave propagates, how the shockwave interacts with the hull.”

Mike Miraglia, an engineer in Carderock’s Hull Response and Protection Branch (Code 664), leads the CREATE Ships NESM team.

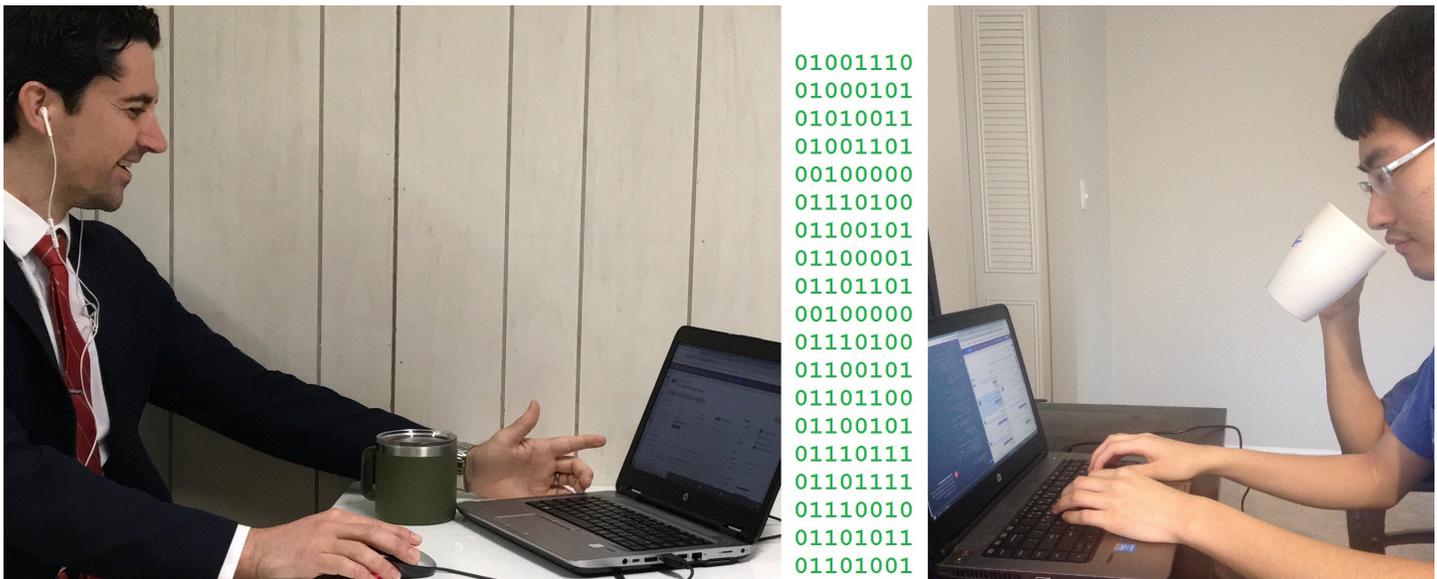
“People have different experience levels,” Miraglia said about the benefits of having members from a wide variety of backgrounds. “Not everyone is completely interchangeable;

often team members have worked in one area more than others, so they may enlist the help of a more experienced colleague.”

They’ve also been working with Sandia National Laboratories, a Department of Energy facility in Albuquerque, New Mexico, to develop and enhance the software. Stergiou said Sandia brought additional knowledge to the table, such as using an Agile Scrum framework to focus their efforts on software development. The Sandia team also provided lessons on healthy team practices and continuous improvement.

“One of the concepts behind Agile and Scrum is that software is complicated and the projects can have a lot going on,” Stergiou said. “Developers tend to be most productive when they have very focused tasking to work on and all the distractions to that tasking are minimized.”

To further concentration on the software development needs at hand, Stergiou said they implemented Scrum sprints about 10 years ago.



Alan Hesu (right), an engineer in the Hull Response and Protection Branch (Code 664) at Naval Surface Warfare Center Carderock Division, participates in a daily “stand-up” meeting with fellow engineer Nicholas Reynold as part of the Navy Enhanced Sierra Mechanics on May 8, 2020, during one of their Agile Scrum sprints to develop software. The middle binary spells out “NESM team teleworking.” (Photo illustration provided)

Note: You are not seeing things, Hesu “added” a third arm to be able to drink more coffee.

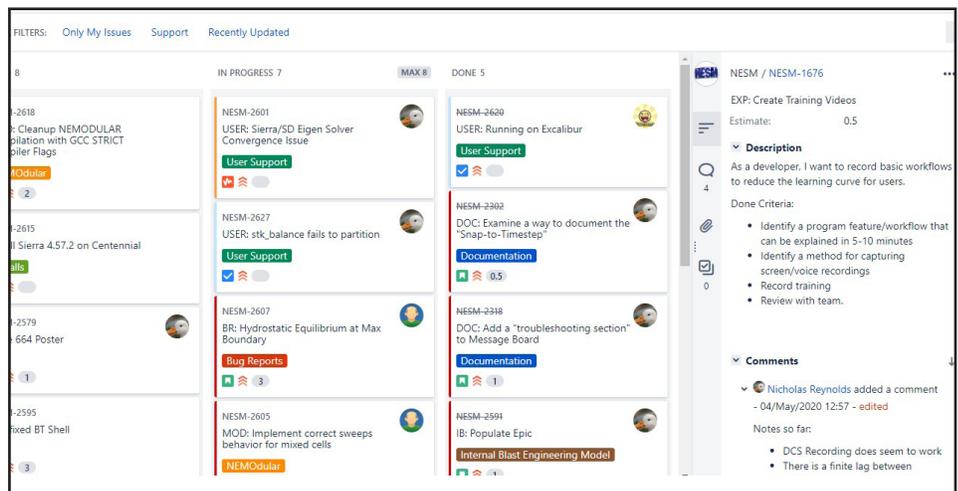
Continued on Page 5

Carderock Scrum Sprints *(continued from Page 4)*

“The concept of this whole sprint idea is that we lay out all the work that needs to be done over the course of six months to a year, and then break it into bite-sized chunks what can be accomplished within a three-week window,” Stergiou said.

Every three weeks, the team has a sprint planning session to look at the backlog of work categorized into “epics” and prioritizes tasks based on user input or sponsor requirements, then decides the capacity of what can be done in the next three-week cycle. Stergiou said some tasks, called “stories” or “work units” might only take a day; some might take the whole three weeks. Each day, the team holds a 15-30-minute virtual standup to talk about the specific sprint tasking. When a story is complete, it gets moved to the “done” column. Using a JIRA Agile software product provided by HPCMP, the team manages the storyboards for each sprint. At the end of the three-week period, they hold a sprint review where they share the status of each completed story and assess the impact of their work.

Within the framework of the NESM suite, a sprint might include efforts to look at a new explosive and set up an equation that describes how that explosive behaves. A story might be to do literature research about that explosive, discovering the relevant equations and references. Another story, perhaps in the same sprint, might be to take the results of the literature search and turn the relevant equations into code, and then determine if the pressures the software says the explosive will generate matches the pressures established by the references. The final story, whether in that sprint or another, might be to integrate that stand-alone code into the larger suite.



An example of the Agile JIRA page the NESM team uses for their Agile Scrum sprints.

“An extension of that might be actual verification that the software suite reproduces experimental data with a requisite level of accuracy,” Miraglia said.

Miraglia said there is always an active sprint. Since the team has been doing this for about 10 years (and over 100 sprints) and one of the tenets of Scrum is continual process improvement, he said they are always looking to identify opportunities for refinement. During any given sprint, the team might be hosting an “experiment,” a specific story focused on this process improvement. Any member can suggest an experiment.

“The driving motivation behind experiments is a belief that the team should strive to perform better each sprint,” Miraglia said.

An example of a recent experiment was to change what they talk about in the daily standup. Historically, they had allowed each team member to talk about their current status of what they were working on. During the experiment, they examined each task individually. They immediately saw the advantage of this in that they were able to talk to the tasking as a whole, as opposed to going around the room and covering every single thing the individuals were working on.

An example of a not-so-successful experiment was to have an open phone line with their counterparts at Sandia, so that any person on the team could chime in whenever they needed to discuss tasking. Miraglia said this resulted in a lot of dead air, and the interactions that did occur only involved a small number of people and ended up disrupting everyone else on the call.

“The idea is to be self-critical and ask what we can be doing better within both the three-week sprint and over the course of a year or multiple years of development and try to implement these process improvements,” Miraglia said.

Former Carderock Commanding Officer Rear Adm. Ricketts , 87, dies



Rear Adm. Myron Ricketts, 87, passed away at his home in Gainesville, Virginia, on April 27, 2020. Born on Oct. 11, 1932, in San Diego, he was the son of Adm. Claude Vernon and Marjorie Ricketts.

After graduating from the United States Naval Academy in 1955, Ricketts also earned post-graduate degrees from MIT, Virginia Tech. and the Naval Post Graduate School. Ricketts served as the 24th Commanding Officer at the David Taylor Model Research Basin in Bethesda, Maryland, from 1981-1984.

The David Taylor Model Research Basin, now known as the Naval Surface Warfare Center Carderock Division, is considered a rare and prestigious shore command and was the highlight of Ricketts's 33-year career in the Navy.

Ricketts retired from the Navy in 1988 at the rank of Rear Admiral and was the only modern-day commanding officer from Carderock Division to reach the rank of a flag officer after his time at Carderock.

Ricketts' full obituary is posted here: <https://www.legacy.com/obituaries/washingtonpost/obituary.aspx?fhid=5992&n=myron-ricketts&pid=196147414>

Photo of Rear Adm. Myron Ricketts as Rear Admiral at Naval Sea Systems Command.

In the Know

STEM Wiki Page; Share At-Home Learning Experiences

Dashboard / Carderock Chief Technology Office / Carderock STEM and Outreach A≡

Online STEM Resources and Hands-On Activities

Created by Charlotte George, last modified on May 08, 2020



Carderock's STEM team has developed a Wiki page full of online resources and hands-on activities for NSWC Carderock Employees to utilize while teaching from home. You can find them here: <https://wiki.navsea.navy.mil/display/CarDivCTO/Online+STEM+Resources+and+Hands-On+Activities>

The STEM team is curious to hear about your at-home learning experience (good or bad) and share it with the rest of the workforce. We'd like to highlight your feedback in our Wavelets 'Teaching From Home' series. Send any stories or pictures you'd like to share to: nswccd_stem@navy.mil.

If you have any questions, POC is Haley Kirby, STEM and Outreach Coordinator, at 301-312-1524, or haley.kirby@navy.mil.

How to Teach Online and Learn from Home

- Make a Schedule
- Take Breaks
- Ask your School District for Support
- Make it Fun!
- Help Kids Create a Learning Environment
- Hold a Daily Wrap-Up Meeting

Teaching from Home 7

By Debbie Reynolds, M. Ed., Einstein Fellow, STEM and Outreach Office

Welcome back to Week 7 of Teaching from Home. We have some exciting information to share with everyone! This week we are rolling out a fun and engaging online challenge using FLEET, a game developed by the American Society of Naval Engineers (ASNE). In partnership between NAVSEA STEM and ASNE, we are providing this opportunity for our friends and families in the hope to continue supporting your STEM adventures at home. FLEET is a 100% free naval engineering video game that engages students in the engineering design process through shipbuilding. The program is run by ASNE, so that it costs \$0 for schools, families, educational organizations etc. Weekly competitions are geared for all ages and it is going to be awesome! Make sure to watch out for more information with access instructions and upcoming engagements! <http://www.navalengineers.org/Students/FLEET>

Parents' Corner

We asked you, and we did hear from Katrina Moore where she shared an adorable picture of her daughter, Trinity, and her cozy assistant, working on programming!



Trinity Moore (7 years old) coding via Scratch Jr. She participates in a daily one-hour class hosted by Code Advantage and is learning the joys of coding while also having a lot of fun! Special thank you to the Carderock STEM and Outreach Program for introducing us to the many online coding resources! Truly a lifesaver for me as a work and homeschool! – Katrina Moore, Code 104

Thanks so much to Sandy Gordon for the great catch in the Early Bird last Friday. In case you missed it, online tutoring through <http://www.tutor.com> is now available for military and civilian families. Highlights from the article are included below:



Online Tutoring Now Available for Military and Civilian Families

By MC1 Mark D. Faram, Chief of Naval Personnel Public Affairs
https://www.navy.mil/submit/display.asp?story_id=112798

With schools from Pre-K through college shut down due to the COVID-19 pandemic, Navy military and civilian families are often navigating uncharted waters when looking for studying help for their children's schoolwork or even their own – until now. Thanks to the Department of Defense Military Community and Family Policy Office, the extended military family now has round-the-clock tutoring assistance through the website [tutor.com](http://www.tutor.com) at no cost.

Tutor.com dishes up on-demand academic support 24-hours a day, seven days a week in more than 100 subjects with a full range of assistance for young children through college-level courses.

The tutoring service is now open to all DoD affiliated individuals and families, including both active, Guard and Reserve service members, as well as DoD affiliated civilian personnel and their families. Also eligible are Army and Naval Reserve Officer Training Corps and Service Academy Midshipmen and Cadets. This expanded service is currently scheduled to be available through June 30.

Additionally, Varsity Tutors <http://www.varsitytutors.com/> has also been providing free services right now during the pandemic. They have daily live classes, as well as virtual summer camps. It is definitely worth taking a look at these free resources.

We'd love to hear from more of you! Send stories and pictures to the Carderock STEM email account, and as always, feel free to email me at deborah.k.reynolds_ctr@navy.mil or reach any of us in the STEM and Outreach office if you need help. Be sure to check out the STEM wiki online. Follow me on Twitter @STEMnaut and see all of the other resources I am sharing throughout our #STAYATHOME challenge!

The STEM team is curious to hear about your at-home learning experience (good or bad!), and share it with the rest of the workforce. Next week, we'd like to highlight your feedback in Wavelets. Send in your stories and pictures to nswccd_stem@navy.mil.

A Week in COVID-19 News

Compiled by Todd Hurley, NSWCCD Public Affairs

As of May, the number of reported COVID-19-related cases in the United States has reached 1,300,696, with a total of 78,771 reported deaths. There are 24 states in the nation who have reported at least 10,000 cases of COVID-19, while only five states have reported under 1,000 cases – Alaska, Hawaii, Montana, Vermont and Wyoming.

<https://www.cdc.gov/coronavirus/2019-ncov/cases-updates/cases-in-us.html>

May 7

In the most recent article released by the DOD, it has been announced that New York National Guardsmen, airmen and active duty and civilian medical providers in New York City are being provided with dogs as a way to lift spirits and relieve stress. "The dogs are courtesy of Puppies Behind Bars, a New York City nonprofit organization that pairs inmates in regional prisons with puppies to be trained to become service dogs," Col. Richard Goldenberg said, the author of the article. When asked if they needed anything, the National Guard responded by saying they wanted dogs, an answer given partially joking. However, the governor thought it was a great idea, and one week later the service dogs were provided. Puppies Behind Bars began in 1997 and raises and trains their dogs in seven different correctional facilities in upstate New York. They are typically trained for first responders and wounded veterans.

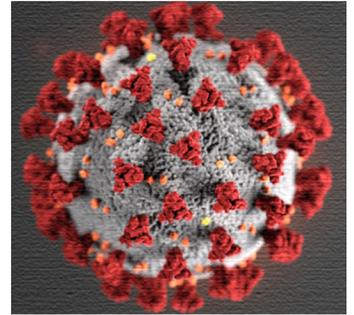
<https://www.defense.gov/Explore/Features/Story/Article/2178564/puppies-bring-stress-relief-to-those-fighting-covid-19/>

May 6

Amidst the COVID-19 global pandemic, Lance Cpl. Alison Dostie wrote an article released by the DOD that focused potentially less thought about matters – animal shelters. "With the world focused on protecting its human populations during the COVID-19 pandemic, it can often be

easy to overlook those looking out for our furry little friends," Dostie wrote. She went on to state that despite staff shortages, the animal shelter at Marine Corps Base Camp Pendleton in California would still be aiding to those animals in need. "The shelter's mission is to protect animal owners, nonowners and domestic animals. The shelter also protects animals from abuse and neglect, rescues sick or injured animals and places qualified animals into an adoption program," Dostie wrote. Throughout this pandemic, the animal shelter is still striving to take in those animals in need and conducting investigations on animal abuse and neglect.

<https://www.defense.gov/Explore/Features/Story/Article/2176846/base-animal-shelter-continues-essential-operations-despite-covid-19/>



May 5

The most recent article released by the DOD states that the Brooke Army Medical Center, Joint Base San Antonio-Fort Sam Houston, Texas, joined in the attempts to find an experimental treatment for COVID-19. The treatment, based on the antiviral drug remdesivir, has been tested on more than 1,000 people across the nation, in which patients with advanced stages of COVID-19 recovered at a faster rate than those not on the drug. "As of yesterday, we didn't have a proven treatment

for COVID for hospitalized inpatients and now we do," Maj. David Lindholm said. Lindholm is the infectious disease doctor and BAMC's principal investigator on the remdesivir trial, and he is also an assistant professor of medicine at Uniformed Services University of the Health Sciences. "This was an incredible opportunity to collaborate with national and international clinical research experts, while exploring potentially lifesaving treatments," he said. "BAMC will also have a role in NIAID's ACTT 2 trial, which is currently being designed." <https://www.defense.gov/Explore/Features/Story/Article/2175142/military-hospital-lends-research-expertise-to-global-pandemic-effort/>

May 4

As of May 2, there are 97 Public Health Laboratories that have completed verification and are offering COVID-19 testing. There is at least one laboratory in every state in the nation, as well as in Washington D.C., Guam, Puerto Rico and the U.S. Virgin Islands.

<https://www.cdc.gov/coronavirus/2019-ncov/cases-updates/testing-in-us.html>



Army Sgt. 1st Class Richard Masci of the New York Army National Guard and a medical professional, pets P.K., a Labrador retriever service dog, provided by Puppies Behind Bars in New York City, April 23, 2020. Puppies Behind Bars is a nonprofit organization that trains prison inmates to raise service dogs for wounded war veterans and first responders, as well as explosive-detection canines for law enforcement. (U.S. Air Force photo by Senior Airman Sean Madden/Released)

Research Commons Round Up

Soundings

Warfare Center Wins

<https://wiki.navsea.navy.mil/display/SOUNDINGS/Research+Commons+sees+large+surge+in+use+during+teleworking>

NAVSEA's Soundings is sharing Warfare Center efforts during the COVID-19 crisis and, in April, profiled the Research Commons. With most of its users teleworking, the digital library has risen to the challenge of meeting the evolving needs of its users. It's one of many success stories in the Naval Warfare Center Wins, which shares how the workforce is responding to the pandemic.

Webinars

IEEE Webinars

<https://aimtc2.nuwc.navy.mil/stlibrary/node/9471>

Are you interested in conducting your research more effectively, specifically within IEEE Xplore? Check out a new webinar: "Techniques for Effective Research With IEEE Xplore". Two additional webinars are scheduled; one in May and another in June. All of these are available to you if you have a Research Commons account.

O'Reilly Safari

Free online access

<https://www.oreilly.com/online-learning/government-free-access.html>

O'Reilly Safari Online Learning is offering free, unlimited access to all local, state, and federal government employees through July 6. The O'Reilly Safari platform provides online access to more than 35,000 ebooks, online training courses, technical certification prep materials, and much more.

DTIC News

Pandemic information

<https://www.dtic.mil/dodtechspace/community/news/content>

As part of DoD's response to the COVID-19 pandemic, the Defense Technical Information Center (DTIC) has developed a DoDTechpedia page linking to technical reports on coronaviruses, infectious diseases, ventilators, and other related topics.

Telework Wiki

Getting connected

<https://wiki.navsea.navy.mil/display/WCCIO/Telework+Guidance>

If your teleworking experience has had some bumps along the way, check out the Warfare Centers Telework Guidance Wiki. There are links to higher DoD, Navy and NAVSEA instructions, the NMCI Homeport and some general information on how to connect from home, and how to stay cyber-safe.

Digital Repository

New research contributions

<https://blog.navsea.navy.mil/johndharvey/2020/04/>

Seven recently published tech reports and memos were added to our unclassified digital repository in April. Technical Writer John Harvey

Research Commons

Books Databases Documents Journals

keeps track of them in his monthly blog and makes them available to all Research Commons users.

Executive Summaries

Methods of persuasion

<https://aimtc2.nuwc.navy.mil/stlibrary/executivesummaries>

Before you try to change someone's mind, your first need to understand that person's point of view. That's the idea behind "THE CATALYST: How to Change Anyone's Mind" by Jonah Barger. It's one of two new Executive Summaries recently added to the Research Commons. Executive Summaries are concise 8-page summaries of business books and the Research Commons that provide access to the latest trends and ideas in management and leadership.

Research Commons Blog

National Library Week

<https://blog.navsea.navy.mil/research-commons/>

Research Commons librarians were busy in April during National Library Week with daily blog and fusion postings, and sharing experiences and resources that they use in their work. If you've ever wondered why some of them became librarians, what they like to read, or how they collaborate with other librarians, here's your chance to find out.

iNFusion

Design and manufacturing

<https://fusion.navsea.navy.mil/fuzz/101939>

Engineers at NSWC Corona are responding to COVID-19 with some innovative technology.

They designed PPE for a nearby prison, and created a unique oxygen manifold to help treat Coronavirus patients in the hospital. Librarian Mackenzie Harrington shares what specific Research Commons resources they rely on for their design and manufacturing solutions. Research Commons' iNFusion presence includes a customer support channel on Chat, providing the opportunity to chat with NUWC Newport library staff. Reach out for any account or research questions you might have (or just to say hi!). <https://chat.navsea.navy.mil/channel/nptlibrary>

Still need to create a Research Commons account? Head on over to our Wiki page: <https://wiki.navsea.navy.mil/display/RCDL/Research+Commons+Digital+Library+Home>

CVR; Microsoft Teams is Available

By Command Information Technology Office

Commercial Virtual Remote (CVR) Environment accounts have been created and notification emails have been sent for ~98% of Carderock users. Of the users receiving their account, ~20% have logged in.

Some folks are saying that CVR doesn't have everything they need to do their job, including from personnel who do classified work or FOUO not allowed on CVR. While CVR can't be all things to all people, it absolutely has brought capabilities to bear that we did not have two months ago. All of us have work that is purely unclassified (publicly releasable) and CVR is a great capability to collaboratively execute those tasks. It's also worth noting that CVR capabilities are evolving as Microsoft develops their offering in GovCloud and Navy enhances our system's ability to take advantage of those.

Currently, the guidance provided from NAVSEA HQ / WFC HQ is to leverage CVR for Distro A / Publicly Releasable information. There are discussions on-going to relook at this at higher headquarters, but at this time nothing outside Distro A / Publicly Releasable Information is permitted.

A very small percentage of people haven't received their invite, and this is probably the biggest challenge to adoption. The good news is that we've identified a few paths that should help most users get a new invite and get logged on. Users should update and verify their milConnect profile:

Go to milConnect (<https://www.dmdc.osd.mil/milconnect>).

- In your CIV/MIL/CTR profile, verify that they have selected Navy as their Duty Organization and the appropriate command as their Duty Sub Organization.
- In your CIV/MIL/CTR profile, verify that their Primary Personnel Email address is correct.
- If not, the user should go to RAPIDS Self-Service (https://www.dmdc.osd.mil/self_service) and follow the prompts to Change CAC Email.

If all information is correct, as of today a user can now contact Navy 311 to request a new invitation. The welcome e-mail will go to the address reflected in milConnect, so users must follow the steps above before requesting a new invitation.

CVR is also sending new invites to users who have never logged in every weekend for 28

DOD COMMERCIAL VIRTUAL REMOTE (CVR)

MILCONNECT STEP-BY-STEP

Why update MilConnect?

CVR is a limited, DOD-only instance of Microsoft Teams to support continuity of operations during COVID-19 mass telework. CVR/Teams includes: chat/text, voice calling, video conferencing and file storage and sharing. In order to be provisioned a CVR/Microsoft Teams account, users must update MilConnect with a DUTY SUB ORGANIZATION. Currently, two-thirds of the Navy has not selected a DUTY SUB ORGANIZATION in their MilConnect record, and therefore, has not been provisioned a CVR/Teams account. In addition, users must ensure that their NIPR email address, reflected in MilConnect, is accurate.

This document provides users with step-by-step instructions to update MilConnect accordingly.

STEP 1
a. Navigate to: <https://milconnect.dmdc.osd.mil/milconnect/>
b. Select the following option: Update personal contact info

STEP 2
a. Select the CAC tab
b. Select Login

STEP 3
Select OK

STEP 4
Select the CIV or MIL tab, depending on what role you have as DOD personnel

STEP 5
a. Edit BOTH of the following drop down menus:
Duty Organization & Duty Sub Organization
Personnel email address
b. Scroll to approximately two-thirds down the page and ensure that the following field reflects your current NIPR email address. This is the address where you will receive your CVR/Teams invitation:
Personnel email address
c. Scroll to the bottom and click SUBMIT

Note: There are over 2000 Navy organizations listed in MilConnect. You will need to find and select your specific organization in the list.

For more information, contact:
CDR Ryan Tashma
Office of the CIO, US Fleet Forces Command | TENTH Fleet
ryan.tashma@navy.mil

days after initial account activation (or 15 May, whichever is later). After 28 days of non-activity, user accounts are deactivated and require a ticket to reactivate (users should contact Navy 311). <https://www.public.navy.mil/navwar/navy311/Pages/home.html>

CVR is temporary. While CVR is only intended to last through the COVID-19 emergency, the capabilities it brings are part of Navy's strategy. Learning how to use CVR is an investment in learning how to use Navy's O365 tenant in IL5 (TEAMS will be part of this – different account). Users don't have to go full-bore and move all of their work into CVR, but they can definitely benefit from using it to augment their collaboration with co-workers. It's a great collaboration enabler.

Users can use CVR on their personal computers. Per NAVADMIN 093/20, CVR is authorized for use on personal computers and mobile devices. Part of the benefit of CVR versus other DoN telework tools is that, in most cases, users don't need to download any data to their local machine or even have the standard Microsoft applications on their machine. This is especially true if they only use the web client. This is safer

for Navy data than, for example, if they are using OWA, downloading files locally to edit, and then attaching back to OWA. It is also better for version control, where they can edit collaboratively with co-workers on the same document.

Cyber alert: There is a new vulnerability affecting the Microsoft Teams. The NMCI Teams Application and the NMCI web browsers are patched and up to date. Ensure your personal devices are updated, as well.

Your action: Microsoft developed a solution to address this vulnerability and deployed it on April 28. Personnel using personal computers (including laptops), cell phones and tablets to access CVR Teams need to ensure their CVR Teams application and web browsers are up-to-date as of April 28. Go to your app store and update MS teams – similar to how you would update other apps that you use.

Patching our personal devices is all part of cybersecurity. Also, continue to reboot your machines prior to connecting to the VPN each time.

Need Additional Assistance?

"The" NMCI Helpdesk
Phone: (866) 843-6624
Email: servicedesk_navy@nmci-isf.com

CARDEROCK NMCI Helpdesk Support
Email: CRDR.NMCI@navy.mil

RDT&E Helpdesk Support
Email: CRDR_WB_HelpDesk@navy.mil
NSWC_Carderock@navy.mil

ISSM/Cyber Support
Email: CRDR_CD_IAM@navy.mil

CVR Assistance
Additional assistance logging in: Visit CVR Knowledge Base: <https://ccpo.atlassian.net/servicedesk>
CVR HUB (Resources and Information): <https://www.cloud.mil/CVR>
CVR Helpdesk Email: Cvr_il2_teams.fct@navy.mil

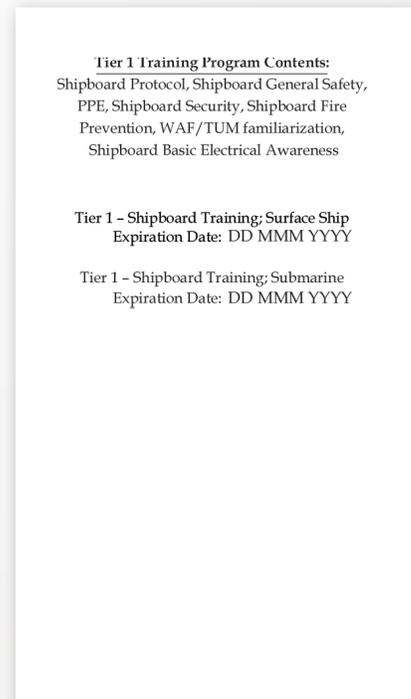
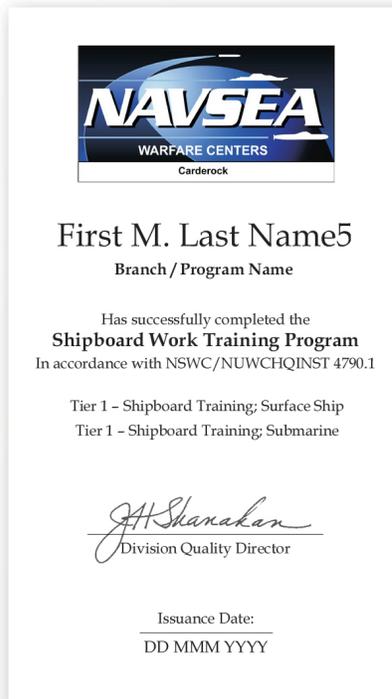
Navy 311
<https://www.public.navy.mil/navwar/navy311/Pages/home.html>

Shipboard Work Training Card Requirements

Naval Surface and Undersea Warfare Centers have required all government civilian personnel working on surface ships and submarines to obtain a Shipboard Work Training Card.

Employees supporting technical assistance visits; alteration/ship change installations; combat system ship qualification trials; maintenance work; inspections; validations and audits, will have to present their cards to the Regional Maintenance and Modernization Coordination Office (RMMCO) beginning July 1, 2020. Onsite entry may be denied to employees who have not obtained a Shipboard Work Training Card prior to the deadline listed. The minimum requirements, which all Warfare Centers personnel must complete before performing shipboard work, has been established and divided into three separate tiers depending on the quality of work. Tier 1 trainings can be completed on the Total Workforce Management System (TWMS) by completing TWMS #650973 for submarines and TWMS #631353 for surface ships. Tiers 2 and 3 training apply to job-specific requirements, but all personnel boarding a ship must complete Tier 1 training. Employees should note that a refresher training is required every two years thereafter.

Once employees complete the required training, they will be issued a physical Shipboard Work Training Card. Due to the COVID-19 pandemic, employees who complete the training will receive a



pdf version of their training card until it is safe to resume normal operations. For more information regarding Shipboard Work Training Cards, refer to NSWC/HQ/

NUWCHQINST 4790.1C issued on Aug. 29, 2019, or contact Katherine Citro at katherine.citro@navy.mil.

Armed Forces Day, May 16

May 16, 2020, marks the 70th installment of Armed Forces Day, established in 1949 and initially celebrated the following year. The creation of Armed Forces Day was announced on Aug. 31, 1949, by Secretary of Defense Louis Johnson and acted as a replacement of the separate Army, Navy and Air Force Days. The holiday, though not a federal holiday, stemmed from the unification of the Armed Forces under the Department of Defense and is celebrated every third Saturday of May. Though the Coast Guard is part of the Department of Homeland Security, it is also recognized during celebration. Unlike Veterans Day, which honors military veterans, and unlike Memorial Day which remembers the men and women who have died serving in the U.S. military, Armed Forces Day pays tribute to all military men and women.

During the Presidential Proclamation on Feb. 27, 1950, President Harry S Truman announced, "Armed Forces Day, Saturday, May 20, 1950, marks the first combined demonstration by America's defense team of its progress, under the National Security Act, towards the goal of readiness for any eventuality. It is the first parade of preparedness by the unified forces of our land, sea and air defense."

In regards to the newly founded Armed Forces Day, in 1953, President Dwight D. Eisenhower said, "It is fitting and proper that we devote one day each year to paying special tribute to those whose constancy and courage constitute one of the bulwarks guarding the freedom of this nation and the peace of the free world."



Airmen from Andrews AFB, Md., salute President Harry S. Truman during a parade down Constitution Avenue for the second annual celebration of Armed Forces Day in 1951 Armed Services.

For the first Armed Forces Day, there were parades, air shows and receptions. In addition, in Washington, D.C., 10,000 troops from all the U.S. Armed Forces marched past Truman and his presidential party. Throughout the years, there have been themes for each Armed Forces Day, the inaugural theme being "Teamed for Defense." This theme was fittingly chosen as a way of expressing unity of the U.S. military forces under a single department.

CAC Information

To minimize the non-essential visits to the DoD ID Card Offices, the Department of Defense (DoD) will allow common access card (CAC) holders to update the CAC certificates online to maintain logical access through Sept. 30, 2020. In addition, individuals whose CACs expired after April 16 will continue to have facility access through Sept. 30, 2020, as long as eligibility for benefits is unchanged. Trusted Associate Sponsorship System (TASS) applications, existing and new, will be valid for 180 days assuming TASS-sponsored cardholders update their CAC certificates online. The ID Card Office will not be issuing CACs to update the printed information on the card (promotion, name changes).

Restrictions to update the CAC certificates online: The CAC and Volunteer Logical Access Credentials (VoLAC) must be within 30 days of expiring. The online portal cannot be used to renew expired certificates.

POC is Jaime Trujillo (Code 1053) at jaime.trujillo1@navy.mil, or 301-227-1860.

The West Bethesda CAC Office will be appointments only with the exception of CAC Pin Resets. The RAPIDS appointment scheduler has moved to a different URL: <https://idco.dmdc.osd.mil/idco/#/>. Users should select, "Schedule an Appointment." On the next page, type "Bethesda" in the top search box. "DMDC Loaner 2" will populate. From there, users can select date and time that works best for their schedule.

If you have any CAC card processing questions, please contact Emily Buser, Carderock CAC Office Site representative, at emily.buser_ctr@navy.mil, or 301-227-2081/0322.

For more on the DoD Response to COVID-19 - DoD ID Cards and Benefits, visit <https://www.cac.mil/Coronavirus/>.

Data Analytics Community of Practice Meeting

The next Data Analytics Community of Practice (CoP) Meeting will be held on Tuesday, May 12 from 1-2 p.m. EDT. The CoP meeting will feature a presentation by Trish McCarthy (Code 104) on NSWC Carderock's SEATech computing resources.

All Hands are invited. This meeting will be accessible via:
DCS link (presentation only):
<https://conference.apps.mil/webconf/DASCoPQrtly>
Dial-in/phone bridge number: 1-888-607-7854 and passcode 8261949#

Slides will be posted on the wiki prior to the meeting:
<https://wiki.navsea.navy.mil/x/-4CnD>

For more information contact Trisha Shields (Fusion: tshields, e-mail: trisha.shields@navy.mil) or Cyrus Hossainian (Fusion: cyrush, e-mail: cyrus.hossainian@navy.mil).

West Bethesda - Material Management Services

During this time of COVID-19, NSLC will continue to provide central receiving, inventory, warehouse, shop stores, shipping, and delivery services from Building 143. The most significant change to operations is that delivery services will be by appointment/prior arrangement.

POC is Dave Beagan, Property Management Division Head (C107), at david.beagan@navy.mil.

Bible Study and Morning Prayer

Bible Study Group, Tuesday Noon,
Now via Conference call

Morning Prayer, Monday mornings,
Meet at 7:45 to 8:00 AM
Via conference call

Contact Joe Osborne at 301-227-5218 or joseph.osborne@navy.mil to get the call information.

Face coverings are **REQUIRED**
when you cannot maintain
six feet of social distance.



Extended Term Training

The Workforce Development Office will offer a brown-bag teleconference session about the Extended Term Training (ETT) program on Wednesday, May 13, 2020 from 10-11 a.m. EDT. Call information: 1-866-714-4887, passcode 8335031#

The Brown Bag Session will review program application and requirements, and prior ETT employees will be in attendance for a Q&A session.

The ETT program provides funds for employees who are pursuing a graduate or doctoral degree in an area that supports one of the Division's core equities and applies to all departments. The program allows selected employees to attend classes on a full, three-quarter, or half-time basis. Employees can apply for salary, tuition and academic fees to complete their graduate or doctoral degree.

Applicants are to complete and provide the following with their ETT Application Package:

- Completed ETT application found here: https://cuthill.aw3s.navy.mil/wcm/get_doc_url.php?pg=f12410-9.pdf
- Approved IDP in TWMS, which includes requested ETT academic pursuit
- DAWIA Transcript (if applicable)
- Signed Continued Service Agreement

Employees may send their fully endorsed, completed fiscal year 2021 ETT application package to POC Linda Florian, ETT Program manager at linda.florian@navy.mil by COB on Friday, May 22, 2020.

For more information, contact Florian at email above or 301-227-5632.

PPE Travel Kits Now Available Through Shop Stores

To support safety during mission critical travel, Travel Personal Protective Equipment (PPE) kits have been added to the Shop Stores site. The kit includes a face covering frame, material for mask, rubber bands and sanitizing wipes.

These kits are intended to reduce the risk of COVID specifically. They may not meet all PPE requirements for the type of work being performed while traveling.

For questions or more information, contact Dave Beagan, Property Div Head, at david.beagan@navy.mil and Andrew Giagnacova, Safety Officer, at andrew.giagnacova@navy.mil.

Department AOs to Coordinate Training Certificates

Workforce Development (WFD) has worked with Department Administrative Officers (AOs) on the process to record your training completions. Guidance will come from your Department AO about which method they will use for collecting your completed training information. WFD will be routinely collecting mass training records from your Department AOs and updating in TWMS.

WFD has developed offline training transcripts where you can get majority of your mandatory training completed. The wikipedia that has the FY20 employee mandatory training and supervisory training requirements can be found under the "offline mandatory training" tab at <https://wiki.navsea.navy.mil/display/NSWCCDHR/COVID-19+Guidance#>.

For questions or more information, contact Renard Walker at 301-227-3474 or renard.walker@navy.mil.

SEATech Modified Hours

Due to the current situation, the SEATech Center (Building 17E, Room 120) is modifying its operations. Beginning next week, SEATech will have the following modified operations until further notice.

Hours of Operation: Tuesdays and Thursdays from 7:30 a.m. to 4 p.m.

All SEATech services will be available during these times. These include:

- Classified and unclassified labs with engineering workstations
- Access to SEATech and HPCMP High Performance Computing clusters
- TeamRoom-c access
- SIPR Reading Room

Always maintain recommended social distancing, including in the SIPR Reading Room and conference rooms

If someone has a mission-critical need to access SEATech outside of the revised hours of operation, contact SEATech staff at nswccd.seatech@navy.mil a minimum of two business days prior. Department Head approval is required.

SEATech encourages people to access the systems remotely to the fullest extent possible.

If you have any questions, contact Code 104 SEATech staff at nswccd.seatech@navy.mil.

Voluntary Self-Identification Health Screening

For everyone's safety, if you do find yourself needing to enter any Carderock worksite, you are strongly encouraged to review the updated voluntary self-identification health screening questionnaire (**last page of this Wavelets**) before you come to your duty station. If you are experiencing any of the listed issues, notify your supervisor and stay home. Do not enter the workplace. Stay safe.



FY 2020

MANDATORY TRAINING



Version: 5
Updated: 4/28/2020

- FY20 DoD Active Shooter Training - ***DUE Jan. 8***
- FY20 DoD Cyber Awareness Challenge V7 - ***DUE Aug. 31***
- FY20 Privacy and Personally Identifiable Information (PII) Awareness Training
- FY20 Prevention of Sexual Harassment
- FY20 SAPR Refresher Training
- FY20 Records Management - ***See RM Flyer for options***
- NAVSEA Derivative Classification Training
- FY20 Workplace Violence Prevention
- FY20 Combating Trafficking in Persons (CTIP)
- FY20 Counterintelligence Awareness (CIAR), Physical Security, and Operations Security (OPSEC) - ***In-Person (Schedule TBD)***
- FY20 Level One Antiterrorism Training
- FY20 NAVSEA Intro to Controlled Unclassified Info Training
- No FEAR Act (Every two years)

Government employees must take ALL courses.

Contractors must take all courses in GREEN.



All Training Due by Sept. 30 unless otherwise noted.

For more information, please visit the Mandatory Training Wiki Page:
<http://wiki.navsea.navy.mil/pages/viewpage.action?spaceKey=WDP&title=Mandatory+Training>

Or Contact:

Renard Walker - renard.walker@nav.mil • 301-227-3474

Linda Florian - linda.florian@navy.mil • 301-227-5632

<https://mytwms.dc3n.navy.mil>



NSWCCD

COVID-19 APRIL 2020

SCREENING QUESTIONNAIRE

1. ARE YOU CURRENTLY SICK? ARE YOU EXPERIENCING ANY OF THE FOLLOWING CONDITIONS:

- Fever (temperature 100.4° F or higher)
- Cough
- Body aches
- Chills
- Sore throat
- Abdominal pain
- Shortness of breath

IF "YES" TO ANY OF THESE QUESTIONS DO NOT ENTER THE WORKPLACE!

WHAT TO DO

Stay-at-home and avoid contact with others.
Contact your supervisor (contractors contact your company) for guidance.
Put a clean mask on when one is available.
Contact your healthcare provider.
Follow CDC guidance.

2. HAVE YOU TRAVELED INTERNATIONALLY IN THE PAST 14 DAYS?

IF "YES" TO THIS QUESTION DO NOT ENTER THE WORKPLACE!

WHAT TO DO

Stay-at-home and monitor your health for the next 14 days and practice social distancing.
Contact your supervisor (contractors contact your company) for guidance.
Follow CDC guidance.

3. HAVE YOU HAD CLOSE PERSONAL CONTACT WITH ANYONE WHO HAS BEEN DIAGNOSED WITH COVID-19 IN THE PAST 14 DAYS? (PER CRITERIA BELOW)?

- Within 6 feet for prolonged period of time
- In direct contact with infectious secretions (been coughed/sneezed upon, etc.)

IF "YES" TO THIS QUESTION DO NOT ENTER THE WORKPLACE!

WHAT TO DO

Contact your supervisor (contractors contact your company) for guidance.
Put a clean mask on when one is available.
Contact your healthcare provider for quarantine determination.
Follow CDC guidance.



References:

<https://www.cdc.gov/coronavirus/2019-ncov/if-you-are-sick/steps-when-sick.html>

OSD Memo Force Health Protection Guidance sup 4 (11 Mar 20)

<https://www.cdc.gov/coronavirus/2019-ncov/travelers/after-travel-precautions.html>