



# SOUTH POTOMAC PILOT

NEWS AND INFORMATION FOR THE NAVAL SUPPORT ACTIVITY SOUTH POTOMAC DEFENSE COMMUNITY



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## INSIDE:

**U.S. Navy  
Mission 22  
Team Develops  
'Game  
Changing'  
Unmanned  
Capability**

Page 2

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U.S. POSTAGE  
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## Still Serving

*Wounded Warriors are vital part of NAVSEA, NSWC Workforce at Dahlgren and Indian Head*

By **NICHOLAS MALAY**  
Naval Surface Warfare Center  
Public Affairs

The 10 Warfare Center Divisions and their detachments hired more than 250 veterans and Wounded Warriors in fiscal year 2017, helping NAVSEA exceed its hiring goals for the fourth year in a row. More than 700 veterans and Wounded Warriors were hired across NAVSEA and all its activities in FY17, and nearly 3,700 have been hired since the NAVSEA Veteran and Wounded Warrior Program Office (VWW-PO) was established in 2009.

Supporting the country's military heroes and assisting them in continuing to serve their nation in civilian life is part of the Department of the Navy (DoN) Veteran and Wounded Warrior Hiring and Support Initiative which launched in 2010. With the Naval Systems Commands and the Office of Civilian Human Resources leading the effort, the Navy hired 10,609 veterans, 3,433 of whom are Wounded Warriors – combat veterans with disabilities of 30 percent or more – in 2016.

"These men and women are some of the hardest-working, highest-skilled and best-trained people in our country," said Warfare Center Executive Director Donald F. McCormack. "They are also brave, selfless and unquestionably part of NAVSEA's effort to have a workforce that is second to none."

The initiative, which supports the "People" line of effort in NAVSEA's Campaign Plan to Expand the Advantage, matches veterans with service disabilities to employment opportunities in NAVSEA's industrial, scientific, contracting and administrative fields.

In addition to holding reverse-style career fairs –



**Army soldier Anthony Rico, right, at the Pentagon in the aftermath of Sept. 11, 2001 terror attacks.**

which highlight the skills, talents and abilities of job seekers, rather than those doing the hiring – including one at the Washington Navy Yard last month, NAVSEA co-sponsors national events such as the DoN

Veteran and Wounded Warrior Hiring and Support Summit in May in Seattle. The VWWPO also assists veteran employees through the Mentor, Assist, Train to Excel and Support (MATES) program.

"Having personally met with hundreds of transitioning service members and veterans as they embark on civilian life, witnessing first-hand their courage and motivating attitude, makes it easy to be passionate in my career," said Caitlin Williams, NAVSEA's Veteran and Wounded Warrior Program Manager. "Former NAVSEA Commander, Vice Adm. (Kevin) McCoy once said, 'Who better to serve the warfighter than the warfighter himself?' The NAVSEA Veteran and Wounded Warrior Program Office wouldn't be successful without the support from leadership and the field activities that comprise the enterprise."

NAVSEA, the Navy's largest systems command, employs more than 74,000 people at 33 field activities across the country and overseas. There are hundreds of civilian occupations for Wounded Warriors across the enterprise; in this issue, timed to reflect the recent observance of Veterans Day, Soundings highlights several at the Warfare Centers.

**From Army soldier to Lead Logistics Analyst for the Precision Guided Weapons section of the Battle Management System**

*"It has truly filled a gap in my heart that I had since the day they told me I would no longer be able to be in the military due to my injuries." -Anthony Rico, NSWC Dahlgren Division*

See **Wounded Warrior**, Page 3

## Surface Warfare Experts Innovate for Future Fleet at New Navy I-Lab

By **JOHN JOYCE**,  
NSWC Dahlgren Division Corporate  
Communications

A new Innovation Lab is revolutionizing the Navy's thinking and collaboration about its future Fleet with events like the Surface Warfare Innovation Workshop, Naval Surface Warfare Center Dahlgren Division (NSWCDD) announced Nov. 20.

As scientists and engineers explore transformational ideas in the Innovation Lab, or I-Lab – NSWCDD officials anticipate a surge of technological advances, approaches, and capabilities to further empower the nation's warfighters to fight, win, and return home safely.

"The I-Lab is engaging our workforce and helping to retain talent through challenging collaborations, critical thinking opportunities, and rewarding prob-

lem solving for the warfighter," said NSWCDD Technical Director John Fiore. "It is my belief the pursuit of these types of labs will unleash the entrepreneurial spirit of our scientists and engineers to ultimately benefit our customers – Sailors and Marines keeping our nation secure and hoping to come home to their loved ones safe."

The NSWCDD I-Lab – equipped with state-of-the-art equipment, services, and trained personnel – opened for business over the summer as an intensive collaborative environment where NSWCDD experts work to speed up and maximize corporate innovative solutions across the laboratory.

"I am very excited about our new I-Lab that stimu-



U.S. NAVY PHOTO BY JOHN F. WILLIAMS

**Naval Surface Warfare Center Dahlgren Division (NSWCDD) engineers launch a Scan Eagle unmanned aerial vehicle (UAV) at the Potomac River Test Range. A panel session on the Fleet's integration and interoperability of unmanned systems, such as Scan Eagle, took place during a Surface Warfare Innovation Workshop sponsored by NSWCDD and the Navy War College at the Navy's newest Innovation Lab in October, 2017.**

See **I-Lab**, Page 2



# U.S. Navy Mission 22 Team Develops 'Game Changing' Unmanned Capability

By **JOHN JOYCE, NSWC DAHLGREN DIVISION CORPORATE COMMUNICATIONS**

What do NASA space crews and Navy Sly Fox mission engineers have in common?

Both leave the comforts of the ordinary to explore a higher, unfamiliar realm while testing possibilities and expanding capabilities. Their dispatches about discoveries, innovations, and experiences continue to fascinate people from all walks of life.

"As we move forward into the future, unmanned systems will allow for less operator involvement with features such as autonomous navigation, flight, and obstacle avoidance," was one transmission among a slew of dispatches that tell the latest story.

"CANARES is a great stepping stone leading to this future and I'm glad to be a part of it."

So, what is CANARES and who sent the dispatch?

Although it sounds like an excerpt from a blog written by NASA astronauts describing work on the Canadarm2 robotic arm during a spacewalk outside the International Space Station – this quote came from a Navy junior scientist.

Specifically, the dispatch revealed Jamshaid "JD" Chaudhry's insight into a live demonstration of CANARES by the Sly Fox Mission 22 rapid prototyping team in September, sponsored by Naval Surface Warfare Center Dahlgren Division (NSWCDD).

CANARES – also known as the Collaborative Aerial Network for the Autonomous Remote Engagement System – teams an Unmanned Aerial Vehicle (UAV) with an Unmanned Ground Vehicle (UGV) through a Command and Control Station. The UGV, named the Weaponized Autonomous System Prototype (WASP), provides an aerial perspective to improve mission situational awareness with a wider view that yields a tactical advantage.

WASP by itself is capable of navigating to a contact to provide its user with a first-person view. The warfighter can then identify the viewed contact for tracking and engaging using an Autonomous Remote Engagement System. Due to the limitations of that first person-view, however, Sly Fox Mission 22 was tasked with integrating WASP with a UAV to add an aerial perspective.

Several hundred Navy civilian and military personnel watched the seven-member Sly Fox Mission 22 team, including Chaudhry, demonstrate CANARES. The fully-integrated UAV, WASP, and command and control station detected, tracked, and engaged target after target on the Potomac River Test Range.

Throughout the development phase, the Mission 22 team applied the NSWCDD philosophy to "build a little, test a little, and learn a lot." As the team created the code at the modular level, it was tested before integration into the final system.

"I couldn't have asked for a better team and mentors," said Joe Gills, NSWCDD scientist. "There was a small budget, a short timeframe, a lot of stress, and high expectations, but every member pulled through and played a key role in developing CANARES. Sly Fox allowed me to experience the entire systems engineering life cycle and gave me an opportunity to network and work with technical experts across several defense agencies. The systems engineering principles and technical knowledge that I gained will help kick-start my career here at NSWCDD, and I look forward to many more successful projects after Sly Fox Mission 22."

The team integrated the full system and began testing



U.S. NAVY PHOTO/RELEASED

**Navy scientist Jamshaid "JD" Chaudhry briefs visitors on the Weaponized Autonomous System Prototype (WASP) after the Sly Fox Mission 22 demonstration held at Naval Surface Warfare Center Dahlgren Division.**

CANARES after confirming that the modular components of the software functioned with each other. Beginning with a ground-based communications test, the team verified that video data from the UAV and commands from the GUI (graphical user interface) were routed through the UGV to their correct destinations in a timely manner. The junior scientists and engineers then verified several flight requirements for the system during UAV in-flight testing on the range. Finally, the team ran the full system test to verify CANARES' capabilities as designed.

"Being a part of Sly Fox has been beneficial on multiple fronts," said Michael Parkison, a software engineer. "The technology we've worked with over the last six months will be a game changer for the warfighter in coming years, and the hands-on experience we've acquired equips us as engineers to jump into that new world head-first."

Lt. Akwasi Fosu, a Navy officer on active duty in NSWCDD's Warfare Systems Engineering and Integration Department, saw the demonstration and agreed with Parkinson – Mission 22 technology is a game changer.

"The demonstration of the ability to develop, deploy, and integrate sensors on different types of unmanned systems in real time through a single GUI was very impressive," said Fosu. "As unmanned vehicles mature in capabilities, such efforts to coalesce the controls and interfaces to make them more intuitive for warfighters are going to become more urgent across the services. Given the short time frame and the limited budget the young engineers were afforded, their results are all the more remarkable."

The team of mentors – senior NSWCDD scientists and engineers – ensured a strong focus on technical rigor as they taught the Sly Fox team how to perform under pressure with limited funds and a six-month deadline.

"The Sly Fox program serves as an outstanding experience accelerator for members of our workforce," said Dale Sisson, NSWCDD deputy technical director. "By presenting the Sly Fox teams with real-world challenges and schedules, we are able to allow them to gain valuable experience into what it takes to support our warfighters."

Just as NASA expedition astronauts take time to get to know each other before launching to the International Space Station, Sly Fox members do likewise. They learned about their teammates' strengths and weaknesses as they worked to make integrated sensors in a myriad of advanced and interoperable unmanned systems a reality for warfighters.

The benefits of transferring technical, project management, and leadership knowledge to junior engineers and scientists across organizations has been reflected in the careers of Sly Fox mission members since the first Sly Fox mission was launched in 2002. The inaugural team successfully developed the Passive Anti-Ship Missile Detection System within the designated six-month timeframe and proved that the Sly Fox program was an excellent way for young engineers and scientists to simultaneously develop technical, teaming, and leadership skills.

Although team members returned to their normal science and engineering positions at NSWCDD after Mission 22 concluded on Sept. 22, they are still reflecting on their Sly Fox mission experiences and sharing perspectives on lessons learned.

"My experience with Sly Fox Mission 22 is one I will never forget because it provided me with an invaluable amount of knowledge about the entire acquisition process that I know will be useful throughout my career," said Michelle Craft, mathematician. "A key part of Sly Fox that helped me learn so much was the people I met along the process. Working with personnel from all areas of the base both on the team and throughout the mission process really provided me with helpful insight into NSWCDD and how we run programs of record."

"Sly Fox is a fast-paced environment that forces you to go outside your comfort zone," said Salima Fenaoui, electrical engineer. "You are thrown at a project and have to quickly adapt and learn to complete it. I have learned an incredible amount in the last six months on how to manage a project from beginning to end and how to design an interface keeping the user in mind."

"One of the lessons I've learned from Sly Fox is how individual personalities affect the team dynamic," said Allen Woods, computer engineer. "People tend to settle into different roles on the team based on their personalities, but each satisfies a team need. As long as team members are properly communicating with one another, the result of this combined effort is a useful product."

"Being a member of Sly Fox Mission 22 has been a unique experience that has given me the opportunity to be a part of an exciting project, as well as get exposure to a lot of the work that happens behind the scenes to pull it together," said Christopher Toney, electrical engineer. "I've gained technical hands-on skills as well as programmatic skills, and most importantly, I've had a lot of fun with the team and mentors along the way."

The Sly Fox program is an NSWCDD Naval Innovative Science and Engineering (section 219) funded rapid prototyping program intended to develop the science and engineering workforce – mostly junior scientists and engineers – while applying their talents to known technology gaps. Like the previous 21 missions – including efforts in directed energy, radar systems, unmanned systems, and cyber threats – Sly Fox Mission 22 took advantage of the diverse skills of its team members to tackle a mission that is important to NSWCDD, its customers, and the warfighters.

## I-Lab

Continued from page 1

lates, promotes, and merges ideas into concepts for analysis, prototyping, experimentation, and transition as needed – but this is only the beginning," said Fiore. "We have plans to expand our free play environments to include workshops

that will allow us to free play with a variety of technologies, machine tools, and 3D printers."

Innovators are using gear that includes mobile networked touch screens with collaboration "Bluescape" workspace capability, a 3D printer, Surface Pro computers, a multi-touch collaboration table, self-contained holographic glasses, mobile glass boards, and unclassified video teleconference capability.

The I-Lab is reconfigurable to support large

innovative workshops as well as smaller, more focused events, including classified and unclassified break-out rooms. For example, NSWCDD and the Naval War College co-sponsored the command's first Surface Warfare Innovation Workshop, Oct. 17-19.

"The workshop was focused on gaining a foundation for current and future warfighting concepts and requirements," said Fiore. "Presentations and panel talks provided the op-

portunity for our technologists, engineers, and scientists to learn from OPNAV (Chief of Naval Operations staff) strategic planners, OPNAV surface warfare specialists, and visionaries."

I-Lab Innovators Envision Robotics and Quantum Computing in Future Fleet

Future world models of military-political en-

# Wounded Warrior

Continued from page 1

When Anthony Rico made the transition from military to civilian, “It wasn’t about the pay, it was about job security and a solid future for my family,” he said. “Being a contractor or government employee was always a way to give back to my fellow warfighters, who I missed being a part of. It has truly filled a gap in my heart that I had since the day they told me I would no longer be able to be in the military due to my injuries.”

As Lead Logistics Analyst for the Precision Guided Weapons (PGW) section of Battle Management System (BMS) at NSWC Dahlgren Division, he is responsible for the overall logistics and maintenance support for BMS PGW equipment, which is being used on the Harvest Hawk, Harvest Hawk+, AC-J (Ghost Rider), AC-W (Stinger II), Patrol Coastal and Littoral Combat Ships (LCS), as well as other developmental platforms and projects.

Rico came to NSWC Dahlgren Division by way of a reverse-style career fair hosted by NAVSEA, which he learned about from a representative of the Paralyzed Veterans of America.

“I had no clue what a reverse job fair was, but I was more than willing to attend,” Rico said. “Of course, I was already passed the registration date, but we contacted Caitlin Williams and her team and they were able to get me into the event. Thanks to Caitlin and her team, my dream of becoming a government employee was now a reality.”

Rico’s infantry background has served him well in his position at NSWC Dahlgren Division.

“Quite often in the service, you are thrust into situations where you don’t always have the right tool or person to complete a mission or job. This happens in a normal office environment as well, and veterans are quite creative and are able to come up with various ways to accomplish the objective,” Rico said. “The veteran brings the ‘Yes, but’ mentality, rather than the ‘No it can’t’ mentality. ‘This is how we have always done it’ doesn’t necessarily mean it’s the correct or most efficient way of doing business.”

Veterans can provide first-hand knowledge to a program office and help understand not only how a unit works and operates, but how warfighters use the tools within their field of work.

“Our mission as a Warfare Center is to provide the most effective and safest systems possible to the warfighter,” said Robert Snodgrass, Weapon Control Hardware Engineering and Test Branch Head and Rico’s supervisor. “The veterans and Wounded Warriors on the team not only provide the perspective and operational insight of the warfighter, but they serve as a constant reminder of why we do what we do... they inspire us to ensure we get it right.”

Gary Shearer, Lead Hardware and Embedded Software Architect and Chief Engineer for the Weapon Control Hardware Engineering and Test Branch, said the passion Rico has to serve the warfighter motivates those around him.

“I see the pride and I see the dedication he has to our mission, for instance, direct support to boots on the ground with our weapon systems,” he said. “It helps remind me personally, of why I am really doing the job I am doing, and why it is so important. We want all the ‘Ricos’ to come home safe. He helps to inspire my team because we know that guys and gals just like our Rico need the absolute best systems we can provide. So it is not that he is just doing a job and happens to be a co-worker, his impact runs much deeper for us.”



**Air Force Master Sergeant Stephanie Hueston poses with a B-52 aircraft in British Indian Ocean Territory after finishing mission paperwork for the aircraft's departure in 2009.**

**From Air Force Master Sergeant to Joint Strike Fighter Integrated Product Team Deputy, Logistics Management Specialist**

*“A professional and culturally diverse work environment is what I am used to, especially having a military background, and that is what you get here.” -Stephanie Hueston, NSWC Indian Head EOD Technology Division*

For Stephanie Hueston, joining the NAVSEA team has been the most rewarding decision she has made since retiring from the Air Force in 2012. She served 21 years and nine months as an Air Force Active Duty Enlisted Logistics, Contingency War Planner.

After eight contingency deployments, including two to Iraq, upon her retirement, Hueston said she wanted to continue to serve and contribute to the warfighter, specifically in the air operations world, which her current position at NSWC Indian Head EOD Technology Division allows.

“Working for the Cartridge Actuated Device (CAD)/Propellant Actuator Device (PAD) Division at NSWC Indian Head Explosive Ordnance Disposal Technology Division, managing the Joint Strike Fighter Ejection Seat devices has brought me a sense of fulfillment and accomplishment,” Hueston said. “A profession-

al and culturally diverse work environment is what I am used to, especially having a military background, and that is what you get here at Indian Head: a welcoming, accepting and supportive home. Score!”

Hueston learned about the NAVSEA VWWPO from one of NAVSEA’s Human Resources Specialists and received assistance in making the transition along the way. “I work with many great people, but there is one person in particular who has made my start here easier, and that person is Mr. John Constantine; he took on the responsibility of mentor and guided me through the NAVSEA indoctrination process and helped make my transition from military to civilian life as painless as possible,” she said.

“When Stephanie came on board earlier this year, she immediately went to task of defining rules of engagement for the differing tiers of program office review,” said Constantine, F-35 CAD/PAD E24 Engineering Department Transition Integrated Product Team Lead. “I attest her ability to work the issues she was given to her years of military experience, which taught her how to address problems or concerns head-on, and not let these problems or issues linger.”

“By hiring Stephanie, we have allowed her expertise and training to be used again, this time for the Warfare Centers, and mitigating months, if not years, of training a typical new employee would require,” Constantine said. “Not only has this led to cost and schedule savings, but as also enhanced the position of the program to move forward at a quicker pace than expected.”

It is Hueston’s job to ensure the ejection seat devices are available and service-ready when needed. “Our job at Indian Head – like many other jobs – is vital to the success of Air Force, Navy and Marine pilots’ mission success and survival,” she said. “Loggies, like me, are part of a team of people who work daily to ensure the successful function of Air Force, Navy and Marine aircraft ejection seats.”

One recent illustration that stands out for Hueston was when her division director thanked her and her team for a job well done after learning that an Air Force pilot had safely ejected from his aircraft: “The devices we engineer, test and manage, worked!”

“Knowing when I do my job correctly contributes directly to our country’s national defense makes me proud to be a part of the NAVSEA team,” Hueston said.

LEARN MORE:

Warfare Center Division Wounded Warrior Points of Contact:

- NSWC Dahlgren Division/CDSA Dam Neck: Ally Regan, [margaret.regan@navy.mil](mailto:margaret.regan@navy.mil) (new POC Shane Humphreys effective Nov. 27)

- NSWC Indian Head EOD Technology Division: Lisa M. Robey, [lisa.robey@navy.mil](mailto:lisa.robey@navy.mil)

Visit the NAVSEA’s Veterans and Wounded Warrior Program Office [website: http://www.navsea.navy.mil/Career-Opportunities/Veteran-and-Wounded-Warrior-Program-Office/](http://www.navsea.navy.mil/Career-Opportunities/Veteran-and-Wounded-Warrior-Program-Office/)

## I-Lab

Continued from page 2

vironments, Navy missions, and warfighting requirements were featured to stimulate possible technology and functional solutions.

“Solutions ranged from continued employment of current functional capabilities to the use of autonomy, robotics, quantum computing, and other advances in science that can be installed in Navy ships and assets,” said Nelson Mills, I-Lab’s director of innovation.

On the event’s first day, flag officers and senior government officials spoke with 60 NSWCDD experts about surface, air, and undersea warfare.

“We gained incredible insights from over 20

senior leaders on a variety of surface warfare topics, challenges, and issues,” said Mills. “Team members were exposed to a new brainstorming thought process. They expanded personal networks, met and worked with incredibly talented people, and further developed their ability to innovate while engaging with guest speakers and panels.”

Four panel sessions were conducted on surface force strategy, warfighter perspectives, unmanned systems integration, future fleet structure, digital warfare advances, emerging capability requirements, future technologies, and possible warfighting futures. Panel members conveyed their experience, concerns, issues, knowledge, and vision for the future of surface warfare.

What’s more, the panel discussed Navy themes related to interoperability, mission

planning, enhanced weapons, and an abundance of inexpensive deployed unmanned systems in the Fleet.

**Innovators Throw Away the Rule Book to Solve Future Warfighting Scenarios**

At one point, Naval War College professor Dr. Bundy encouraged workshop participants to “throw away the rule book,” “think out of the box,” “think without a box,” “imagine,” and perhaps most of all “have fun” throughout the workshop.

“The workshop enabled Navy leadership to share current and future Fleet concerns with our new and mid-career personnel to develop united, focused, and creative solutions,” said Mills. “Our innovators were invigorated through motivational speakers as we identified, addressed, and overcame impediments along the way.”

The participants – mostly civilian scientists and engineers as well as a few active duty military officers – responded by brainstorming about technology that enables functional capabilities, including sensors, networks, command and control, weapons, distributed lethality, and battle management concepts.

They broke up into groups that tackled a myriad of naval warfighting scenarios generated by the Naval War College for the 2020, 2025, and 2030 timeframes. On the final day, the breakout groups presented their culminating concepts to Rear Adm. Jesse Wilson, Naval Surface Force Atlantic commander.

Wilson emphasized the importance of innovating to the strategic environment and getting



## BASE HAPPENINGS

### Dahlgren Child Development Center I Has Spaces Available!

The Dahlgren CDC I has space available for parents to enroll children. For more information on how to enroll contact the center at 540-653-4994 or stop by at 727 Sampson Road, building 437.

### Price Change at Gray's Landing

Effective Oct. 1, meal prices at Gray's Landing on the Potomac Restaurant will be increasing by a dollar per meal. Anyone with base access is welcome to dine. New prices as of Oct. 1 will be:

Breakfast: \$6.50  
Soup & Salad: \$7.50  
Lunch: \$9.00  
Dinner: \$9.00

### Dahlgren Chapel Catholic Service

Dahlgren Chapel will now offer a Liturgy of the Hours service followed by a Rosary on Fridays at noon. The service is open to all with base access.

### Second Tour Thrift Store

The store offers a wide assortment of quality used items at incredibly low prices. The store is located at 722 Sampson Rd. and is open Thursdays from 10 a.m.-2 p.m. for all shoppers with base access. 'Like' on Facebook @DahlgrenSecondTour

### Indian Head Santa's Work "Shop"

Dec. 2, 10 a.m.-2 p.m. at the Housing Community Center. Come out and support your fellow spouses and shop small this holiday season! Vendor space is limited, first come — first serve. Vendors must provide their own tables. Base access is required. Contact Laura Pursel at laurabpursel@gmail.com or 910-750-6949 for more information.

### FFSC Relocated at NSF Indian Head

The Fleet and Family Support Center has relocated at NSF Indian Head. FFSC is now located in the Mix House, Bldg D-324 on the top level, room 1.

### Market Fresh Bistro Now Serving Lunch

The Market Fresh Bistro at the Naval Support Facility (NSF) Indian Head Community Recreation (ITT) and General Library is proudly serving Starbucks beverages and breakfast staples as well as freshly made lunch items. The facility is open Monday — Friday, 6 a.m. — 2:30 p.m.

To publish information on your event or program under "Base Happenings," contact Andrew Revelos at 540-653-6012 or email Andrew.revelos1@navy.mil.

## I-Lab

Continued from page 3

new technologies into the hands of Sailors quickly. The next 25 years in the maritime security environment is going to be very different than the last quarter of a century, he told the participants, adding that it's essential to prepare for changes and challenges while innovating to ensure the Navy is ready today and tomorrow.

In all, four teams of NSWCDD scientists and engineers worked with specific scenarios, approaches, and solutions by employing the IDEO (innovation, design, engineering, and organization) process while brainstorming to achieve innovative answers, potential prototypes, and integrated kill chain capabilities. A "kill chain" refers to the process of identifying and thwarting threats, typically from reconnaissance, until the threat is eliminated. It also applies to threats in cyberspace and to the electromagnetic spectrum — identifying and eliminating intrusions in the networks.

The teams' four scenarios were:

- Credible Combat Power in the Sea Frontier: Protection of the U.S. East Coast, West Coast, and Gulf of Mexico in 2020.
- Securing the Maritime Commons: Anti-piracy mission off the Horn of Africa in 2025.
- Maritime Strategic Deterrence: Ballistic Missile Defense-type mission with 40 percent of the U.S. Navy being unmanned in 2025.
- Capstone: Maritime Battle Force: At war in 2030.

Themes comprising autonomy, automation, artificial intelligence, and machine learning were addressed by the teams.

At the conclusion of each scenario — as part of the innovative IDEO framework for the workshop — the teams described their innovative solutions acquired via brainstorming, introduced possibilities along with prototype ideas, and presented a re-



U.S. NAVY PHOTO/RELEASED

**Rear Adm. Jesse Wilson, Naval Surface Force Atlantic commander, emphasizes the importance of innovating to the strategic environment as he spoke to a group of civilian technologists and military officers at the first in a series of Surface Warfare Innovation Workshops held at the Navy's newest Innovation Lab.**

alistic capability solution using a system integration or kill chain approach.

**Technologies for the Future Fleet, USS Zumwalt, Autonomy, and Unmanned Ships**

NSWCDD is planning future Surface Warfare Innovation Workshops to be held at dates to be determined. The events will explore technology and systems development opportunities for the Navy's future Surface Combatant Fleet, potential new capabilities impacting the Navy's most technologically advanced surface combatant — USS Zumwalt (DDG 1000), and autonomy enabled by artificial intelligence and machine learning via unmanned surface ships.

A workshop focusing on the Navy's future surface combatant would assess functional capabilities and alternative sensors, weapons, and control systems envisioned for the future surface combatant Fleet.

"NSWCDD innovators can learn what is initially planned for the Fleet and offer advances in sensors, control-networks,

weapons-effectors, and other technologies," said Mills. "Sponsors for a Future Surface Combatant Workshop would include recently hired NSWCDD engineers and technologists, mid-term engineers and innovators, and OPNAV N96 invited surface warfare officers. The outcome of this workshop would provide assessments of planned and alternative payloads, sensors, and systems; create innovative solutions; and offer Fleet-perspective learning for NSWCDD staff."

A USS Zumwalt capabilities workshop — in cooperation with the Navy's Surface Warfare Directorate and the Commander of U.S. Pacific Fleet — would explore innovative capabilities for Zumwalt Class guided-missile destroyers. It would assess employment roles for Zumwalt Class guided-missile destroyers and explore technologies that will enable role missions, integration, and interoperability with the Fleet.

"Participants should include Fleet planners, Zumwalt Class guided-missile destroyer officers, OPNAV Surface Warfare Directorate personnel, Naval Operations for Information Warfare personnel, OPNAV Future Fleet Design and Architecture staff, NSWC engineers, and other participants who can contribute to the workshop goals," said Mills.

A workshop featuring autonomy enabled by artificial intelligence and machine learning via unmanned surface ships could be held in cooperation with the Deputy Assistant Secretary of the Navy for Unmanned Systems in conjunction with the Navy's surface and undersea warfare centers.

"It would explore near, mid, and far-term unmanned system integration opportunities for unmanned surface ships," said Mills. "These integration opportunities include the range of surface force employment of unmanned surface vehicles and ships. In fact, we identified one functional capability during the inaugural workshop that deserves further assessment and possible technical solutions."



# SOUTH POTOMAC PILOT

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### Connect with us:

Phone 540-653-8153 • 540-284-0129

South Potomac Pilot is published each week on Friday, except holidays, at 29088 Airpark Drive, Easton, MD 21601 by APG Media of Chesapeake, LLC.

For further details about APG, go to [www.chespub.com](http://www.chespub.com).

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**Retail advertising:** Wednesday, 9 a.m.

**Classified advertising:** Wednesday, 5 p.m.

**Editorial submissions:** Friday, noon

**Members:** MDDC Press Assoc., Inland Press Assoc., LMNA, & AFPC

### Letters and submissions

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**DELIVERY SERVICES 866-894-9338 • SUBSCRIBE@CHESPUB.COM**

### Management

**President: David Fike**  
dfike@chespub.com

**Publisher: Art Crofoot**  
acrofoot@chespub.com | 301-848-0175

**Regional Plant & Production Director: Mike Bowen**  
mbowen@chespub.com

**Regional IT & Pagination Director: David Alltop**  
dalltop@chespub.com

**Regional HR Director: Tom Cloutier**  
tcloutier@chespub.com

### Editorial

**Commanding Officer:**  
Capt. Michael O'Leary

**Public Affairs Officer**  
Jeron Hayes

**Editor**  
Andrew Revelos  
Andrew.Revelos1@navy.mil

**Staff writer**  
Barbara Wagner  
bwagner@dcmilitary.com

**Layout designer**  
Matt Getz

### Advertising

**Publisher:**  
**Art Crofoot**  
acrofoot@chespub.com  
301-848-0175

**Classifieds**  
chesAds@chespub.com  
1-800-220-1230

**Legal / Public Notices**  
legals@somdnews.com  
1-877-659-2190



**AUTO SKILLS/  
OUTDOOR  
RECREATION**

540-653-4900

Auto Skills features four bays and three lifts with tools and equipment for do-it-yourself automotive repair, engine diagnostics, suspensions components replacement, tire mounting and balancing and general maintenance. Cost: Active duty, dependents, retirees \$6.00 per hour. All others, \$7.00 per hour, includes one bay, tools, equipment and fluid disposal.

Outdoor Recreation offers a selection of recreation equipment for fishing, camping, picnics, sporting equipment and special events. Download the Outdoor Recreation Gear Issue & Equipment Rental price list, Moon Bounce and Travel Trailer rentals from [www.NavyMWRDahlgren.com/recreation](http://www.NavyMWRDahlgren.com/recreation) and select Outdoor Recreation Rentals.

**CANNONBALL  
LANES BOWLING  
CENTER**  
540-653-7327

Games: Military \$3.00, Civilian \$4.00. Hourly Bowling: Military \$20.00, Civilian \$25.00  
Shoe Rental: Military \$1.50, Civilian \$2.50. Ask about our birthday party packages!

**Have a Ball & Ham It Up**  
Dec. 1-20

Bowl three spares in a row and enter your name to win a Christmas ham! We will draw the names of three winners. The first name to be drawn will also receive a free bowling ball! Standard rates apply.

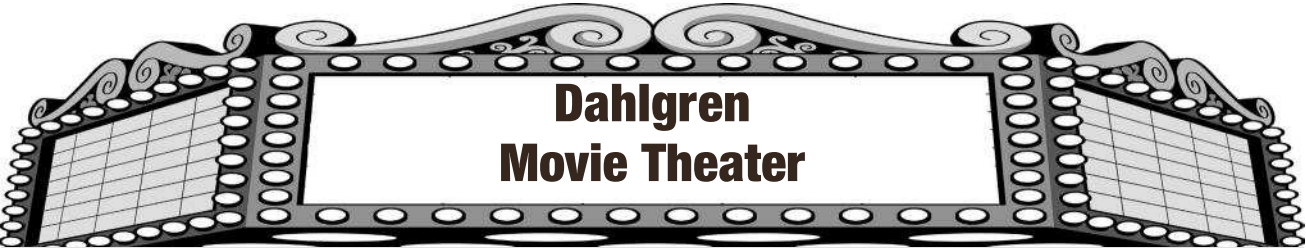
**Christmas Brunch & Bowl**  
Dec. 16, 11 a.m. – 1 p.m.

Santa and Mrs. Claus will be stopping by for brunch and bowling at Cannonball Lanes! Cost: \$7.00 per person including shoes

**DAILY BOWLING SPECIALS**

**Sunday Special**  
Sundays, 11 a.m. – 9 p.m.  
Join us every Sunday for \$2.00 games and \$1.00 shoe rentals!

**Ten Dollar Tuesdays**  
Tuesdays, 11 a.m. – 9 p.m.  
Every Tuesday, get a lane for one hour of bowling for only ten dollars!



**540-653-7336**

Price of Shows — Civilian: \$5.00. Active Duty, Retired & Reserve Mil E7 & above & their family members with ID: \$4.00. E1-E6 & below & their family members with ID: \$3.00. Children (6-11): \$2.00 Children (5 and under): FREE.  
\*Movies shown in 3D will cost an additional \$1 to the ticket price.

**Friday, Dec. 1 7 p.m.** ..... **The Foreigner R**  
**Saturday, Dec. 2 4 p.m.** ..... **Tyler Perry's: A Madea Christmas (FREE ADMISSION) PG-13**  
**Saturday, Dec. 2 7 p.m.** ..... **A Bad Moms Christmas R**  
**Sunday, Dec. 3 2 p.m.** ..... **Thor (FREE ADMISSION) PG-1**  
**Sunday, Dec. 3 4:30 p.m.** ..... **Thor: Ragnarok PG-13**  
**Friday, Dec. 8 7 p.m.** ..... **A Bad Moms Christmas R**  
**Saturday, Dec. 9 4 p.m.** ..... **The Star PG**  
**Saturday, Dec. 9 7 p.m.** ..... **Thor: Ragnarok PG-13**  
**Sunday, Dec. 10 2 p.m.** ..... **The Muppet Christmas Carol (FREE ADMISSION) G**  
**Sunday, Dec. 10 4:30 p.m.** ..... **Murder on the Orient Express PG-13**

*For movie listings online, visit [www.NavyMWRDahlgren.com/recreation](http://www.NavyMWRDahlgren.com/recreation) and select the Dahlgren Theater.*  
**Ask about our birthday party packages!**

**Buy a Game, Get a Game**  
**Wednesdays**  
Wednesdays, 11 a.m. – 9 p.m.  
Every Wednesday, buy one game; get the second game for free!

**All-U-Can Bowl Fridays**  
Fridays, 7 p.m. – 11 p.m.  
Join us every Friday for a two

hour, all you can bowl special!  
Cost: Military \$6.95/person; Civilian \$7.95/person. Both rates include shoe rental.

**Cosmic Bowling**  
Saturdays, 7 p.m. – 11 p.m.  
Enjoy music and lights while bowling!

**CHILD & YOUTH  
PROGRAMS**  
CDC I 540-653-4994 /  
CDC II 540-653-4342  
YAC 540-653-8009  
**Military Child Care Open  
Enrollment**

There's a new way to request care for School Age Care (SAC) and Summer Camps!

Families can now use MCC to request care for SAC programs and Summer Camps all year long. The online system allows you to search for and submit unlimited SAC and Summer Camp requests at any time of

See **MWR**, Page 6

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# MWR

Continued from page 5

the year without waiting for registration to begin! To register and learn more about MCC, visit [MilitaryChildCare.com](http://MilitaryChildCare.com)

## Santa's Calling

Dec. 19, 6 – 7:30 p.m.

Receive a personal phone call from the man in red! Ask Santa questions, tell him what you would like for Christmas and find out if Rudolph's nose really glows bright! Fill out and return the completed registration form to the Youth Activity Center beginning Nov. 27 through Dec. 15. Open to all with base access, children ages 2-11. Cost: Free

## COMMUNITY RECREATION

540-653-8785

### TRIPS

#### Wreaths Across America

Dec. 16

Help volunteer your efforts to this great cause by joining us in laying wreaths for the fallen U.S. soldiers. Register at Tickets & Travel by Dec. 8. Cost: \$5.00

## CRAFTS & CLASSES

### Christmas Embroidery Sale

Dec. 1-18

Location: Craftertech

Bring your Christmas personalization to Craftertech! Embroidery sale begins at \$4.00. Orders must be placed by Dec. 18 to be available for pick up before Christmas.

### DIY Snowglobes

Dec. 14, 11:30 a.m. – noon

Location: Multipurpose Room

Relieve some holiday stress and create your very own snow globe to keep or give as a present! Register at Tickets & Travel by Dec. 11. Cost: \$5.00

### Sip & Paint

Dec. 14, 6:30 – 8:30 p.m.

Location: Gray's Landing

Join us for a night of holiday painting and wine sipping! The painting will feature a snowman. Must be 21 years old and show valid ID to purchase alcohol. Register at Craftertech by Dec. 7. Cost: \$25.00

### Photography 101

Jan. 3, 5 – 7 p.m.

Location: Multipurpose Room

Join us for a class discussing topics such as camera ability, composition, lighting, exposure triangles, and more!

Register at Tickets & Travel by Dec. 21. Cost: \$50.00

### Kiln Fired Bottles & Bead Design

Jan. 10, 4 – 6 p.m.

Location: Craftertech

Bring in your New Year's bottles and we'll slump them to use as a decorative serving plate for cheeses, grapes, olives, crackers and more! Choose beading color and style based on your home décor. Register at Craftertech by Jan. 5 and bring in your bottles to be slumped and prepared for beading. Cost: \$20.00

### TICKETS

#### Busch Gardens

#### Williamsburg Christmas Town Tickets

Valid select dates through Nov. 24 – Jan. 1. BGW Christmas Town 1-Day admission, \$29.50. BGW Christmas Town Fun Card, \$47.75.

#### White House Christmas Ornaments

Purchase a White House Christmas Ornament keepsake honoring President Franklin D. Roosevelt at the Tickets & Travel office. Cost: \$18.50

#### Six Flags Holiday in the Park

Six Flags is offering military/

DoD savings with admission only price of \$25.76. Use promo code: MILITARY0198 at [www.sixflags.com/america](http://www.sixflags.com/america) for exclusive military/DoD savings! For more information, call 540-653-8785.

## CRAFTECH

540-653-1730

Craftertech offers a variety of services including framing and matting, engraving on plaques, metals, glassware, leather, stone and more, embroidery, flag and shadow boxes, Tiffany style stained glass, fusing, bottle slumping and firing.

For more details, visit [www.NavyMWRDahlgren.com/rec-recreation](http://www.NavyMWRDahlgren.com/rec-recreation) and select Craftertech.

### Dahlgren Centennial Collector Items

Order your exclusive Centennial collector items from Craftertech all year long. Items include insulated travel and coffee mugs, playing cards, challenge coins, t-shirts, clocks, pens and holders, lanyards and much more!

## FITNESS CENTER

540-653-8580

Visit us online at [www.NavyMWRDahlgren.com/fitness-sportsto](http://www.NavyMWRDahlgren.com/fitness-sportsto) view the Group Exercise schedule, 2018 Race Series schedule, upcoming classes and leagues!

### RACE SERIES Ugly Sweater 5K

Dec. 6, 11 a.m.

Take your ugliest sweater out for a run! The ugliest sweater with the most votes wins a prize. Register now through 11 a.m. race day. Cost: Active Duty, Free All Others, \$5.00

### SPORTS

#### Holiday Tournaments

Dec. 12, 4:30 p.m. – Volleyball Tournament – Bump, set, spike! Fake a day at the beach with a 6 vs 6 volleyball tournament. Register by Dec. 1. Cost: Active duty, Free. All others, \$5.00

Dec. 14, 4:30 p.m. – Rock the Bells Dodgeball Tournament – Dip and duck to the sounds of Christmas music in this festive dodgeball tournament. Prizes will be awarded. Cost: Active Duty, Free All Others, \$2.00

Dec. 16, 9 a.m. – Holiday Basketball Tournament – Bring your game for the last sports tournament of the year! Cost: Active Duty, Free All Others, \$2.00

## AQUATICS

540-653-8088

### Family Float Night

Dec. 15, 5 – 7 p.m.

Bring your inflatable and float your way into the weekend! Follow the DahlgrenFFR Facebook page to see which movie will be featured. The pool will close at 6 p.m. if no one is present. Open to all with base access. Cost: Regular Admission

## GENERAL LIBRARY

540-653-7474

### December Crafternoon at the Library

Dec. 5, 5 p.m. – Gingerbread Houses & Ornaments – Paint an ornament or make a gingerbread house. Free

Dec. 7, 4 p.m. – Storytime with Santa – Enjoy storytime and pictures with Santa. Free

Dec. 15, 10 a.m. – Holiday Storytime – Join us for a special holiday-themed storytime. We have special treats for all the good boys and girls. Free

### LIBRARY SPECIALS Learn Japanese

Active duty only – Mondays, 2:30 p.m. All others Monday, 4:30 p.m. and Wednesday, 5:15 p.m.

Learning a new language boosts brain power, improves memory, and expands career potential. Join us at the Library as we learn Japanese! Cost: Free

### Paws for Reading

Every second Tuesday at 3:45-5 p.m.

Curl up with a furry friend and read them a story! The General Library will hold Paws for Reading the second Tuesday of every month and give young readers the opportunity to read to their four-legged companion. Reading to a pet can help build confidence in young readers. Register online at <http://engagedpatrons.org/Events.cfm?SiteID=6188> and click on a selected time or call the General Library. Cost: Free

### S.T.E.A.M. Pre-School Literacy Classes

Wednesdays, 5 p.m.

Our S.T.E.A.M. classes are geared toward pre-school and kindergarten-aged children. They will develop their literacy skills as well as engage in the arts and learning experiments. Siblings are always welcome! Cost: Free

### One-on-One Computer Help

Every first Tuesday by appointment

Need help and don't know where to start? Sign up for a one on one session to work on whatever you'd like! Cost: Free

### Early Literacy at your Library

Fridays, 10 a.m.

The Dahlgren General Library offers early literacy sessions for your baby and child, with songs, books, and activities that encourage early literacy development. Storytime and crafts will be geared toward babies and children under age 5. Siblings are always welcome to attend. Our Friday storytimes are a great way to meet other caregivers in the area. Cost: Free

### Sensory Sensitive Saturdays

Saturdays, 1 – 3 p.m.

The library will provide a welcoming environment for sensitive sensory learners. Cost: Free

## LIBERTY CENTER

540-653-7277

The Liberty Center and all activities are for Liberty Center Patrons Only: E1-E6 single/unaccompanied active duty military.

### Football Tailgating

Sundays, beginning at 1 p.m. Watch your favorite teams compete!

### Wing Wednesday & Trivia

Every first and third Wednesday, 3:30 p.m. enjoy wings and a game or two of trivia.

### Free Movie Friday

Every second Friday of the month, 10 p.m. watch a movie on us at the Theater.

### Midnight Bowling

Every fourth Friday of the month at midnight enjoy a game of bowling!

### Tea Light Snowman Craft Day

December 1, 10 a.m. – 10 p.m.

Stop by Liberty and make a tea light snowman ornament to hang on ours or your Christmas tree.

### D.C. Touring Trip

December 2, Depart 10 a.m.

Spend the day in D.C. and take advantage of our Go-Cards to enjoy at least 3 attractions at the fraction of the cost!

### National Dice Day

December 4

We'll be playing dice games all day!

### Christmas Movie Marathon

December 5

Christmas movies all day!



**Holiday Loans**

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**NSWC Federal Credit Union**  
[www.nswcfcuonline.org](http://www.nswcfcuonline.org)



MWR

Continued from page 6

**Wreath Making Craft Day**  
December 7, 10 a.m. – 10 p.m.

Stop by the Liberty Center and make a holiday door decoration!

**Tanger Outlet Shopping Trip**  
December 9, Depart at 9 a.m.  
Get your Christmas shopping in before you head home for stand down!

**Stocking Delivery!**  
December 12  
Be on the lookout for a special surprise from the Liberty Center elves!



*Stay Connected with your Indian Head MWR!*  
**Indian Head Child & Youth**  
CDC 301-744-4458  
CYP 301-743-5456

**Teen Open Recreation**  
Open to ages 13 – 18 from 6:30 – 10:30 p.m. Contact the Youth Center for more information.

**Youth Open Recreation**  
Open to ages 5 – 12 from 6:30 – 10 p.m. Contact the Youth Center for more information.

**Indian Head Community Recreation**  
301-744-4850  
or 301-744-4648

**LIBRARY SPECIALS**  
**Storybook Yoga**  
Thursdays from 10:30 – 11 a.m.

Let's have fun with books and get energized. Open to children and their parents, grandparents and caregivers!  
Cost: Free

**Storytime Play Dates**  
Tuesdays at 10:30 – 11:30 a.m.

Parents grab a cup of coffee and mingle with other moms for play dates at the library. First 10 minutes will be a story, song, and a rhyme followed by free play time. For Toddlers and Preschoolers.

**Candle Making with Crayons**  
Dec. 8, 5:30 – 7:30 P.M.

Have you ever wondered what to do with those broken crayons? Make candles! These would make great gifts for the holidays too! This event is free and open to everyone with base access. Please register by Dec. 6, at Community Recreation.

**SPECIAL EVENTS**  
**Winter Festival and Tree Lighting**  
Dec. 1, 5:30 – 8:30 P.M.  
It is time to celebrate the magic of winter with the lights and sounds of the holiday season!

Come join us for arts and crafts, food, and pictures with Santa, cookie decorating and much more! The event is free and open to all with base access.

**Indian Head Stars & Strikes Bowling Center**  
301-744-4761

Games: Military \$2.00/game; Civilian \$3.00/game; Shoe Rental \$1.00

**Party Rental**  
Rent Stars & Strikes for your next celebration! Cost: 2-hour rental prices are \$60 for military and \$70 for civilians. Price includes 4 private lanes, shoes, cosmic lights and a whole lot of fun!

**BOWLING SPECIALS**  
**Bowling with Santa**  
Dec. 6, 5:30 – 7:30 P.M.  
Santa can hardly wait! He's making his list and checking it twice, to see which good little kids will be at Stars & Strikes! Join us for music, snacks and a meet and greet with the big man himself!

**Open Bowling**  
Fridays and Saturdays, 5 – 10 p.m.

Bored on the weekends? Look no further. Stars & Strikes Bowling Center offers open bowling on Fridays and Saturdays.

**Lunchtime Bowling**  
Wednesdays, 11 a.m. – 1 p.m.  
Take a break from the office and unwind with a game or two of bowling! Want a quick bite while you play? Visit online for the menu. Contact Stars & Strikes for more information.

**Cosmic Bowling**  
2nd and 4th Saturday, 5 – 10 p.m.  
What glows in the dark and is too much fun to miss? Cosmic bowling at Stars & Strikes Bowling Center

**Indian Head Globe & Anchor/ Tiki Bar**  
301-744-6487

Make sure to LIKE us on Facebook to see the exciting drop-in events throughout the month.

**Indian Head Weight House Fitness Center**  
301-744-4661

**Indian Head Liberty Center**  
301-744-4524

The Liberty Center and all activities are for Liberty Center Patrons Only: E1-E6 single/unaccompanied active duty military.

**Monday Night Football**  
Every Monday beginning at 8:00 p.m.

Come watch your favorite football teams compete.

**Holiday Cards**  
Dec. 1, – All Day  
Swing by Liberty to create a FREE holiday card. We'll mail it for you!

**Arundel Mills Shopping Trip**  
Dec. 2, 11:00 A.M.  
Get your holiday shopping done early this year with Liberty! The trip is FREE; just bring your shopping money. You must register by Nov. 28 at the Liberty Center.

**Help us Decorate Liberty**  
Dec. 5, 6:00 P.M.  
Help us decorate the Liberty Center for the holiday season. This is your center so you get to choose the design. Snacks will be provided.

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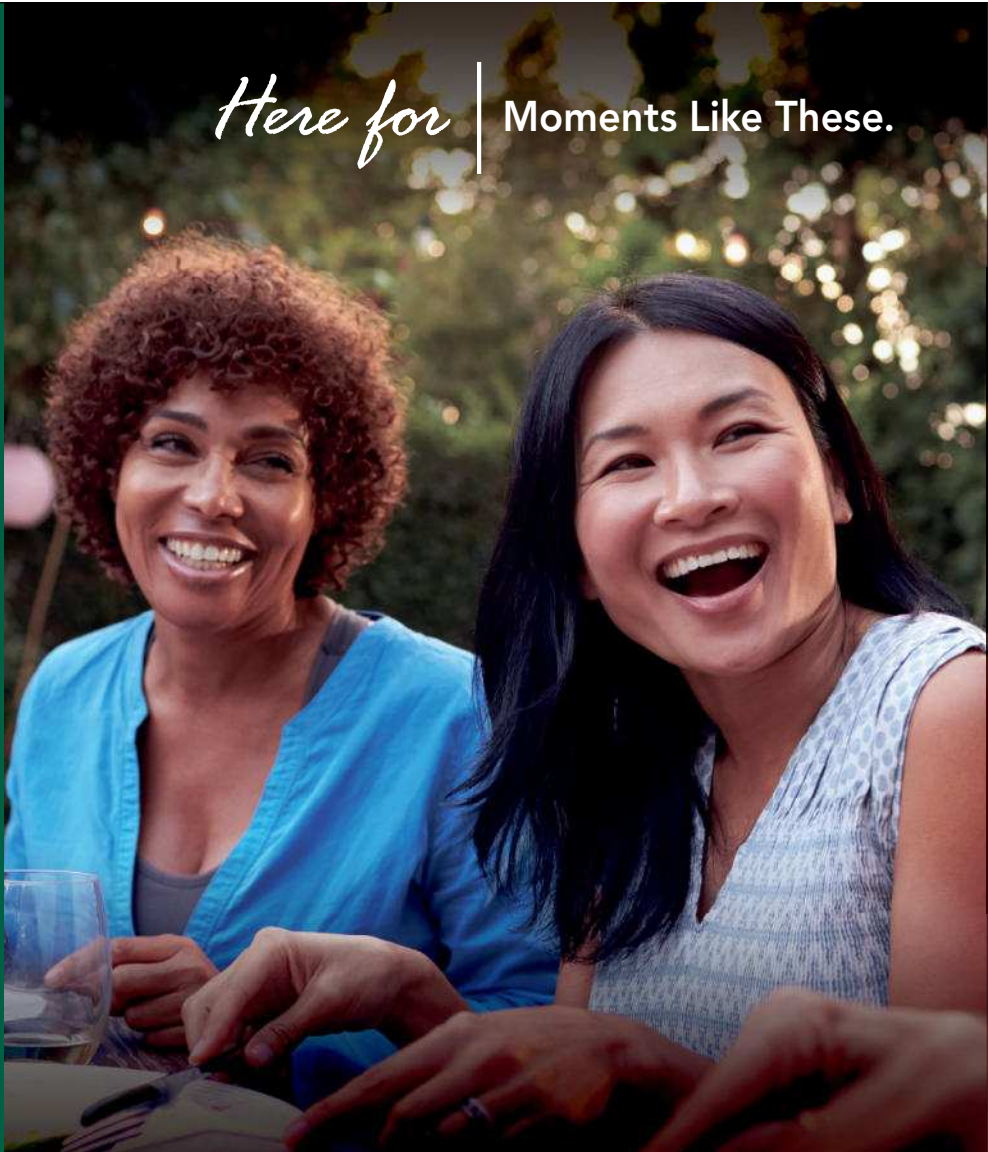
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