



NPS IN THE NEWS

Weekly Media Report – Mar. 30 – Apr. 5, 2021

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ACADEMICS:

1. [Dr. Scott S. Gartner Takes the Helm as NPS' 16th Provost & Academic Dean](#)

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(NPS.edu 5 Apr 21) ... Mass Communication Specialist 2nd Class Tom Tonthat

The Naval Postgraduate School (NPS) and its community of students, faculty and staff welcomed Dr. Scott Sigmund Gartner to campus as he officially assumed the position of Provost and Academic Dean, March 1. Gartner, a political scientist and expert in international security, comes to NPS from Penn State University where he served as director of the Penn State School of International Affairs and was Professor of International Affairs, Law, Engineering Systems and Political Science.

2. [NPS Earns Max 10-Year Re-accreditation from WSCUC, Again](#)

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RESEARCH:

4. [Xerox touts 3D printing capability](#)

(Rochester First 31 Mar 21) ... Mark Gruba

Xerox is authoring a new chapter in its storied history with the new Xerox ElemX 3D Printer... Rosman said the Xerox team in Rochester played the most critical role in developing the technology. "All of the engineering and design work on the ElemX 3D Printer has been done out of our facility right here in Webster. It was really impressive how the team was able to leverage Xerox's knowledge in liquid physics and product development and put that into the ElemX liquid metal product development. So the team in Webster has been absolutely instrumental in launching this product and having our first successful install at the **Naval Postgraduate School.**"



5. Xerox's Liquid Metal 3D Printing Solution Builds Resilience in Supply Chains

(Albawaba 1 Apr 21)

Last year, the global supply chain experienced significant disruption. Starting off in February 2020 in China, this supply chain shock then spread to wider global distribution networks... Xerox and the **Naval Postgraduate School (NPS)** announced a strategic collaboration focused on advancing additive manufacturing research, specifically 3D printing, which has the potential to dramatically transform the way the military supplies its forward-deployed forces.

6. Nonproprietary Approach to Additive Puts Xerox in Navy Crosshairs

(Industryweek 5 Apr 21) ... Peter Fretty

Xerox collaborates with the **Naval Postgraduate School** to research how additive can add flexibility to armed service supply needs.

7. Report Warns of Shortage of Military Working Dogs

(Legal Insurrection 4 Apr 21) ... Leslie Eastman

A recently published report from the U.S. Navy's **Naval Postgraduate School** warns that a domestic shortage of military working dogs is threatening national security.

FACULTY:

8. NPS Military Professor Selected for Prestigious Fulbright Scholar Program

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U.S. Navy Cmdr. Thor Martinsen, an applied mathematics professor, has become the first Naval Postgraduate School (NPS) Permanent Military Professor (PMP) to receive a Fulbright U.S. Scholar award that will allow him to visit the University of Bergen (UiB) in Norway and collaborate on research during the 2021-2022 academic year.

9. 10 pioneering women in information security

(CSO 30 Mar 21) ... Deb Radcliff

In the 1950s, women were calculating U.S. space missions, and by the 1960s they were programming mainframe computers. So, it should come as no surprise that there are also many remarkable female pioneers in computer and information security... Dorothy Denning was a key thought leader in cryptography at the time Guttman met with her in 1993. Denning, still professor emeritus at the **Naval Postgraduate School** in Monterey, California, is a lifetime academic and author of four books and more than 200 articles, mostly around information security. In 1975, Denning's doctorate thesis paper on securing information flow between computers was well ahead of its time, as was her first book, *Cryptography and Data Security*, published in 1982 while she was associate professor at Purdue. Computers weren't connected back then and there was no internet for commercial use. Still, her paper looked ahead to the day when people would use computers to do things like prepare their tax forms.

10. UI professor helps to develop an ethics course for the U.S. Navy

(The Daily Iowan 31 Mar 21) ... Marco Ocegueda

Associate Professor of Philosophy Jovana Davidovic has played an important role in the effort to modernize the U.S. Navy and prepare it for future military challenges by helping develop a Navy Ethics course alongside some of the top ethics and philosophy researchers in the nation... Bradley Strawser, an associate professor of philosophy at the **Naval Postgraduate School** in Monterey, California, echoed these statements by highlighting the unique ethical dilemmas that exist in military contexts.

11. Indo-Lankan narco-terrorist network is worrying

(MENAFN 5 Apr 21) ... Sugeeswara Senadhira

Colombo, April 5: Indian security officials believe that the interception of a Sri Lankan boat carrying 300 kilograms of heroin, five AK-47 guns and ammunition off the coast of Vizhinjam in Kerala in South India last week points to a network of narco-terrorists with strong links to a group in Sri Lanka... That was the era in which the distinction between organized crime and new terrorism, as distinguished from old terrorism, had blurred. According to A P Wickramasekara, a Sri Lankan researcher at the **Naval Postgraduate School** in California, referring to the convergence of TOC and new terrorism in Sri Lanka proposed three hypotheses: First, new terrorism often avails



itself of the means and methods of organized crime. Second, increasing TOC and the existing ethnic and religious disharmony pose a national security risk in Sri Lanka, increasing its vulnerability to new terrorism. Third, a lack of national strategies have prevented Sri Lanka from harnessing the instruments of national power to the fullest.

ALUMNI:

12. Pilot: Carrie L. Zimmerman

(NASA 30 Mar 21)

Carrie L. Zimmerman is a research pilot at NASA's Armstrong Flight Research Center in Edwards, California. She joined Armstrong's flight operations staff in March 2021 and flies the Gulfstream III ([G-III](#)) mission support aircraft... Zimmerman earned a Bachelor of Science in space operations in 1997 at the United States Air Force Academy in Colorado Springs, Colorado; a Master of Science in aerospace science in 2006 at Embry-Riddle Aeronautical University (worldwide campus); and a Master of Science in defense analysis (special operations) in 2010 at **Naval Postgraduate School** in Monterey, California.

13. Old hand aboard guided-missile warships picked to lead Navy Region Hawaii

(Stars and Stripes 29 Mar 21) ... Wyatt Olson

A veteran of numerous stints aboard guided-missile warships has been chosen to lead Navy Region Hawaii, which oversees 23,000 acres of land and sea in and around Hawaii, the Pentagon said Monday in a news release... Kott is a 1990 graduate of the U.S. Merchant Marine Academy at Kings Point, N.Y. He holds master's degrees in financial management from the **Naval Postgraduate School** and in national security strategy from the National War College.

14. Former Astronaut Winston Scott Named to EFSC Board of Trustees

(Eastern Florida State College 30 Mar 21)

Governor Ron DeSantis has appointed former NASA astronaut Winston Scott to the Eastern Florida State College Board of Trustees... He is former Navy Captain who also served as Vice President of Student Affairs at Florida State University and Executive Director of the Florida Space Authority. Scott earned a Bachelor's Degree in music education from FSU and his Master's Degree in aeronautical engineering from the United States **Naval Postgraduate School**.

15. Profiles in Space - From officer to contractor, Jeff Douds, 1st Space Brigade

(DVIDS 2 Apr 21) ... Sgt. 1st Class Aaron Rognstad

Aside from the 2,800 plus military personnel and civilians working in U.S. Army Space and Missile Defense Command, there are also dozens of military contractors providing critical services in everything from operations to public affairs... I think it is unique that I was a member of both the first and last Space Support Element (SSE) deployed to Iraq. In 2005, while I was assigned to SMDC in the G-3 Strategy and Policy Division, the need arose for a backfill for the 3rd ID SSE which was then deployed to Camp Victory, Iraq. I had not served in Iraq yet, since I was in graduate school at the **Naval Postgraduate School** (NPS) from 2002 to 2004, so I was at or near the top of the list to deploy.

16. Richard Giusti sworn in as new chief of Bryan Fire Department

(DVIDS 2 Apr 21) ... Megan Rodriguez

City leaders welcomed Richard Giusti, who will serve as the new chief of the Bryan Fire Department, with enthusiastic applause as he was sworn in Thursday afternoon... The incoming chief earned a Master of Arts degree in homeland security from **the Naval Postgraduate School** Center for Homeland Defense and Security, a Bachelor of Arts degree in disaster and emergency management from American Military University, and two Associate of Applied Science degrees in fire science and instructor of technology and military science from the Community College of the Air Force.



UPCOMING NEWS & EVENTS:

April 8: Virtual Town Hall

April 13: [V-SGL with Vice Admiral Jon A. Hill: Missile Defense and Technology Warriors](#)

April 15: President's next "Ask me Anything" 1500 –1600

April 20-22: [Naval Research Working Group \(NRWG\) 21](#)



ACADEMICS:

Dr. Scott S. Gartner Takes the Helm as NPS' 16th Provost & Academic Dean

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The Naval Postgraduate School (NPS) and its community of students, faculty and staff welcomed Dr. Scott Sigmund Gartner to campus as he officially assumed the position of Provost and Academic Dean, March 1. Gartner, a political scientist and expert in international security, comes to NPS from Penn State University where he served as director of the Penn State School of International Affairs and was Professor of International Affairs, Law, Engineering Systems and Political Science.

Gartner is no stranger to NPS or its unique mission of defense-focused graduate education and research. As a visiting professor and instructor at NPS, he taught and advised students on critical geopolitical topics, but this experience also created a gravity to the university's mission that drew him back to NPS.

"I can't think of a mission that's more important than educating our officers, particularly our Naval officers," said Gartner. "Naval officers need to make decisions independently and rapidly, with the security of our nation and their Sailors in mind. I can't imagine a more important impact on the force.

"NPS serves as an interdisciplinary bridge between the academic and applied worlds in a way that uniquely supports the Navy and Joint Force," he continued. "What I think interested me most in 2014-15 was the amazing people and sense of community here. The people were really the strongest draw for me, and I feel very privileged to be a part of NPS."

As Provost, Gartner believes NPS is a vital research resource for the DOD as it bridges both STEM and non-STEM disciplines. Students at NPS have the ability to fulfill core coursework in their technical disciplines, but then also have the opportunity to understand the strategic context of what they learn, he explained. And it works both ways, with non-STEM disciplines understanding the technical side as well, he added.

Gartner says he would prefer to be familiarizing himself with the university campus and community as it would ordinarily operate. Although that's difficult during the COVID environment, it does not mean he's not accessible.

"It's real important to me that everyone at NPS has a voice; that they understand not just what they're involved in, but the larger efforts that we're trying to achieve, and how what they're doing fits," said Gartner. "I want to hear all ideas, so it's really important to me that I am considered the Provost for all faculty, students, staff AND alumni."

Gartner has already started putting his thoughts and ideas into practice, expanding opportunities for student input and thinking about how alumni engage with NPS following graduation.

"The student voice is very important to me and I'd like to see us expand it," said Gartner. "I'm already working to put students on committees. I'm also in discussions with the NPS President and the Alumni Association and Foundation about how we can support our alums after they leave. We should think of our students as both lifelong learners and lifelong teachers. We have a lot to learn from them, and I think they have more to learn from NPS after they graduate too."

A lifelong learner himself, Gartner says he has been focused on exploring different perspectives on leadership through his current readings. He's been inspired recently by learning more of Eisenhower's leadership in World War II; the visionary abilities of tech giants like the late Steve Jobs; and those who struggled to be allowed to lead, such as the three black women mathematicians at NASA who played a major role in getting America into space. All unique and different in their approach and execution of leadership, he noted, with a common theme of encouraging others to be agents of change.

For himself, Gartner prioritizes a philosophy of leadership by example and inclusion, and says he has every intent of working right alongside his peers.



“I haven’t given up being a faculty member, both in terms of my perspective and the university,” said Gartner (who is a tenured faculty member in Defense Analysis). “I’m still trying to achieve research. I have two university press books coming out this year, one on wartime decision making and the other on great power dynamics, and I’m working on articles applying AI to terrorism and looking at suicide in the military. I’d like to think of myself as an active researcher and I’m hoping once I get a year or so of provost under my belt to also be an active teacher and spend some time in the classroom.”

Gartner recognizes that he has joined the university at a time of potential instability and change, between COVID, potential flux in higher education, and budget pressure from the Pentagon. But, he says, he places a very high priority on listening to the NPS community and he welcomes any and all perspectives and feedback.

“I try to be as sensitive and empathetic to all of the issues as I can be, and it’s certainly been a hard year.” he said. “But I’m absolutely committed to our students, faculty and staff. If people have ideas about things we can do to provide more support to our community or the greater military or naval community, or our alums, I’d like to know about it, and if there’s anything I can do to be more supportive.”

Gartner received his undergraduate and master’s degrees in history and international relations, respectively, from the University of Chicago, and a master’s and doctorate in political science from the University of Michigan. He is married to Dr. Diane Felmler, a Distinguished Professor at Penn State, and he has two daughters who live in the San Francisco Bay Area. Gartner’s hobbies include hiking, biking, music and reading.

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NPS Earns Max 10-Year Re-accreditation from WSCUC, Again

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(NPS.edu 1 Apr 21) ... Mass Communication Specialist 3rd Class James Norket

On March 3, the Western Association of Schools and Colleges Senior College and University Commission (WSCUC) reaffirmed the Naval Postgraduate School’s (NPS) overall effectiveness by reaccrediting the university for the next ten years, the maximum a university can achieve.

As a deliverer of technological and intellectual advantage for American seapower, receiving the maximum 10-year accreditation demonstrates that NPS provides a top-tier education and learning environment to future leaders throughout the Navy, Marine Corps and beyond.

On the heels of the accreditation, affirming the results, NPS received high marks in the latest “U.S. News and World Report” graduate school rankings, released this week. Programs in Graduate Schools of Defense Management (GSDM) and Engineering and Applied Sciences (GSEAS) were recognized.

Ranked #1 in the specialty category of Homeland Security and Emergency Management, GSDM also ranked in the top 25 percent of graduate schools across the nation for public affairs and is accredited by the Network of Schools of Public Policy, Affairs and Administration (NASPAA). Also breaking the top 100, GSEAS engineering programs were ranked 93rd (five way tie) out of 221 total schools nationwide. Programs specifically mentioned include Aerospace/Aeronautical/Astronautical, Electrical and Systems Engineering.

According to NPS President retired Vice Adm. Ann E. Rondeau, NPS is the Navy’s applied research university, which makes it a unique place among our nation’s accredited universities.

“The one thing we do differently than anywhere else is solve complex defense problems leveraging the research-based, graduate education process,” said Rondeau. “The WSCUC team was tremendously impressed at what they saw, heard and experienced about our university. They commended everyone’s



passion for the NPS mission and the academic advancement of students, and the distinctive and forward-looking education we provide our students through innovative programs of study and research.

“With this re-accreditation, NPS will not just continue its unique mission, but advance its mission,” continued Rondeau. “We will advance deeper into preparing technology leaders and solutions to Naval and national security problems. NPS is a very special place to learn, teach and work, and we will continue to fulfill the Navy’s mandate and our own vision of being the finest graduate institution available to our military men and women and DoD partners.”

As Vice Provost for Academic Affairs Dr. Doug Moses noted, the accreditation process is a quality assurance process.

“[Accreditation] is external academics coming in and reviewing how we operate,” said Moses. “They assess us to provide some assurance that we have high-quality academic programs that are serving the needs of our students. While there's areas that we certainly want to put attention to get even better, we were told we are a high performing university.”

While NPS has received the 10-year accreditation multiple times in the past, this achievement comes with another, prestigious designation for the university. NPS was one of eight schools selected by WSCUC, the same agency that accredits other top-tier universities like Stanford and Cal Tech, to participate in the first-ever Thematic Pathway for Reaffirmation (TPR). This streamlined approach was made available only to high-performing institutions.

According to WSCUC, TPR is an alternative accreditation renewal pathway designed for institutions that demonstrate consistent evidence of healthy fiscal condition, strong student achievement indicators, and sustained quality performance. This new path is as rigorous as the regular institutional review with a special timeline during which institutions can focus on self-selected themes that advance their mission, coordinate with their strategic planning, and promote institutional improvement.

“This tells an onlooker that we have a strong level and quality of education at NPS,” said Dr. Mary Sims, Associate Dean of Academics and Accreditation Liaison Officer. “It tells them that we have been doing things in a forward-looking manner for a long time. It tells them that if they come here, they're going to get a quality outcome. Their degree has real meaning and real prestige based on what independent accreditors believe that we are capable of, and our rankings support their assessment.”

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NPS Announces the Graduate School of International and Defense Studies

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The Naval Postgraduate School’s (NPS) School of International Graduate Studies (SIGS) has officially changed its name to the Graduate School of International and Defense Studies (IDS), effective Apr. 1, to better reflect the international and national security dimensions of their curricula and the school’s focus on defense-related research and education.

The newly-renamed IDS is comprised of the National Security Affairs Department, the International Graduate Programs Office, the Institute for Security Cooperation support, and the Center for Homeland Defense and Security.

“We are not simply another ‘international relations’ graduate school,” noted IDS Dean Dr. James Moltz. “Instead, we are a security-focused educational institution with unique expertise in such topics as Great Power Competition, homeland security, and regional security affairs.”

The name change should help the school better communicate its unique mission of defense studies, NPS officials said, while remaining relevant and appropriate to its current students.

“NPS has a long history of providing outstanding graduate education in internationally-relevant defense topics that profoundly impact our understanding of great power strategic dynamics,” said Dr.



Scott Sigmund Gartner, NPS Provost and Academic Dean. “This change of name to the Graduate School of International and Defense Studies reflects a more accurate title for the school whose mission is to provide for the research and education needs for military officers of our allies and partners.”

The graduate school’s mission will remain the same, which is to “Provide high-quality graduate education and conduct research programs focused on international relations and regional security to meet the needs of the nation and our international partners, and to build partnership capacity.”

Moving forward, IDS will be looking to develop new partnerships on campus as well as with various combatant commands, including the United State Strategic Command, to bolster the school’s offerings in the areas of strategy and Great Power Competition (GPC).

“IDS is well positioned to help drive the development of new strategic concepts and new international relationships,” said Moltz. “The school is also developing inter-disciplinary programs to supplement its existing expertise.”

Further advancing IDS’ strategic education portfolio, the school has developed two curricula leading to a master’s of science degree in strategy. Uniquely NPS, the programs combine a focus on strategy and technology, working in cooperation with the university’s Space Systems Academic Group. One track focuses on strategy and space operations while another will focus on strategy and nuclear command, control, and communications.

“With the name change, IDS looks to further the mission of NPS,” said Gartner. “This adds to the goal of competing in Great Power Competition and further strengthening our relationships with our partners, making NPS a clear leader in defense education.”

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RESEARCH:

Xerox touts 3D printing capability

(Rochester First 31 Mar 21) ... Mark Gruba

Xerox is authoring a new chapter in its storied history with the new Xerox ElemX 3D Printer.

Tali Rosman, the Xerox Vice President and General Manager of 3D Printing, discussed the technology and its applications Wednesday during our Greater Rochester Enterprise Why ROC conversation.

“Complex supply chains today leave manufacturers vulnerable and I think COVID made it really clear,” explained Rosman.

“It’s really hard to get the part that you want when you want it. What we’re doing at Xerox is bringing our century of experience and business-critical technologies and applying that to 3D printing to Additive Manufacturing helping customers produce production-grade parts in hours instead of weeks, and producing them locally instead of relying on these complex and often unreliable supply chains.

“We’ve just launched our ElemX 3D liquid metal printer, which is using wire instead of powders, which gives a much better customer experience to make sure that customers can get the part that they want, when they want it, on-demand, without needing to build tens of millions of dollars worth of inventory.”

Rosman said the Xerox team in Rochester played the most critical role in developing the technology. “All of the engineering and design work on the ElemX 3D Printer has been done out of our facility right here in Webster. It was really impressive how the team was able to leverage Xerox’s knowledge in liquid physics and product development and put that into the ElemX liquid metal product development. So the



team in Webster has been absolutely instrumental in launching this product and having our first successful install at the **Naval Postgraduate School**.”

There are numerous possibilities when it comes to the benefits of the ElemX 3D Printer according to Rosman, beginning with Xerox’s strategic collaboration with the Naval Postgraduate School.

“Their goal – eventually – is to reduce the military supply chain by putting 3D printers on ships. Now, obviously, this is a long-term vision but it’s an incredible vision to not have to carry inventory or worry about having parts on ships because you can just 3D print it on-demand. We have a similar vision for future manufacturing customers as well, whether they’re in aerospace, automotive, heavy machinery, or other industries that we can cater to. So having the ElemX Printer will allow them to print the parts that they need on-demand, when they need it, giving them a much more flexible and resilient supply chain.”

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Xerox’s Liquid Metal 3D Printing Solution Builds Resilience in Supply Chains

(Albawaba 1 Apr 21)

Last year, the global supply chain experienced significant disruption. Starting off in February 2020 in China, this supply chain shock then spread to wider global distribution networks.

Last year, the global supply chain experienced significant disruption. Starting off in February 2020 in China, this supply chain shock then spread to wider global distribution networks. As the global economy crashed, it exposed vulnerabilities in organizations production and supply chain strategies globally. Temporary trade restrictions and shortage of necessities and commodities such as pharmaceuticals and medical supplies also magnified their weaknesses. The global pandemic highlighted the vulnerabilities in every organization’s supply chain, some with devastating results.

3D printing reinforces supply chain’s resilience by enabling elastic, demand-based production and just-in-time manufacturing; cutting delivery time, logistics cost, and carbon footprint, supporting production at multiple, dispersed sites close to customers. 3D printing also facilitates reshoring of work produced offshore and produces spare and replacement parts.

3D printing is the additive process of joining materials to create objects based on digital models. The joining occurs layer by layer, with one layer of material added to another in a continuous process.

As complex global supply chains leave manufacturers and their customers vulnerable to external risks, Xerox presents a 3D liquid metal printing solution to build resilience in supply chains. This unique liquid metal 3D printing technology reduces manufacturers’ Total Cost of Ownership (TCO) compared with traditional production methods.

Xerox’s 3D Liquid Metal Printing Solution - Xerox® ElemX™ Liquid Metal Printer

The Xerox ElemX printer uses cost-effective aluminium wire to fabricate end-use parts that can withstand the rigours of operational demands. This ability to produce reliable replacement parts on-demand reduces the dependency on complex global supply chains for deployed forces.

Xerox and the **Naval Postgraduate School** (NPS) announced a strategic collaboration focused on advancing additive manufacturing research, specifically 3D printing, which has the potential to dramatically transform the way the military supplies its forward-deployed forces.

NPS was the first to receive an installation of the Xerox ElemX™ Liquid Metal Printer on the university campus in December 2020. The Xerox solution will provide NPS faculty and students with hands-on exploration of new ways the technology can deliver on-demand 3D printing of metal parts and equipment.

“Global supply chains leave industries like aerospace, automotive, heavy equipment, and oil and gas vulnerable to external risks,” said Tali Rosman, vice president and general manager, 3D Printing, Xerox. “Our goal is to integrate localized 3D printing into their operations”.

[Xerox’s Liquid Metal 3D Printing Solution Builds Resilience in Supply Chains | Al Bawaba](#)



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Nonproprietary Approach to Additive Puts Xerox in Navy Crosshairs

(Industryweek 5 Apr 21) ... Peter Fretty

Xerox collaborates with the **Naval Postgraduate School** to research how additive can add flexibility to armed service supply needs.

Additive manufacturing has undoubtedly enjoyed significant attention over the past year -- and for good reason. As supply incidents have hampered day-to-day operations, additive technology has enabled manufacturers to find creative ways to fill immediate needs. Understandably, this was great for additive as a whole. However, more importantly, it has helped manufacturers better understand where the technology can fit going forward, especially when collaborating with technology providers and educational institutions.

Case in point? Xerox and the Naval Postgraduate School (NPS) recently announced a strategic collaboration focused on advancing additive manufacturing research, specifically 3D printing, which has the potential to dramatically transform the way the military supplies its forward-deployed forces. The goal is to conduct thesis research to develop new capabilities for the Navy and Marine Corps.

Xerox as part of a Collaborative Research and Development Agreement (CRADA), NPS was the first to receive an installation of the Xerox ElemX liquid metal printer on the university campus in December. The deployment will provide NPS faculty and students with hands-on exploration of new ways the technology can deliver on-demand 3D printing of metal parts and equipment.

“The military supply chain is among the most complex in the world, and NPS understands first-hand the challenges manufacturers must address,” said Xerox Chief Technology Officer Naresh Shanker. “This collaboration will aid NPS in pushing adoption of 3D printing throughout the U.S. Navy, and will provide Xerox valuable information to help deliver supply chain flexibility and resiliency to future customers.”

Tali Rosman, vice president and general manager, 3D printing at Xerox tells IndustryWeek, “In this collaboration, the ultimate vision is a long-term plan of enabling the placement of 3d printers on ships to make the spare parts are available on demand instead of either keeping inventory or needing to send parts into the ships. We are learning a lot from their feedback – what works and what doesn't, what aspects are user friendly, what is less intuitive and where we need to help.”

Down to the wire

As Xerox developed its approach to additive manufacturing, it was squarely focused on supply chain resiliency. “We looked at the inefficiencies present in today’s supply chains. And COVID really brought that point home, in terms of emphasizing how supply chains are actually not as resilient, as people thought,” she says. “After all, 80% of the companies in the US struggled to get the parts that they needed in 2020. We really think our technology is also unique in a lot of senses, but mostly around the use of wire, instead of the powders the vast majority of the metal 3d printer today use today.”

The Xerox ElemX printer uses cost-effective aluminum wire to fabricate end-use parts that can withstand the rigors of operational demands. This ability to produce reliable replacement parts on-demand reduces the dependency on complex global supply chains for deployed forces and also addresses the hidden costs of traditional manufacturing.

“Starting with wire makes our technology much easier to implement and integrate into existing manufacturing operations because there is no need for expensive facility modifications in order to accommodate for a printer,” she says. “Our goal is to help with the supply chain resiliency without creating a whole new host of issues to tackle.”

Xerox is using Aluminum 4008, which has similar properties to cast alloy 356. As such Xerox is seeing customers use it to make part that are typically aluminum, zinc or magnesium because its properties allow it to serve as a replacement. These are often low volume spare parts such as parts for an aircraft, tractor or digital presses that have been around for 15-20 years. “The type of use cases include instances where finding spare parts is difficult, where it is hard to find the drawing or where it does not make sense for the original supplier to fill an order using traditional manufacturing methods,” she says.



Using wire is also cost effective, explains Rosman. “While it can vary by part, on average versus powder bed fusion, wire is 40% cheaper and 40% faster,” she says. “Some of that has to do with the material cost because we're using non-proprietary standard wire. The savings also come from the faster cycle times since there is no need to do any powder removal at the end meaning the post processing is much faster using less labor and taking less time.”

[Nonproprietary Approach to Additive Puts Xerox in Navy Crosshairs | IndustryWeek](#)

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Report Warns of Shortage of Military Working Dogs

(Legal Insurrection 4 Apr 21) ... Leslie Eastman

A recently published report from the U.S. Navy’s **Naval Postgraduate School** warns that a domestic shortage of military working dogs is threatening national security.

“Although working dogs are not an official part of the current defense industrial base, the low domestic production capacity of working dogs threatens some of the government’s capabilities to provide national security,” researchers wrote in the report. “Of the dogs within the current workforce, approximately 90% were bred overseas.”

Military working dogs are normally one of four breeds: German Shepherd, Belgian Malinois, Dutch Shepherd or Labrador Retriever. Many are imported from Europe.

Their tasks include detecting explosives, sniffing out drugs and tracking enemies.

“A lot of our science and technology for years has been trying to replicate the work these dogs do. Their olfactory glands are 10,000 times more sensitive than any piece of equipment we’ve been able to develop. So, the detection work they do, a dog finding explosives or drugs, that’s never going to be replaced,” Major Matthew Kowalski, commander of 341st Training Squadron at Joint Base San Antonio, said, according to the report.

Sheila Goffe, president of the American Kennel Club, shed some light on the situation in her commentary on the report.

The federal government currently maintains approximately 5,000 working dogs across four departments — the Departments of Defense, Homeland Security, Justice and State. But only 7 percent are bred domestically, and the rest are imported from Europe, the report found. Another estimated 5,000 working dogs are deployed across local law enforcement and private facilities, with a similar low percentage bred domestically.

The best dogs tend to be retained for use in Europe, where they are bred. And the U.S. finds itself in the position of competing against military peer competitors Russia and China for the same dogs in the same markets.

The supply of capable working dogs from foreign sources is continuing to tighten. The threat of terrorism and resulting demand for working dogs within Europe and around the world means there’s a growing shortage of even mediocre-quality foreign dogs available to protect the U.S.

The Department of Defense maintains a modest breeding program at its kennels at Lackland Air Force Base in San Antonio, far from sufficient to meet domestic demand.

The report had several recommendations to resolve this security issues, the chief one being for the federal government to create a program/consortium by partnering with other government agencies and non-profit organizations to absorb or subsidize some or all of the costs necessary for a business to start a breeding program. As the current administration is tossing money at everything, why not something that will actually protect Americans?

Other ideas include restricting imports to spur on the domestic market, public-private partnerships, and reworking procurement procedures. However, there is one last option that the report did not address:

The first official semi-autonomous robot dogs were delivered to Tyndall Air Force Base March 22 for integration into the 325th Security Forces Squadron.



The purpose of the Quad-legged Unmanned Ground Vehicles, or Q-UGVs, is to add an extra level of protection to the base. The robot dogs, designed by Ghost Robotics and Immersive Wisdom, are the first of their kind to be integrated onto a military installation and one of many innovation-based initiatives to begin at Tyndall AFB, coined the “Installation of the Future.”

“As a mobile sensor platform, the Q-UGVs will significantly increase situational awareness for defenders,” said Mark Shackley, Tyndall AFB Program Management Office security forces program manager. “They can patrol the remote areas of a base while defenders can continue to patrol and monitor other critical areas of an installation.”

Features applied to the robot dogs allow for easy navigation on difficult terrains. The robot dogs can operate in minus 40-degree to 131-degree conditions and have 14 sensors to create 360-degree awareness. They are also equipped with a crouch mode that lowers their center-of-gravity and a high-step mode that alters leg mobility, among other features.

I also have a few thoughts on resolving this national security situation. The current occupant of the White House may be just the leader needed to spearhead the effort to increase the U.S. supply of fierce fighting dogs. Also, our current Secretary of Defense could focus on species diversity programs.

[Report Warns of Shortage of Military Working Dogs \(legalinsurrection.com\)](https://www.legalinsurrection.com)

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FACULTY:

NPS Military Professor Selected for Prestigious Fulbright Scholar Program

(Navy.mil 31 Mar 21) ... Mass Communication Specialist 2nd Class Tom Tonthat

(NPS.edu 31 Mar 21) ... Mass Communication Specialist 2nd Class Tom Tonthat

U.S. Navy Cmdr. Thor Martinsen, an applied mathematics professor, has become the first Naval Postgraduate School (NPS) Permanent Military Professor (PMP) to receive a Fulbright U.S. Scholar award that will allow him to visit the University of Bergen (UiB) in Norway and collaborate on research during the 2021-2022 academic year.

With the Fulbright Scholarship, which provides opportunities for U.S. academics to teach, research or do projects abroad, Martinsen will collaborate with UiB faculty and carry out research on the properties of Boolean functions used in cryptographic algorithms. Martinsen said that understanding Boolean function properties and behaviors will help to build secure cryptographic systems.

Martinsen credits his years as a Naval officer for helping him stand out in the Fulbright U.S. Scholar selection process.

“[The University of Bergen] has a secure communications research center, focused on research similar to the type of work I do at NPS,” said Martinsen. Prior to becoming a PMP, I was a Navy Cryptologic Warfare Officer who did information warfare, cryptography, and things of that nature. I bring to the table not only the theoretical stuff, but practical experience.

“I will use this experience along with my doctoral education and research expertise to team with our Norwegian allies and help conduct important cyber security research,” he continued. “I think part of the reasons my application was so successful, was that I bring some of that operational knowledge to the forefront.”

In addition to research, the Fulbright Scholarship is an opportunity for Martinsen to extend diplomacy to Norway through the sharing of knowledge.

“The Fulbright is a cultural exchange program,” said Martinsen. “On the cyber security side, it’s important that we help our allies out and it’s a team fight. [NPS] is an international campus of sorts, and we have lots of allies here, so this [Fulbright] goes further to extend that relationship with Norway. Even though I go as a Fulbright, I’m also working on an opportunity through the Navy Engineers and Scientists Exchange Program where a Norwegian scientist can potentially visit NPS for an extended period of time and collaborate with us on research.”



Martinsen noted that he is not just going to Norway as a researcher representing NPS, but he is going as an ambassador for the United States.

“Extending the reach and being an ambassador to show some of the things we do is what’s really important,” said Martinsen. “That’s why I’m very pleased to get this opportunity to showcase NPS. Not many folks get this opportunity through Fulbright. Whenever we can showcase NPS and demonstrate the quality of our faculty, it helps NPS. I’m very fortunate to have that opportunity.”

Martinsen’s Fulbright U.S. Scholar award recognizes not only his accomplishments, but also NPS’ ability to provide quality graduate level education.

“This represents so many things that are critical to NPS,” said Dr. Scott Gartner, NPS Provost and Academic Dean. “One is our commitment to excellence that is recognized globally. Fulbright Scholarships are an outstanding achievement. His permanent military factor reflects a second item aspect that I think is really critical for us, which is that we have military and civilian faculty working together to reach our primary military and civilian students. I think it’s a win-win in terms of both of NPS’ excellence and in demonstrating that military faculty can achieve national recognition for their contribution to knowledge.”

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10 pioneering women in information security

(CSO 30 Mar 21) ... Deb Radcliff

In the 1950s, women were calculating U.S. space missions, and by the 1960s they were programming mainframe computers. So, it should come as no surprise that there are also many remarkable female pioneers in computer and information security.

In honor of Women’s History Month, here are some of these women and their key contributions to the field.

Codebreakers and signal hoppers

Let’s start with WWII female codebreakers, like former Navy lieutenant Judy Parsons, a graduate of Carnegie Institute of Technology who joined the US Navy’s WAVES (Women Accepted for Volunteer Emergency Service). She and her OP-20-G group of WAVES helped sink 95 German U-boats during WWII thanks to their codebreaking efforts.

Parsons was one of thousands of women working in different security capacities during the war from 1939-1945. They broke new ciphers used by German and Japanese forces and provided a funnel of intelligence that Allied Forces used to uncover enemy locations, sink ships, down planes, and ultimately win the war. Navy women built the computing machines needed to decrypt the Enigma cipher, after another female, Mavis Bately, deciphered a message and learned how the Nazi Abwehr Enigma machine worked.

During the same time period, another leading lady, Hedy Lamarr, in 1941 patented her invention for radio frequency 'signal hopping' to defeat enemy jamming signals, allowing Allied Forces to hide their torpedoes from the Nazi forces. Signal hopping is the concept behind secure WiFi, BlueTooth and GPS used today.

At the time of her patent, Lamarr was more widely recognized for her beauty as a big-screen movie star than her brain as an inventor. But she did find allies in Howard Hughes and John F. Kennedy, who supported her with equipment to invent and experiment in her actor’s trailer. Lamarr, who died in 2000, was inducted into the Inventor’s Hall of Fame in 2014.



Setting new standards

Finding allies is a big help when you're a woman in infosec, says Renee Guttmann, one of the earliest females to hold information security leadership roles, starting with GlaxoSmithKline in 1994. There, Guttmann implemented firewalls and encryption products before there was a commercial internet to connect to.

Guttmann later built Capital One's security program for customers' first online activities (retrieving statements), and then became the first-ever director of IT security for Time, Inc., in 2000, eventually running security for both Time Inc. and Time Warner where she was VP of information security and privacy. She's also won several awards for her work in the corporate sector, including the CSO Compass Award in 2008, and a Woman of Influence Hall of Fame award from the Executive Women's Forum in 2007.

"I remember a meeting with other security women in 1993, including Donna Dodson from NIST, Dr. Dorothy Denning [from Georgetown University at the time], and other smart females leading the infosec charge back then. Many of them went on to start companies and powerful careers around infosec," says Guttmann, who's now CISO at Campbell Soup Company.

"I remember debating encryption and certificate management with them in a small meeting room with ten people and wondering if these things would ever matter to anyone but us," Guttmann says.

Dodson, NIST fellow and chief of cybersecurity for the NIST IT lab, retired in 2020 from her final role there as the director for NIST's National Cybersecurity Center of Excellence. She started at NIST in 1987, and NIST cites her contributions to artificial intelligence, internet of things, quantum-resistant cryptography, and privacy engineering (among others). She was awarded one of the top ten most influential people in government IT in 2011 and is recipient of the Presidential Rank Award in 2019.

Back in the early days, there were no CISOs, Dodson reiterated in her NIST retirement interview. So early female CISOs like Guttmann and Rhonda MacLean, who held leadership posts at Boeing and Bank of America in the late 1990s, came up truly creating the job on the fly.

When Guttmann started the job at Time Inc., for example, no one knew what a CISO-level manager was supposed to do. At first leading information security for a magazine company (in 2000) seemed like a pretty easy job. But then she went to the business units and started asking them questions about their business and potential risks—essentially helping to frame the business-focused role of a true CISO today.

"I remember wanting to learn how I could best support the mission of Time Inc. I met with the leaders of several business units to better understand the Company," she explains. "One of the first groups I met with was Finance. I learned that we had millions of credit card numbers between our different magazine titles, and that we were also fulfilling subscriptions for other notable magazines. This was well before the Payment Card Industry standard even existed. But coming from Capital One, I had already built a program around card protection."

Leading the discussion

Dorothy Denning was a key thought leader in cryptography at the time Guttmann met with her in 1993. Denning, still professor emeritus at the **Naval Postgraduate School** in Monterey, California, is a lifetime academic and author of four books and more than 200 articles, mostly around information security. In 1975, Denning's doctorate thesis paper on securing information flow between computers was well ahead of its time, as was her first book, *Cryptography and Data Security*, published in 1982 while she was associate professor at Purdue. Computers weren't connected back then and there was no internet for commercial use. Still, her paper looked ahead to the day when people would use computers to do things like prepare their tax forms.

"The question I had was, how can I share sensitive information with this type of application, but in a way that the app could not squirrel away my sensitive information. I was looking at the flow of information going through a program so that you could stop it from leaking," she explains.

"Then I kept on finding new topics to research. To me, security was always about the intellectual interest. I saw the challenging and interesting problems with security."

Becky (Rebecca) Bace was also another influential woman in Guttmann's orbit back in the 1980s and 1990s and stayed a presence until Bace's death in 2017. Because she had epilepsy, Bace was advised to



simply collect social security instead of working. Instead, Bace, who was a unique combination of Alabaman and Philippino heritage, went to several engineering schools and then joined the NSA in 1984.

Due to her funding of security technologies through the NSA's incubator programs, she was nicknamed the den mother of intrusion detection. In 2016, the year before Bace's death, O'Reilly Publishing created the Rebecca Bace Pioneer Award to celebrate other security heroes like her.

Shortly before passing, Bace drove three hours to support Guttman as she received an award for her accomplishments. "That speaks to her level of kindness and generosity with her time. She always gave back like that, which inspires most of us. We all need role models like Becky," Guttman says.

Investing in the next generation

After leaving the NSA, Bace went into private investments and continued funding innovative security startups. Now, other women are following in her footsteps, starting their own funding firms to support security startups.

One is Dr. Chenxi Wang, former Carnegie Mellon professor and Forrester analyst, and now founder and general partner at Rain Capital. Her portfolio includes numerous security startups.

Another female funding partner, Maria Cirino, founded 406 Ventures after pioneering one of the first female-run cyber security companies, Guardent, which she ran from 2000 until it was acquired by Verisign in 2004. Onapsis, Pwnie Express, and Threat Stack are among her portfolio companies.

The list certainly goes on. Today, there are thousands of women leading information security in a variety of roles, and receiving more acknowledgement for their participation in the industry, who have a number of support and networking groups behind them.

The key is do what you love and forge your own path, say those who've gone before. "I love my work and continue to learn new things. Now at Campbell, I am making a difference in industrial OT. That's exciting," Guttman says.

"Learn to understand and help others understand. Be curious! And don't let anyone try to stop you from achieving your goals and being a change agent in cybersecurity."

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UI professor helps to develop an ethics course for the U.S. Navy

(The Daily Iowan 31 Mar 21) ... Marco Ocegueda

Associate Professor of Philosophy Jovana Davidovic has played an important role in the effort to modernize the U.S. Navy and prepare it for future military challenges by helping develop a Navy Ethics course alongside some of the top ethics and philosophy researchers in the nation.

The ethics course development is part of a larger national initiative taken up by the Navy to establish a U.S. Naval Community College, which would allow Navy sailors and certain Marines and Coast Guard enlistees across the world to work toward their college education while deployed overseas.

The U.S. Naval Community College piloted this year with around 500 members after the release of the U.S. Navy's 2020 Education for Seapower Strategy report, a comprehensive report which analyzed every piece of the Navy's education curriculum and recognized the strategic necessity of education for maintaining a U.S. military advantage in an increasingly competitive world.

Davidovic specifically said that the increasing importance of technology and artificial intelligence in military contexts is another driving reason for the emphasis on education within the Navy.

"The military is very much aware that they need AI capabilities going forward," Davidovic said. "We're fighting against the Great Powers and what we need is technology and cyber knowledge."

Davidovic said she will also be at the Naval Leadership Center next year to help develop guidelines for AI ethics in the Navy.

Currently, only Navy officers and other higher-up officials within the Navy receive ethics training and education. Lower-ranked individuals, including sailors and other enlistees on the frontlines do not



currently receive that same education. This leaves them less equipped to make difficult moral decisions, Davidovic said.

Davidovic added that the moral trauma caused by war and mortality is an often overlooked yet significant issue for enlistees and can potentially be mitigated with the introduction of a Navy ethics course.

“It’s not just psychological trauma,” Davidovic said. “There is also a term called moral injury, which is an injury to the moral self and the values you have, which is also part of who you are and what shapes you.”

Michael Skerker, professor in the department of leadership, ethics, and law at the U.S. Naval Academy was also involved in developing the ethics course. By providing sailors and other lower-level enlistees with the same ethics education that is provided to officers, Skerker said he hopes there will be a more common understanding of morality within the Navy.

“I hope that in the future this [course] can help sailors make better moral choices and engage in moral deliberation,” Skerker said. “So, if they see a colleague doing something that they think is wrong, they will have the skills to confront them with a sort of common language.”

Skerker said that the course is designed differently from a standard ethics or philosophy course at a university and is tailored to apply specifically to situations faced by military personnel.

Bradley Strawser, an associate professor of philosophy at the **Naval Postgraduate School** in Monterey, California, echoed these statements by highlighting the unique ethical dilemmas that exist in military contexts.

“A 20-year-old enlisted sailor on a ship in the Indian Ocean is facing some different ethical challenges and questions than a 19-year-old taking community college classes,” Strawser said.

Strawser said that the ethics course will become a core piece of the curriculum that all sailors will eventually be required to complete.

Davidovic added that while the Navy is facing a new reality where even lower-level enlisted individuals will need to have more education to participate, there are motivations beyond the strategic benefit that increased education has for strengthening U.S. Navy capabilities.

The ethics course and wider U.S. Naval Community College initiative also provides greater opportunity for enlisted individuals to pursue an education while serving overseas, opening the door to new opportunities beyond the military.

“The Navy, in the long-term, wants every single enlisted person in the Navy and Marines to be able to get the equivalent to an associate degree,” Davidovic said.

[UI professor helps to develop an ethics course for the U.S. Navy - The Daily Iowan](#)

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Indo-Lankan narco-terrorist network is worrying

(MENAFN 5 Apr 21) ... Sugeeswara Senadhira

Colombo, April 5: Indian security officials believe that the interception of a Sri Lankan boat carrying 300 kilograms of heroin, five AK-47 guns and ammunition off the coast of Vizhinjam in Kerala in South India last week points to a network of narco-terrorists with strong links to a group in Sri Lanka.

Indian officials told the media that the network has created sleeper cells in Sri Lanka and other neighboring countries. They added that the drug income is then used to fund illegal activities, including extremist activities.

The Indian Coast Guard and the Narcotic Control Bureau (NCB) found heroin worth Rs 3,000 crore (LKR 720 million) stashed in the boat along with AK-47 rifles and 1,000 rounds of 9mm ammunition.

'A number of incriminating documents were also seized from the occupants of the vessel,' said the NCB, adding that six Sri Lankan nationals were arrested. The investigations so far have revealed that an unknown vessel carried the heroin and arms consignment from Chabahar Port, Iran, and handed them over to the Sri Lankan fishing boat, Ravihansi, in the high seas near Lakshadweep.



Ravihansi then attempted to traffic the consignment to Sri Lanka when the Indian authorities intercepted it. NCB officials said that earlier that Sri Lankan authorities, too, had seized drugs worth Rs 2.5 billion that had been smuggled from the Gwadar port.

Sri Lanka has become a vulnerable transshipment hub for Transnational Organized Crime (TOC) since the Tamil terrorists commenced drug trafficking and money laundering in the 1980s. The LTTE smuggled drugs to raise money for arms and ammunition. However, after establishing links with Norway, Canada and few other Western countries the LTTE transferred its drug money into legitimate businesses in the West.

Organized crime and new terrorism

That was the era in which the distinction between organized crime and new terrorism, as distinguished from old terrorism, had blurred. According to A P Wickramasekara, a Sri Lankan researcher at the **Naval Postgraduate School** in California, referring to the convergence of TOC and new terrorism in Sri Lanka proposed three hypotheses: First, new terrorism often avails itself of the means and methods of organized crime. Second, increasing TOC and the existing ethnic and religious disharmony pose a national security risk in Sri Lanka, increasing its vulnerability to new terrorism. Third, a lack of national strategies have prevented Sri Lanka from harnessing the instruments of national power to the fullest.

A case study evaluates the al Qaeda and the Abu Sayyaf Groups as potential examples of a TOC-new terrorism nexus. The thesis statistically proves increasing TOC trends and provides evidence on the emerging roots of Islamic radicalization that might lead to new terrorism, which could pose serious threats to the national security of Sri Lanka.

Dr Dhruvajyoti Bhattacharjee of the Indian Council of World Affairs pointed out that terrorism stands as a method of combat in which random or symbolic victims serve as instrumental targets of violence. In his research paper, 'Narco Terrorism and South Asia', he says that narco-terrorism could be defined as the 'use of organized terror to secure control over a state by another state or organized criminal networks or by insurgents or by a combination of any or all of them to achieve fixed political, economic or social objectives based on organizational and financial empowerment through drug trafficking.'

The involvement of the LTTE in narcotic transactions in 1980s included bulk delivery of heroin and cannabis from producing areas in Asia via transit points to destinations in consuming countries, conveying relatively small consignments of heroin concealed in personal baggage from suppliers in Asian countries to intermediary contact persons in the Middle East, North Africa, South Africa and western countries, the operation of drug distribution networks dealing in consuming regions or countries and working as couriers between dealers and distributors.

Contraband trade between India and Sri Lanka

Contraband trade between India and Sri Lanka has, for long, been a lucrative commercial enterprise, controlled, for the most part, by gangs operating from both sides of the Palk Strait. While Velvettithurai is thought to have served as the foremost center of smugglers from Sri Lanka, on the Indian side, Chennai, Tuticorin, Pattukotai, Rameshwaram, Tiruchendur, Ramnad, Nagapatnam, Cochin and a host of smaller localities inhabited by fishing communities have figured prominently among smuggler bases and hideouts.

Although terrorism is not a recent phenomenon and has been playing an important role in the world from the eighteenth and the nineteenth centuries, since the 1960s terrorism has been the child of war waged by imperialist powers. The current Islamic terrorism is by and large a byproduct of the conflicts initiated by Western powers to control countries such as Afghanistan, Iraq, Syria, Libya and Iran.

The Indian Coast Guard seizure of the drugs and arms consignment on 25 March was not the first. In early March, there was another seizure. Indian security sources told the media that a Dubai-based smuggler was working for a multi-national drug smuggling racket, and the money from this had been used to create unrest, and fund extremism. They said the money was used for the 2019 Sri Lanka Easter bombings and fuelling the farmer protest in India. According to Rakesh Asthana, the Director-General of the NCB, this network has cells in Sri Lanka, Maldives, Dubai, and East Africa.

In January this year, M.M.M. Nawas, a Sri Lankan national was arrested by the Narcotics Control Bureau along with his compatriot Mohamed Afnas for alleged involvement in an international drug trafficking racket. They had travelled to Gulf nations on a fake Indian passport. 'Investigations are under way to determine the facts. Both were living in Chennai under assumed identities after they fled Sri Lanka,' a Customs official said.

'Nawas is wanted for an attempt to murder the Sri Lankan narcotics control bureau's inspector, Rangajeeva, on 9 May 2017. He went underground thereafter,' the official added. Nawas is said to be a key associate of Kanjipani Imran, now lodged in jail.

The accused arranged vessels to transport drug consignments from the Gwadar port in Pakistan through maritime routes to transit points in Sri Lanka and the Maldives. Payments were made through the 'hawala' channel via Dubai.

Imran worked with the Sri Lankan underworld figure Makandure Madhush. Madhush was killed in a crossfire between the police and some drug peddlers in October last year. They had earlier operated from Dubai, where they were arrested in 2019 and extradited to Sri Lanka.

'In the recent past, some point-men for drug smugglers in Sri Lanka have been found operating from Tamil Nadu,' Indian security officials said, adding that a probe was under way to find out if Nawas had developed links with local criminal gangs for logistics support.

Last year, the drug enforcement agencies found that another Sri Lankan national, Angoda Lokka, a notorious drug trafficker and associate of Madhush, had been living in India since 2017. He died under mysterious circumstances in Coimbatore in July 2020. Lokka had fled Sri Lanka following an attack on a prison bus in February 2017, in which rival gang leader 'Samayan' was killed along with five other jail inmates and two prison officials. According to the Indian NCB, the drug trafficking network involving Nawas has links in Afghanistan, Iran, the Maldives and Australia.

The Indian Coast Guard and NCB announced that the six Lankans in the boat 'Ravihansi' were: LY Nandana, HKGB Dassppriya, AHS Gunasekara, SA Senarath, T Ranasingha and D Nissankawere. They are in custody.

[Indo-Lankan narco-terrorist network is worrying | MENAFN.COM](#)

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ALUMNI:

Pilot: Carrie L. Zimmerman

(NASA 30 Mar 21)

Carrie L. Zimmerman is a research pilot at NASA's Armstrong Flight Research Center in Edwards, California. She joined Armstrong's flight operations staff in March 2021 and flies the Gulfstream III ([G-III](#)) mission support aircraft.

Prior to joining Armstrong, Zimmerman was hired by UPS Airlines in 2018 as a first officer on the Boeing 747-400 and 747-8F aircraft, flying cargo worldwide.

Zimmerman served as a combat search and rescue pilot and special operations pilot in the U.S. Air Force from 1997 until her retirement in 2018, logging more than 5,800 hours of flight time, including more than 1,100 combat hours. She worked as an instructor pilot, evaluator pilot and aircraft commander in multiple aircraft, including the C-21A, M/HC-130P and CN-235. Zimmerman also served in various aircrew and leadership positions at the flight, squadron and wing levels. She held a joint staff position as chief of Strategy Plans and Policy for Headquarters Special Operations Command Europe from 2011 to 2013 in Stuttgart, Germany. She also served as commander of the 347th Operations Support Squadron (2014-2016) and then as wing inspector general (2016-2018) while assigned to the 23d Wing at Moody Air Force Base in Georgia. She was selected for promotion to the rank of colonel before deciding to retire from active duty in August 2018.



Zimmerman earned a Bachelor of Science in space operations in 1997 at the United States Air Force Academy in Colorado Springs, Colorado; a Master of Science in aerospace science in 2006 at Embry-Riddle Aeronautical University (worldwide campus); and a Master of Science in defense analysis (special operations) in 2010 at **Naval Postgraduate School** in Monterey, California.

She is a member of Women Military Aviators, The Ninety-Nines, Women in Aviation International, Air Commando Association and the Air Force Association. She co-authored “The Theory of Dark Network Design,” a master’s thesis published in Small Wars Journal.

Zimmerman co-founded the nonprofit organization, The Milieux Project, which connects girls to aviation and science, technology, engineering and math (STEM) through mentorship, advocacy and scholarship. The organization produces the “Grow Her Wings” podcast.

Zimmerman splits her time between Anchorage, Alaska, and Palmdale, California, with her husband, Michael Zimmerman (retired USAF), and their two dogs.

[Pilot: Carrie L. Zimmerman | NASA](#)

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Old hand aboard guided-missile warships picked to lead Navy Region Hawaii

(Stars and Stripes 29 Mar 21) ... Wyatt Olson

A veteran of numerous stints aboard guided-missile warships has been chosen to lead Navy Region Hawaii, which oversees 23,000 acres of land and sea in and around Hawaii, the Pentagon said Monday in a news release.

Rear Adm. Timothy J. Kott will also assume command of Naval Surface Group Middle Pacific, which is responsible for maintenance and training of all surface ships and their crews homeported at Joint Base Pearl Harbor-Hickam, Hawaii.

The Pentagon also announced that Rear Adm. Blake L. Converse, current commander of U.S. Pacific Fleet’s Submarine Force in Pearl Harbor, will become deputy commander of U.S. Pacific Fleet.

Rear Adm. Jeffrey T. Jablon will take command of the Submarine Force, the Pentagon said last month.

Kott will replace Rear Adm. Robert B. Chadwick II, who will move to San Diego to command Carrier Strike Group Nine.

Kott is a 1990 graduate of the U.S. Merchant Marine Academy at Kings Point, N.Y. He holds master’s degrees in financial management from the **Naval Postgraduate School** and in national security strategy from the National War College.

Among his sea assignments were navigator aboard the USS Flatley, a guided-missile frigate; operations officer on the USS Hue City, a Ticonderoga-class guided missile cruiser; and executive officer on the USS Hopper, an Arleigh Burke-class guided-missile destroyer.

His major command tour was aboard USS Mobile Bay, a Ticonderoga-class guided-missile cruiser. Kott is currently commander of Carrier Strike Group One, a position he has held since June.

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Former Astronaut Winston Scott Named to EFSC Board of Trustees

(Eastern Florida State College 30 Mar 21)

Governor Ron DeSantis has appointed former NASA astronaut Winston Scott to the Eastern Florida State College Board of Trustees.

Scott, of Melbourne, is a Senior Vice President at the Florida Institute of Technology and former NASA astronaut who flew on two space shuttle missions in 1996 and 1997, logging over 24 days in space and conducting three spacewalks with nearly 20 hours outside the spacecraft.



He is former Navy Captain who also served as Vice President of Student Affairs at Florida State University and Executive Director of the Florida Space Authority. Scott earned a Bachelor's Degree in music education from FSU and his Master's Degree in aeronautical engineering from the United States Naval Postgraduate School.

"I'm excited to be joining the Board and look forward to working with the leadership to continue moving the college forward. EFSC is an excellent institution that offers students great opportunities and plays a vital role in the life of the Space Coast," said Scott.

"I also believe my experience at Florida Tech will help enhance the already strong partnership that exists between EFSC and FIT in many areas."

EFSC President Dr. Jim Richey said Scott brings unique knowledge to the college that will be invaluable, especially as it continues to expand programs that are creating a pipeline of highly skilled employees for rapidly growing commercial aerospace companies near the Kennedy Space Center.

"Winston is a superb addition to the Board and I look forward to working with him. I'm also grateful to Governor DeSantis for appointing him."

Scott's appointment is subject to confirmation by the Florida Senate.

Scott replaces Moses Harvin, who has served on the Board since 2011 and helped transform what had been Brevard Community College into Eastern Florida State College in 2013.

During his tenure, the college has launched 60 new academic programs including 25 Bachelor Degree tracks and become recognized as one of the top state colleges in Florida.

"All of us at the college are indebted to Moses for the dedication and leadership he has brought to our students and community. We could not have had achieved as much as we have without him," said EFSC President Dr. Jim Richey.

Harvin, a retired Army Major, is President and CEO of American Services Technologies Inc., which serves the federal government including the Army, Air Force, Department of Veterans Affairs and Department of Energy.

[Eastern Florida State College | Former Astronaut Winston Scott Named to EFSC Board of Trustees](#)

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Profiles in Space - From officer to contractor, Jeff Douds, 1st Space Brigade

(DVIDS 2 Apr 21) ... Sgt. 1st Class Aaron Rognstad

Aside from the 2,800 plus military personnel and civilians working in U.S. Army Space and Missile Defense Command, there are also dozens of military contractors providing critical services in everything from operations to public affairs.

One of these contractors is Jeff Douds. Douds has worked as a contractor (currently with Apogee Engineering, LLC) supporting the 1st Space Brigade plans and operations office (S-3) for the past three-and-a-half years. He retired from the Army in 2017 as a lieutenant colonel.

His 26-year career in the Army began as an enlisted Soldier serving at Fort Carson from 1987 to 1989. While an enlisted Soldier, he applied for, and earned a Green-to-Gold scholarship to attend the University of Colorado at Colorado Springs (UCCS). He graduated from UCCS in 1993 (along with Col Eric Little) with a bachelor's degree in physics and a minor in mathematics. He became an FA-40, Space Operations Officer, in 2004 and served in multiple FA-40 jobs throughout the Army and SMDC to include SMDC Strategy and Policy (G-3), a joint assignment at the National Security Space Office (NSSO), the Space Support Element (SSE) chief for both the 25th Infantry Division and 2nd ID, and a certifications and evaluations branch chief at SMDC Training, Readiness, and Exercises (G-37).

I recently had the opportunity to speak with him about his beginnings, his career, his time in the Army and SMDC, as well as his family, hobbies and passions in life.



Q: Where are you from and what was your childhood like?

A: I was born in Illinois, but we moved around a lot and by the time I got to the fourth grade we were in Charleston, West Virginia, which is what I consider to be my hometown. I'm from a family of five children. My dad was in the Army – both enlisted and officer – and he served in the Korean War. Like me, after his enlisted time, he attended college (at West Virginia University, earning a bachelor's degree in economics) and then served in the Army again. He chose the Army Reserves, however, and was a company commander in the Special Forces before deciding to transition full-time to the civilian world.

Q: What were some of the highlights of your career?

A: I think it is unique that I was a member of both the first and last Space Support Element (SSE) deployed to Iraq. In 2005, while I was assigned to SMDC in the G-3 Strategy and Policy Division, the need arose for a backfill for the 3rd ID SSE which was then deployed to Camp Victory, Iraq. I had not served in Iraq yet, since I was in graduate school at the **Naval Postgraduate School** (NPS) from 2002 to 2004, so I was at or near the top of the list to deploy.

I served on the 3rd ID SSE for the tail-end of their deployment (August to December 2005) as an individual augmentee and then returned to my assignment at SMDC. I served as the SSE chief for the 25th ID from 2010 to 2013, serving almost the entirety of 2011 once again at Camp Victory, Iraq, under Operation New Dawn.

Q: How did you fall into SMDC?

A: When I was in Germany finishing my company command I had the opportunity to apply to single-track on a functional area to no longer serve under my basic branch. I enjoy the technical/scientific aspect of things so I looked for something along those lines. FA-40, Space Operations, seemed like a perfect fit. I applied and was accepted. To make it even better, I was able to kick off the process with two years at the Naval Postgraduate School (NPS) in Monterey, California, where I earned a master's degree in space systems operations. My first assignment after NPS was with SMDC.

Q: What are your top three passions in life?

A: Quality time with family and friends; exercising and being outdoors. I used to very much enjoy running but injuries have taken that away from me now, but I still enjoy bicycling and hiking, and continual learning. I like to read, play chess, and do things that keep my mind active.

Q: Who is your immediate family composed of?

A: My wife, Solly, and two daughters, Tachiana and Ashley who are 26 and 21 years old.

Q: What is it about Army Space that is interesting to you?

A: I like being in an ever-evolving field. It was nice that I was able to retire from the Army, but still be very involved in Army Space. The nation has extraordinary capabilities that arise from the use of space assets, but the aspect of Army space that I enjoy is playing a part in getting these capabilities into the hands of the warfighter at the lower levels, as well as making sure our Soldiers are aware of the vulnerabilities associated with the use of space assets and can take appropriate actions to counter the vulnerability.

One thing is clear, once a space warrior, always a space warrior.



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Richard Giusti sworn in as new chief of Bryan Fire Department

(The Eagle 2 Apr 21) ... Megan Rodriguez

City leaders welcomed Richard Giusti, who will serve as the new chief of the Bryan Fire Department, with enthusiastic applause as he was sworn in Thursday afternoon.

Giusti, who is replacing retired Chief Randy McGregor, was previously with the San Antonio Fire Department, where he served as the assistant fire chief. Giusti was unanimously selected for the Bryan job out of 44 qualified applicants in a nationwide search.

In San Antonio, Giusti said there were about 1,800 people working in the fire department compared to the approximately 150 in Bryan. The smaller size is something that Giusti sees as an upside of working in Bryan, as he said it will make it far easier to get to know every person who works for him.

When he started to learn more about the city of Bryan, Giusti said he was increasingly impressed with the fire department, the community and the city's leaders.

"I don't know how I lucked into this position," he said as he praised the support of those he has met in Bryan. "I really don't. I feel very blessed. I really do."

As he settles into the new position, Giusti said he wants to have a 90-day period in which he talks to every firefighter about what they like and dislike about the department, what they would do differently if they were in his shoes, and what their short- and long-term goals are. This effort to get to know people's thoughts, Giusti said, will help him know if changes are needed in the near future.

"Right now, I'm just going to look at trying to absorb the culture of the fire department and try to live the good life here in Bryan — Texas style, as you guys say."

Giusti is a former master sergeant in the United States Air Force and has served as an instructor at Louisiana State University's National Center for Biological Training and San Antonio College.

The incoming chief earned a Master of Arts degree in homeland security from **the Naval Postgraduate School** Center for Homeland Defense and Security, a Bachelor of Arts degree in disaster and emergency management from American Military University, and two Associate of Applied Science degrees in fire science and instructor of technology and military science from the Community College of the Air Force.

"Chief Giusti is passionate about his job as public servant as well as the safety of his firefighters and the public he has sworn to serve," Bryan City Manager Kean Register told dozens of ceremony attendees. "That's why we hired him."

When Giusti was sworn in, he was accompanied by his wife, son, daughter and soon-to-be-daughter in law. Four leaders from the San Antonio Fire Department also attended the ceremony, including SAFD Chief Charles Hood.

In his remarks to attendees at Bryan Fire Station No. 1, Hood said that Giusti will help enhance Bryan, emphasizing that Giusti has "weathered storms" and is "capable and ready" for the new role.

"He's going to come up with some great ideas," Hood said of Giusti. "Be flexible, be patient, and most of all be supportive and know that he's going to take care of each and every one of you so you can go out and take care of the families that live in this community."

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