



## Congratulations Summer Quarter Graduates!



Naval Postgraduate School Summer Quarter Graduates were honored in a hybrid ceremony on September 24. Vice Adm. Roy Kitchener, Commander, Naval Surface Forces/Commander, Naval Surface Force, U.S. Pacific Fleet, known as the "Surface Warfare Officer (SWO) Boss" recognized the achievements of the 294 graduates, including 23 international students from five countries, and highlighted the direct relationship between their studies at NPS and our Nation's defense capabilities.

"The Naval Postgraduate School has long recognized the connection between technology and warfighters

– people drive technology, and then technology improves our human ability, and neither can accomplish the mission purely on its own," said Kitchener. "In today's rapidly evolving battlespace, it is crucial that as leaders, you grasp and fervently apply the full potential of our systems – and you learn that here at NPS." [Read more.](#)

Watch the NPS video congratulating the newest alumni [here.](#)



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## **The Naval Postgraduate School Foundation Celebrates 50 Years of Support of the Naval Postgraduate School**

The Naval Postgraduate School Foundation is proud to announce our celebration of 50 years of support to the Naval Postgraduate School!

“As we celebrate the rich history of NPS and our Foundation, the future remains our focus,” said NPSF CEO Rich Patterson. “Our partnership remains strong, as demonstrated by the establishment of the

Operational Readiness Center on the NPS campus. We will continue to support NPS as it attacks global challenges and develops military leaders, better preparing our Nation to face the uncertainties of tomorrow.”



Naval  
Postgraduate  
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**50 YEARS**

Read the full release, including our recent donation of \$1.2 Million in support of NPS' Operational Readiness Center. [Read more.](#)

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## NPS Foundation Yacht Club Members Compete in National Sailing Regatta

A team of four NPS students and one NPS faculty member, from the [NPS Foundation Yacht Club](#) (NPSFYC), traveled to Tred Avon Yacht Club in Oxford, Maryland to compete in the 2021 Shields Class National Championship Regatta, Sept. 22-25. The team made its debut under the reconstituted name, the NPS Foundation Yacht Club. The YC is recognized and sanctioned by NPS.



NPS student Lt. Mitch Kempisty is the team skipper. Kempisty's mission was all about establishing a presence for NPS and the Navy in the Shields Class Nationals, and to provide awareness to his colleagues at NPS that the NPS Foundation Yacht Club is back in business. Sailing is alive and flourishing on Monterey Bay, he says, and with the club, it's available to the NPS community for leisure or competition.

With pride, the team wore their Service uniforms during the post-race banquet, garnering positive attention with the NPS presence at the podium. [Read more.](#)

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## Alumni Spotlight



Rear Adm. **Mark Schafer**, Master of Business Administration '10, has taken command of Naval Forces Korea. Commander, Naval Forces Korea is the U.S. Navy's representative in the Republic of Korea and provides leadership and expertise in naval matters to the ROK to improve institutional and operational effectiveness between the two navies and to strengthen collective security efforts in the region.

As a naval special warfare officer, Schafer has led Navy and joint special operations teams globally. He served as the commanding officer of Naval Special Warfare Tactical Development and Evaluation Squadron 3, Naval Special Warfare's Basic Training Command and as the commodore of Naval Special Warfare Group 2. His most recent tour was as the director of operations for the Joint Special Operations Command headquartered in Fort Bragg, North Carolina.

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### **Alumni Spotlight: Honoring Hispanic American Heritage Month**



Retired Navy **Cmdr. Everett Alvarez Jr., MS** in Operations Research & Systems Analysis '76, was inducted into the Naval Postgraduate School's [\*\*Hall of Fame\*\*](#) in March 2015. As the first American aviator to be downed and detained during the Vietnam War, he spent 8+ years as a POW before returning to the U.S. in 1973 as part of the first group of American POWs repatriated under Operation Homecoming.

Alvarez was born in 1937 in Salinas, California, as the grandson of immigrants from Mexico. He retired from the U.S. Navy in 1980, and went on to an exceptional public service career as Deputy Director of the Peace Corps, Deputy Administrator of the Veteran's Administration, and Chairman of the CARES commission.

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Retired Navy **Adm. T. Joseph Lopez, BA** in International Relations '72 and MS in Management '73, was inducted into the Naval Postgraduate School's [\*\*Hall of Fame\*\*](#) in December 2010. Lopez is one of just two flag officers in the history of the U.S. Navy who achieved four-star rank after direct commission from enlisted service.

Lopez served as Commander-in-Chief of U.S. Naval Forces Europe and Commander-in-Chief Allied Forces, Southern Europe from 1996-98. From 1993-96, he commanded all U.S. and Allied Bosnia Peace Keeping Forces. During his naval career, he also served as Deputy Chief of Naval Operations for Resources, Warfare Requirements and Assessments, Commander of the U.S. Sixth Fleet, and Senior Military Assistant to the Secretary of Defense. After a 40 year distinguished career, Lopez retired in



January 1999. He served for 10 years on the NPS Board of Advisors.

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## NPS News

### **5G at Sea: AT&T and Naval Postgraduate School to Jointly Research 5G and Edge Computing Solutions**



**AT&T** and the Naval Postgraduate School (NPS) have entered into a Collaborative Research and Development Agreement (CRADA) to explore and develop 5G and edge computing-based maritime solutions aimed at benefitting national defense, homeland security, and industries such as shipping, oil and gas, recreational boating and more. The research will be conducted at NPS' Sea Land Air Military Research (SLAMR) lab, allowing for experimentation in multi-domain environments.

The NPS SLAMR program will explore the development of 5G and edge computing-powered sea applications that connect crewed and non-crewed vessels and sensors. Experiments will be conducted within the SLAMR's multi-domain laboratory. The program is also focused on providing all-domain maritime solutions for a broad array of defense, industry and

commercial applications. The SLAMR lab is expected to become 5G capable via a temporary, short-range 5G antenna installed in Oct. 2021 and oriented toward SLAMR's water tanks dedicated to education and research. [Read more.](#)

The NPS Foundation is pleased to note that our early funding of the SLAMR lab enabled it to get off the ground. SLAMR is now actively involved with many elements of autonomous research and its presence is growing at NPS and beyond.

The Sea Land Air Military Research lab (SLAMR) is our nation's only site that allows experimentation with robotics in multi-domain environments, specifically, sea, land, air, space and cyberspace. SLAMR is housed in what was once a county wastewater treatment plant in Monterey that has been **creatively refurbished** into a novel defense technology lab using the site's multiple 450,000-gallon water tanks as an affordable and sustainable location.

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### **NPS, TMGcore Research Partnership Focused on High-Density Computing**



NPS Foundation Vice President retired Marine Corps Col. Todd Lyons, right, and TMGcore Director of Hardware Innovation Andrew Downs, left, check out the company's OTTO Edgebox following its installation in the NPS Data Center. The platform was installed in support of a research partnership to explore Navy and defense applications.

From experiments at the [Joint Interagency Field Experimentation \(JIFX\) in May 2021](#) to the delivery of the EdgeBox to NPS Sept. 27, the NPS Foundation is a proud supporter of the collaboration between the Naval Postgraduate School and [TMGcore](#) in adopting two-phase liquid immersion cooling to deliver more high-performance computing capacity in a smaller form factor.

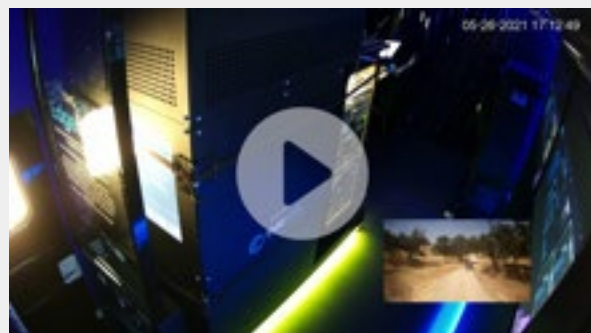
The Naval Postgraduate School and TMGcore have recently entered into a Limited Purpose Cooperative Research and Development Agreement (LP-CRADA) that will enable NPS student and faculty researchers to test and evaluate TMGcore's high-density, two-phase liquid immersion cooling data center, the Edgebox, and identify how it can enable novel research requiring high-performance computing solutions. Leveraging the experience of NPS students and faculty is key to the identification of applicable use cases that advance the mission objectives of military operators.

For the students at NPS, the LP-CRADA offers them a chance to experience this new innovative technology and learn about it from a research and development stage to bring that knowledge to the fleet. Deploying the Edgebox at NPS taps into the innovative minds that know how to use the technology for the military's specific purposes. TMGcore will also see how their Edgebox works when put through scenarios and tests from outside sources, helping them to adapt the Edgebox for use in other fields.

The NPS Foundation facilitates conversations that make a difference by bridging the divide between industry, academia, and DOD entities to accelerate the responsiveness of NPS to the challenges arising from great power competition and emerging technologies.

Read more from NPS: [New LP-CRADA Between NPS, TMGcore Focused on High-Density Computing](#)

**See the TMGcore's Edgebox in action during a full mobility test at NPS' Joint Interagency Field Experimentation (JIFX).**







**Virtual Secretary of the Navy Guest Lecture  
with retired Adm. James Stavridis and Dr. John Arquilla**

**12 October 2021  
3:00-4:30 p.m. PDT**

Join renowned thought-leaders retired Adm. James Stavridis and NPS Distinguished Professor Emeritus Dr. John Arquilla for a compelling discussion and student Q&A on the topic, “Weapons of Mass Disruption: A Conversation on the Future Force, Geopolitics, and Leadership.”

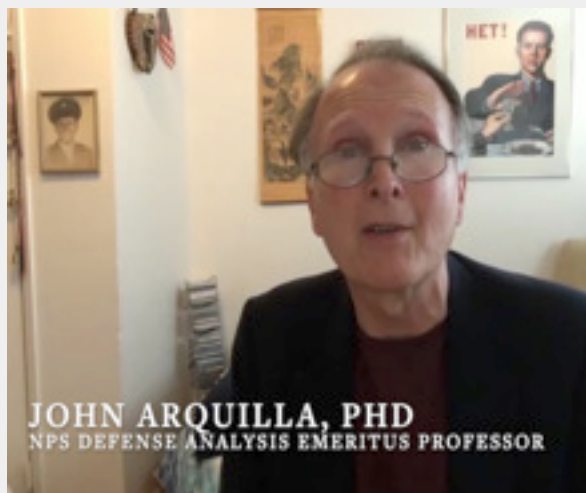
Building on themes resonant in each of their latest books -- Stavridis’ “2034: A Novel of the Next World War” and Arquilla’s “Bitskrieg: The New Challenge of Cyberwarfare” -- this virtual SGL will offer keen insight into the powerful and permanent impact of modern technology on every aspect of national security, economic security and warfare. **Watch live at [nps.edu/watchlive](https://nps.edu/watchlive).**

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**In Case You Missed It...**

**Interview with Dr. John Arquilla**

**Applied Design for Innovation**



The Naval Postgraduate School Foundation recently interviewed NPS Distinguished Professor, Dr. John Arquilla. Drawing off Arquilla's wealth of knowledge and experience, topics include the history of the Defense Analysis Department at NPS, the evolution of special operations, the future of Cyberwarfare and the comparative advantage of NPS. [Read or watch the interview here.](#)



In September of 2018, an experimental unit from within United States Special Operations Command identified a need for an academic pipeline that would prepare warfighters tasked with leading innovation initiatives across the military services. Thus began the development of the Applied Design for Innovation curriculum at the Naval Postgraduate School's Defense Analysis Department. [Read more.](#)

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