

YEAR IN REVIEW 2021

JAN

The university's **RAILGUN LABORATORY** — the largest of any academic institution — specializing in innovative, applied research in hypervelocity projectile (HVP) technology, advances its first cohort of graduates.



◀ **RETIRED ADM. CECIL HANEY** presents a Secretary of the Navy Guest Lecture and introduces for induction the 24th nominee selected to join the NPS Hall of Fame, retired Vice Adm. Edward Moore.

NPS launches the Naval Warfare Studies Institute (NWSI) to connect the Fleet to NPS research, talent, resources and expertise to resolve complex warfighting issues and operational challenges.



FEB



◀ **XEROX AND NPS** announce a strategic collaboration focused on advancing additive manufacturing research, specifically liquid metal 3D printing, used to transform the way the military supplies its forward-deployed forces.

NPS launches its first graduate certificate program in **GREAT POWER COMPETITION** for 31 Navy and USMC students.

MONTEREY PHOENIX, a NPS-developed behavior analysis tool for calculating potential system errors prior to writing code, becomes free and available to the public.



◀ **THE DEPARTMENT OF DEFENSE** selects NPS to advance research in environmental resilience and surprise to meet future climate challenges to operations at military installations.

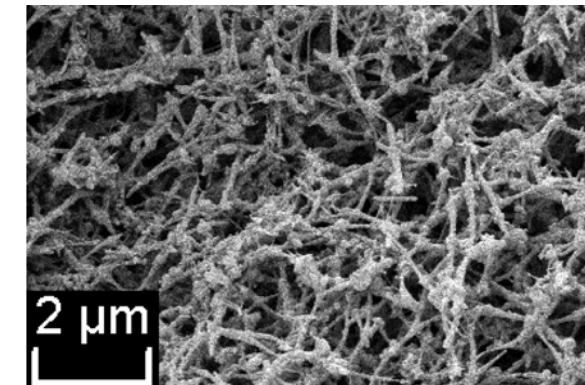


MAR

LAWRENCE LIVERMORE NATIONAL LABORATORY extends its long history with NPS by agreeing to share resources and provide education focused on solving future challenges to national defense.



◀ At the **NPS FIELD LAB AT CAMP ROBERTS**, 325 people from 208 unique government agencies, military commands, and private companies showcase, test and/or evaluate their latest technologies.



◀ NPS enters into a **COOPERATIVE RESEARCH AND DEVELOPMENT AGREEMENT (CRADA)**, with BNNano, an advanced manufacturing company known for producing cutting-edge Boron Nitride Nanotubes, to explore potential defense applications for nanomaterials.

Enlisted Marine **STAFF SGT. WARREN DIFFEY** earns top Marine Corps student award.



APR



◀ To resolve vital climate and security issues, NPS launches the interdisciplinary **CLIMATE AND SECURITY NETWORK**.

NPS, NASA team up on **"ASTROBATICS"** project advancing spacecraft robotics.

NPS RECEIVES the maximum 10-year re-accreditation from the Western Association of Schools and Colleges Senior College and University Commission (WSCUC).



◀ The NPS community welcomes **DR. SCOTT GARTNER** as the university's 16th Provost and Academic Dean.

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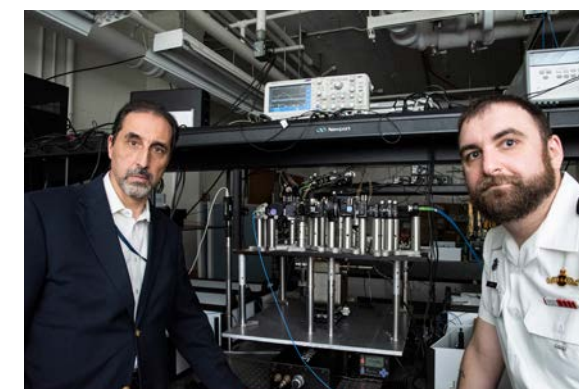
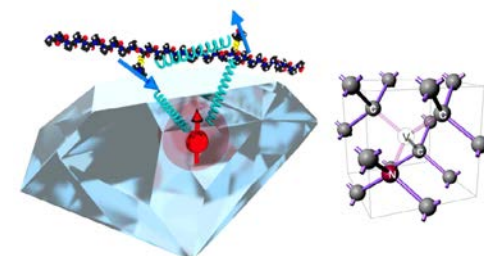
MAY

NASA teams with researchers at NPS and the International Space Station to conduct the first of five experiments of the **"ASTROBATICS" PROJECT**, designed to develop and test dynamic models, guidance and control techniques for the maneuvering of autonomous robotic spacecraft.



◀ The School hosts a virtual event, **"ASK AN ASTRONAUT,"** a Q&A session featuring three NPS astronauts, attended by military children and students from across the country.

NPS PHYSICS PROFESSORS advance quantum sensing for the Navy which will detect and track platform motion in the absence of GPS capabilities in water or space.



JUN



◀ NPS offers its first **"CYBERSPACE AND MILITARY OPERATIONS"** course focusing on the interconnection between cyberspace and the Great Power Competition.

NPS Oceanography **PROFESSOR MARA ORESCANIN WINS NATIONAL SCIENCE FOUNDATION CAREER PROGRAM GRANT**



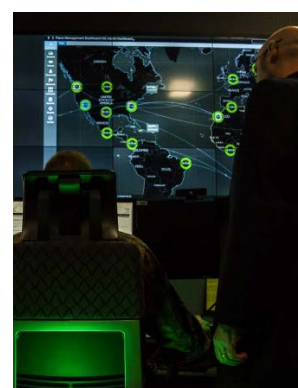
RESEARCHERS DEVELOP a set of tools to support the acquisition of organically-developed AI systems that can determine the potential worth of technology emerging from start-up companies around the world.



◀ Keynote graduation speaker Deputy CNO for Warfighting Development **VICE ADM. JEFF HUGHES** congratulates 364 graduates, including 23 international students from 15 countries, stressing how the nation's warfighting advantage in this era will hinge on intellectual capital and technological innovation.

JUL

The university begins a new certificate program called **"IMPLEMENTING TECHNOLOGICAL CHANGE"** to help support policy development and organizational change.



◀ The new **CENTER ON COMBATING HYBRID THREATS** opens to help detect, disrupt and deter hybrid threats by state and non-state actors.



◀ Management professors develop the **DYNAMIC RETENTION MODEL**, which uses predictive analytics to assist in Navy recruitment, promotion and retention and in understanding the impact of pandemics on the workforce.

NPS Cybersecurity Expert Explores 'Weapons of Mass Disruption' in new **BITSKRIEG** book, by distinguished professor emeritus Dr. John Arquilla.



AUG



◀ A new curriculum on cyberwarfare is launched with NAVSEA sponsorship to educate the **CYBER WARFARE ENGINEER COMMUNITY** and future cyber warriors in the Navy and DOD.

A TRIO OF NAVAL AVIATORS attending NPS begin a trend—taking command of a squadron upon graduation.

NPS hosts the **70TH ANNUAL ORDNANCE AND BALLISTICS WORKING GROUP** with the National Armaments Consortium to discuss classified research on explosives, warheads and terminal ballistics.

Navy **INSPECTOR GENERAL** assessment successfully completed, NPS self-evaluation credited as a **BEST PRACTICE**



◀ The campus welcomes the Navy Message to the Fleet from NPS alumnus (Space Systems Engineering) and 78th Secretary of the Navy, the Honorable **CARLOS DEL TORO**.

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SEP

In partnership with AT&T, NPS converts a local wastewater treatment plant into the **SEA LAND AIR MILITARY RESEARCH LAB (SLAMR)**, for research in robotics, autonomous systems, cybersecurity and maritime related 5G telecommunications.



◀ Commencement speaker and NPS alumnus, Vice Adm. **ROY KITCHENER**, congratulates the 294 graduates, including 23 international students from 5 countries, conveying how the nation's warfighting ability is directly correlated to a NPS education.

Naval Postgraduate School teams with experts from the Joint Directed Energy Transition Office to host the **LASER LETHALITY TECHNICAL AREA WORKING GROUP** to collaborate and review DOD laser lethality programs and their technical efforts and results.

NPS honors victims, first responders, service members at the 20th anniversary **9/11 REMEMBRANCE CEREMONY**, in front of the university's Herrmann Hall.



OCT



◀ The National Security Agency's Center for Academic Excellence in Cyber Operations requests support from NPS to sponsor a **CYBER SUMMER INTERNSHIP PROGRAM** as part of the National Initiative for Cybersecurity Education.

TMGORE joins NPS in high-density computing experiments to test and evaluate Edgebox technology for advancing the mission objectives of military operators.

Retired Navy Adm. **JAMES STAVRIDIS** speaks to the campus about technological warfare, the changing geopolitical environment, and how junior officers can develop into brilliant leaders.



◀ NPS alumnus Adm. **SAMUEL PAPARO** visits NPS to discuss critical operational challenges facing the fleet in the Pacific, and how NPS and Silicon Valley might partner on solutions.

"NPS is the flagship technical graduate school for the Navy and DOD."

Commander, U.S. Pacific Fleet, Adm. Samuel Paparo

NOV

The first cohort of NPS graduates in the **WARFARE TACTICS INSTRUCTORS PROGRAM** return to the Fleet to serve in critical operational billets in anti-submarine and surface, amphibious, mine, or integrated air and missile defense warfare.



◀ NPS Applied Mathematics Professor Dr. Pantelimon Stanica receives the **INTERNATIONAL GEORGE BOOLE PRIZE** for his advanced research in cryptographic Boolean functions.



◀ A chief petty officer (CPO) pinning ceremony for **THREE NEW NPS CHIEFS** was held inside King Auditorium.

NPS Marine Corps Student competes in **NATIONAL JUDO COMPETITION**.



DEC



◀ NPS celebrates with its associate professor, Sam Buttrey, winner of the inaugural **"JEOPARDY" PROFESSORS TOURNAMENT**.

Cambridge University Press publishes **THE U.S. DEFENSE ECONOMY** co-authored by Dr. Jomana Amara, which examines defense industry consolidation, re-sourcing gaps and developments likely to shape the defense economy's future.



A NEW NODE IS CONNECTED between NPS and the Joint Information Operations Range, giving access to a globally-distributed, closed-loop, live-fire cyber range complex that enables classified training, testing and experimentation.

NPS leads graduate schools in **NASA ASTRONAUT SELECTIONS**; Luke Delany USMC (retired) and LCDR Jessica Wittner are latest alumni chosen.



◀ NPS Distinguished Alumnus retired U.S. Army Lt. Gen. **ERIC WENDT**, keynote speaker, encourages the class of 331 graduates to use their knowledge, remember their classmates, and enthusiastically recruit others to attend NPS.

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