



2013 YEAR IN REVIEW

January

NPS Assistant Professor Victoria Clement is granted unprecedented access to the Turkmen National Archives in support of her research into the intersection of social and political power in modern Central Asia. A historian with a background in Near East languages and civilization, she is one of only two non-Turkmen scholars ever allowed access to the archives.



NPS' Modeling, Virtual Environments and Simulation Institute continues its inaugural cohort of students in the graduate certificate in health care simulation. Developed in partnership with the Uniformed Services University of the Health Sciences, the certificate program is delivered asynchronously to students across the country already serving as managers of programs using modeling and simulation to train health care professionals.

NPS' Dudley Knox Library Outreach and Collection Development Manager Greta E. Marlatt receives the highly coveted "I Love My Librarian Award" granted by the Carnegie Corporation of New York and "The New York Times."

February

An interdisciplinary team of NPS faculty stand up the Littoral Operations Center, designed to advance and promote the study of U.S. Navy and allied partner nation policy and strategy for warfare in the littorals. The center will also focus on the strategic integration of new assets into existing warfare strategy.

Chief of Naval Operations Adm. Jonathan W. Greenert holds an all hands call for students, faculty and staff on the NPS campus, Feb. 1. Greenert detailed the strategic shift toward the Pacific, and took questions from students addressing a range of issues critical to the NPS community — from budget and resources to the role of training and education for the fleet.



National Security Affairs Assistant Professor Dr. Sopal Ear releases his second book in three months. Titled "The Hungry Dragon: How China's Resource Quest Is Reshaping the World," Ear delves into China's race for to command natural resources and political influence that comes with it.

March



A joint NPS thesis by two Army officers examines possible security and structural upgrades to minimize loss of life to active shooters in high-occupancy facilities. Titled Victim Initiated Mitigation, the thesis stressed the most critical component in limiting loss of life in active shooter incidents — time.

Dr. Allen Fuhs, Distinguished Professor Emeritus and a founder of NPS' Space Systems Academic Group, is elected an Honorary Fellow of the American Institute of Aeronautics and Astronautics. Fuhs supervised more than 100 master and doctoral theses during his career at NPS.

The joint NPS, Air Force Institute of Technology master's degree in cost estimating and analysis (MCEA) graduates its first cohort of 24 students, March 29. Sponsored by NAVSEA, the MCEA was implemented in an effort to train government employees in cost estimation to meet the demands of the Weapons Systems Acquisition Reform Act of 2009.

April

NPS holds its third annual Robots in the Roses Research Fair, April 11, showcasing research across campus associated with robotics and unmanned systems. Researchers displayed robotics platforms large and small — everything from bird-like bots that seek out and ride upon thermals, to small-unmanned watercraft capable of sensing threats in harbors.

Vice Chief of Naval Operations Adm. Mark Ferguson addressed NPS students, faculty and staff during an all-hands call on the university campus, April 25. During the visit, the computer science alumnus took part in the semi-annual meeting of the Board of Advisors subcommittee, and shared his vision for the Navy with members of the NPS community.

The NPS Department of Operations Research (OR) is awarded the 2013 UPS George D. Smith prize by the Institute for Operations Research and the Management Sciences. The award is presented to an institution that demonstrates the "effective and innovative preparation of students" in the area of OR, management science or analytics.



May

Physicists at NPS collaborate with researchers at the University of Texas to develop the power supply that will help make ship-born laser weapons a reality on U.S. naval vessels.

The first cohort of senior enlisted students in the NPS Master of Applied Cyber Operations degree program graduate.



Defense Analysis faculty provide local Congressman Sam Farr and Assistant Secretary of State for Conflict and Stabilization Operations, Ambassador Rick Barton with an introduction to NPS' volunteer community advisory initiative designed to apply counterinsurgency strategy to combat gang activity in nearby Salinas, Calif. Barton leads a relatively new effort at the U.S. State Department designed to drive efforts in conflict prevention and stabilizing crises in key developing nations. He was especially interested in hearing how innovative initiatives are applied through locally-driven solutions.

June

Dr. Douglas A. Hensler officially begins his tenure as the 14th Provost of NPS, June 3, following five years as Dean of the W. Frank Barton School of Business at Wichita State University, and a lengthy career in both academia and industry.



In one of the most memorable moments of recent graduation ceremonies, the daughters of Marine Corps Maj. Francisco Rodriguez were presented with the degree earned by their father, who completed his graduation requirements prior to his passing after a long battle with cancer in early 2013. The degree was presented by commencement speaker, Army Gen. Keith B. Alexander, then Commander of U.S. Cyber Command — Alexander was also officially inducted into NPS' Hall of Fame during the ceremony.

Lt. Cmdr. Victor Glover, an F/A-18 combat pilot, is selected from more than 6,100 applicants to join NASA's eight astronaut candidates who will begin training at Johnson Space Center in Aug. for potential space flight. If selected to become an astronaut, Glover, who graduated from NPS in 2009 through the Master's of Systems Engineering Management — Product Development 21st Century program, will become the university's 41st space-traveling alumnus.



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July

Then Secretary of Homeland Security, the Honorable Janet Napolitano, welcomes a handful of international colleagues to NPS for a Five Country Ministerial, July 22. The forum focused on how close cooperation between the five allied nations can be applied to countering extremist terrorism, combating cyber-crime, and improving the exchange of criminal history information between the five nations.

Two Naval Academy Midshipmen wrapping-up summer internships at NPS, Daniel Fallon and Jonathan Driesslein, evaluate the utilization of QR, or quick response, codes in a chat environment. "One of the many ways QR codes can help in emission control is to relay the code through light as we did with ship-to-ship signaling. However, now the QR code represents hundreds of characters and with the use of stronger LED lights, and flashing much more rapidly, messages can be relayed without radio emissions," NPS Associate Professor Don Brutzman explained.



Naval Support Activity Monterey's Installation Environmental Program is awarded two prestigious Chief of Naval Operations' environmental awards, July 17, for excellence in cultural resource management and installation sustainability.

August

NPS joins regional leaders, educators and students at Hartnell College's Internship Symposium, designed to partner local college students with leading NPS researchers. In the summer of 2013, NPS hosted 93 interns throughout various STEM-related disciplines, hoping to recruit the next generation of STEM professionals.

The latest cohort of the Executive Master of Business Administration distance learning program attends campus orientation week, Aug. 19-23. Although the EMBA program is delivered via video teleconference, each cohort spends a week on campus to attend course work on leadership and teamwork.



The newest group of Chief of Naval Operations Strategic Studies Group (CNO SSG) Director Fellows are announced by CNO SSG Director retired Adm. James Hogg. The mission of the CNO SSG is to generate revolutionary naval warfare concepts at the direction of the Chief of Naval Operations himself. The group focuses its efforts on high-potential tactics and innovative procedures that have not yet been exploited by the Navy.

September



In spite of the government shutdown in early September 2013, NPS welcomes its new President, retired Vice Adm. Ronald A. Route and thanks Interim President Rear Adm. Jan Tighe for her service to the university as she returns to Washington.

To help combat the escalating rate of suicide within the active-duty military community, NPS student Lt. Darryl Diptee creates the Emotional Vitality Assistant, a smartphone application that provides service members with immediate access to mental health resources.

Defense Analysis Assistant Professor Bradley J. Strawser challenges his students to wrestle with the complex ethical questions surrounding lethal autonomous systems by hosting a debate between University of Denver Visiting Associate Professor Heather M. Roff and freelance journalist Joshua Foust, Sept. 23. Debate participants sought to answer the question, "Does the future of unmanned and autonomous weapons pose greater potential ethical dangers or potential ethical rewards?"

October

NPS mourns the passing of alumnus retired Navy Cmdr. M. Scott Carpenter, the university's first graduate selected to be a NASA astronaut. Carpenter was part of the original Mercury 7, and was the second American to orbit the earth on board the Aurora 7 spacecraft.

Four faculty in the NPS Department of Operations Research, Drs. Tom Lucas, Paul Sanchez, Susan Sanchez and Chris Nannini, are honored with the Institute for Operations Research and the Management Sciences Koopman Prize for outstanding publication in military operations research. The professors were recognized for their contributions to a book on large-scale, experimental design and analysis.

NPS researchers and students collaborate with NASA scientists at Florida International University's Aquarius Habitat on an innovative approach to transforming the possibilities of human-robot collaboration by using autonomous robots that can assist humans in mapping, navigating and exploring undersea space domains.



November

NPS researchers celebrate multiple advancements in the operational utility of two concept unmanned systems. The TaLEUAS, or Tactical Long Endurance Unmanned Air System is a tethered, hex-rotor aircraft designed to work with very little human command and control. The Air Mobile Buoy concept could fill operational gaps pertaining to sea-based, non-persistent surveillance and could also provide a much-needed, all-weather UAV capability.



Senior service leaders dedicated time to address the NPS student body of mid-level officers on critical manpower and personnel issues in the month of November. In separate visits to campus, Vice Adm. William F. Moran, Chief of Naval Personnel and U.S. Army Deputy Chief of Staff, G-1, Lt. Gen. Howard B. Bromberg addresses students on these critical Pentagon issues, while also fielding questions from the audience.

NPS Center for Joint Services Electronic Warfare completes the 16th year of its annual Technology for Information Operations (TIO) short course, Nov. 14. The program is especially popular with Swedish officers, given the TIO short course's inclusion in Swedish National Defense College curricula.

December

Rocky Mountain Institute Cofounder and Chief Scientist Dr. Amory B. Lovins returns to NPS, Dec. 6, to present at one of the university's frequent Defense Energy Seminar guest lectures. Lovins discussed his book, "Reinventing Fire," which encourages a transition away from fossil fuels toward renewable energy by 2050.

Retired Adm. Michael G. Mullen, 17th Chairman of the Joint Chiefs of Staff and 28th Chief of Naval Operations, addresses NPS graduates, families and friends at the Fall Quarter Graduation Ceremony held in King Auditorium, Dec. 20. Mullen, himself an NPS operations research alumnus, congratulated the 373 students earning 377 degrees this quarter.



Mechanical engineering student Lt. Cmdr. Jamie Cook is honored with multiple awards during the NPS Center for Materials Research student research showcase, Dec. 11. Cook's research into advanced carbon nanomaterials was met with high praise on campus, earning a CMR Outstanding Research Award as well as the Naval Sea Systems Command's Excellence in Naval/Mechanical Engineering award.