Campus Icon Wayne Hughes Keynotes Fall Commencement Ceremonies

By MC1 Rob Rubio

“You should be justly proud of what you have accomplished here. We will be proud to call you NPS alumni, and look forward to hearing great things from you in the future.”

With these words by university President Dan Oliver, commencement ceremonies were underway for the Fall quarter’s round of graduates. In introducing this quarter’s guest speaker, retired Navy Captain and NPS Professor of Practice Wayne Hughes, Oliver remarked, “He is a universally esteemed colleague among his peers, a revered mentor to his students … One of the great pleasures of my tenure here is that it has overlapped some of his.”

Hughes highlighted his keynote address by reminding these new graduates that, as they return to their services, they are following in the wake of generations of NPS alumni who have impacted the world around them.

“You should be justly proud of what you have accomplished here. We will be proud to call you NPS alumni, and look forward to hearing great things from you in the future.” – NPS President Dan Oliver

“Some of you have suspected, correctly, that we professors work you like dogs — but that is only because you are dogs of a special breed,” he noted in jest. He continued by recalling memories of visiting Anchorage, Alaska, for the start of the famous Iditarod dog sled race. “These dogs didn’t have any sense of winning, but what they wanted to do was pull with their buddies. This was their joy and cast in life.”

He noted that in order to be effective officers, the graduates must be able to adapt and do it fast. He added, “Expand your horizons, because this is the essence of leadership.”

A total of 365 students earning 369 degrees graduated this quarter, with 316 students crossing the stage in King Auditorium to receive their diplomas. A total of three Ph.D.s were awarded along with two engineer degrees. Two individuals earned dual degrees and one earned a triple degree. This quarter’s class included 62 international graduates representing 21 different countries.

p3  University Inducts Two New Members into Prestigious Hall of Fame
p4  NPS Faculty Develop Research Tools for Antarctic Expedition
p6  Student Analyzes Cost Savings of Rechargeable Batteries
A Message From …
Daniel T. Oliver, President, Naval Postgraduate School

With every passing of the calendar year, the turn to January brings visions of exciting opportunities and new possibilities to the NPS community, while also compelling us to reflect on recent months past. As I look back at the past year, I can note with great confidence that 2011 was an opportunistic, impactful year for our university.

We took the opportunity to demonstrate the successful execution of our mission during visits with senior leaders, such as Secretary of Defense Leon Panetta and Chief of Staff of the Army Gen. Ray Odierno. We were charged by the Navy’s most senior leaders, including Secretary of the Navy Ray Mabus and former Chief of Naval Operations Adm. Gary Roughead, to develop educational programs of critical national security relevance. And with each of these opportunities, we are able to re-emphasize the transformational power of an NPS education on tomorrow’s military and defense establishment leaders, our students.

As we welcome new opportunities, we must also remain steadfast in our core values and commitment to delivering the best possible education to our students. Among these unchanging values includes our obligation to the highest ethical standards, and to the respectful civility of academic discourse. Our military and civilian students represent the future of the defense community, and the direction of our nation’s security efforts. The power of education lies not only in the tools it provides, but in the characteristics it instills as well.

The future always brings with it uncertainty and change, and NPS has been plenty of both in our near 102 years, and will certainly continue to see it in the years that come. But we must see this unknown as an opportunity to continue to prove the value of our programs, and the caliber of our people. With each completed thesis, and each published article, our students and faculty are sharing knowledge that has tremendous potential for the Navy and the entire defense community. And it is knowledge that lies at the core of national security’s most critical needs. From cybersecurity to cost analysis, energy independence to tomorrow’s technology, NPS faculty and students have and will continue to stand on the precipice of emerging defense issues and needs.

“Our military and civilian students represent the future of the defense community, and the direction of our nation’s security efforts. The power of education lies not only in the tools it provides, but in the characteristics it instills as well.”

Our international partnerships have also been a significant part of the school’s success, and will continue to be a key component to our future. The diligent efforts to cultivate blossoming relationships in 2011 saw several new partnerships come to reality — including work with India’s peer defense institutions, and the Jordanian Armed Forces, among many others — and we are only beginning to capitalize on these new endeavors. I am also confident that the coming year will bring more opportunities to engage national leaders from around the world. Global security is a critical component to our mission, and as our faculty and students share their experiences and expertise, lasting relationships are formed.

This coming year, we will also continue our strategic planning efforts, developing a new five-year plan to define the future goals of the university. The strategic planning process is rigorous, but has been invaluable in bringing together the schools and departments in guiding the future of our institution.

All new years bring with them elements of uncertainty and unknown. But as long as NPS remains unwavering in its commitment to providing students with the best possible defense-based education experience, we will continue to achieve our mission. As we envision our opportunities for the coming year, I look forward to sharing with you in all of the successes, challenges and diligence that lie before us.

University Inducts Two New Members into Prestigious Hall of Fame

The Naval Postgraduate School inducted two new members, retired Adm. Stan Arthur and Dr. J. Phillip (Jack) London, to its Hall of Fame during a ceremony, Dec. 2.

Arthur served as Commander, U.S. Seventh Fleet and Commander, U.S. Naval Forces Central Command for Operations Desert Shield/Desert Storm, and as Vice Chief of Naval Operations. London served as a naval aviator during the Vietnam War and Aide and Administrative Assistant to the Vice Chief of the Naval Material Command during his active duty service. London currently serves as Executive Chairman for CACI, a global professional and information technology services provider to the defense, homeland security and intelligence sectors.

Arthur also praised Arthur’s work after retiring from the military, joining Lockheed Martin Missiles and Fire Control as President and General Manager, and later executive director to the Naval Postgraduate School with his participation on the NPS Board of Advisors.

It’s truly an honor to be among you all today. Never in my wildest imagination would I think that I would be here to accept this special honor,” said Arthur. “This school is a very special place. It has provided quality education to so many over so many years… bringing in innovation and informed decision making to this country’s military.”

Oliver then presented the 17th new member of the Hall of Fame, London. London pointed out London’s contributions to some of the nation’s most creative and historic endeavors such as his participation as a member of the recovery team for Col. John Glenn’s space flight aboard Freedom 7.

He emphasized London’s continuous service throughout his career in the Navy and as a civilian, being actively involved with multiple organizations of social and national value. London took the podium and explained the significance that NPS has had in his life.

“The Hall of Fame was established 10 years ago to recognize members of the NPS community who have committed their careers and lives to public service,” said NPS President Dan Oliver during his opening speech. “Today, we welcome Dr. Jack London and Admiral Stan Arthur among them.”

Faculty, staff, students, friends and family, as well as other Hall of Fame members, were present at the ceremony to welcome the new members.

Oliver presented Arthur as the 16th member of the Hall of Fame prasing his more than 38-year career serving actively in the U.S. Navy. He said that Arthur “exemplified the leadership qualities that are most critical for members of the armed forces.”

On Dec. 1, the Strategic Planning Council meeting brought together a broad spectrum of NPS administration and faculty to continue discussion on the university’s new strategic plan, outlining NPS’ accreditation and objectives for national security strategies, and a look at the educational and research objectives for the coming year.

NPS President Dan Oliver and Executive Vice President and Provost Dr. Leonard Ferrari attended the annual Faculty Recognition Evening, Dec. 4, at the NPS Quarterdeck. The traditional event honors the university’s award-winning faculty for 2011, in addition to recognizing the latest group of senior faculty honored with the Distinguished Professor title.

On Dec. 8, several campus leaders and faculty attended an NPS Cyber Research meeting. The gathering is part of an ongoing effort to strategize and coordinate the expansion of U.S.-sponsored cyber research at the university. The team also discussed the development of a plan to engage and partner with academia and industry to maximize NPS potential cyber capabilities.

On Dec. 9, Oliver and Ferrari were joined by the Office of Information Resources and Chief Information Officer Dr. Christine Haska for the Team Monterey meeting at Defense Personnel Security Research Center in Monterey.

And with the holiday season upon us last month, Oliver and Ferrari attended a number of seasonal celebrations, including the NPS Foundation’s annual Grand Winter Ball on Dec. 2, and the university’s Celebration of the Seasons, held Dec. 11.

“Update NPS” is a monthly publication for students, faculty and staff of the Naval Postgraduate School produced by the Office of Institutional Advancement. For additional copies, comments, or to suggest story ideas, contact the editorial staff at update@nps.edu.
Faculty Celebrate Peer Achievements for 2011

NPS Executive Vice President and Provost Dr. Leonard Ferrari and President Dan Oliver gathered with a large group of faculty from across campus to celebrate the achievements of NPS faculty body during the Annual Faculty Recognition evening, Dec. 7.

“Our faculty are second to none in their dedication to our students. Because, after all, we are first and foremost teachers, committed to developing our students’ abilities to think, analyze and discover. And we celebrate when our students go on to successful careers — in their services and beyond,” said Ferrari.

The ceremony honored several faculty members, including Meteorology Associate Professor Tom Murphy, mathematics professor Richard W. Hammang, and Policy and Public Affairs Professor Robert J. H. Miller.

NPS Faculty Develop Research Tools for Antarctic Expedition

By Amanda D. Stein

A team of NPS oceanographers is braving six weeks of frigid temperatures and gusty winds in Antarctica for the research opportunity of a lifetime.

NPS Research Professor of Oceanography Tim Stanton, Research Assistant Professor of Oceanography Bill Shaw, and Oceanographer Jim Stockel are on a two-month-long expedition to the remote Pine Island Glacier (PIG) ice sheet in Antarctica, where rapidly-moving ice sheets have researchers anxious to explore warm water currents beneath ice shelves that extend out into the ocean from the continental edge.

The 10-man research team, comprised of researchers from three other universities and the National Aeronautics and Space Administration (NASA), has several important pieces of equipment in tow, including three specially-designed research tools — an Ocean Flux Profiler, a Fixed-Depth Ocean Flux package, and a surface infrastructure system — developed and built by Stanton and his team at NPS.

In the ocean cavity below the glacier, the research group is deploying the instruments to measure the ocean circulation that is bringing slightly warm water across the continental shelf to the base of the ice shelf. The interaction of the ocean with the ice shelf is melting the glacier, from below, at a rapid rate. The PIG ice shelf is an area of particular concern, selected because it is among the most rapidly melting glacier, from below, at a rapid rate. The PIG ice shelf is an area of particular concern, selected because it is among the most rapidly melting glaciers in Antarctica, where rapidly-moving ice sheets have researchers anxious to explore warm water currents beneath ice shelves that extend out into the ocean from the continental edge.

“The Pine Island Glacier ice sheet is fed by a massive glacial system up on the continent. It flows down and extends out in the ocean by about 50 km,” explained Stanton. “The glaciologists who have studied these systems for the last 25 years have noticed that the ice is moving two to four times more rapidly than it was in the past.”

The Ocean Flux Profiler and Fixed-Depth Ocean Flux Package will transmit data back to NPS, where it can be analyzed and determine whether the currents and water temperatures are indeed increasing the melting rate of the ice, and at what rate.

“If a system like this starts to collapse, we could see massive sea level rise on decadal or century time-scales,” said Stanton. “So the question becomes at what time-scale might this happen and what are the physical processes that lead to that.”

Stanton noted that there will certainly be interest from the Navy in the Antarctic findings, as the maritime domain is directly impacted by potential melting of the planet’s ice sheets and resulting sea-level rise. This sea level rise has wide impacts on ports, coastal cities and low lying farming land around the world.

“The Office of Naval Research has reinstituted its high-latitude research program because the massive changes in the amount of summer time ice cover in the western Arctic has changed the whole accessibility of the central Arctic, for shipping, geopolitics and exploration of resources,” explained Stanton. “So the Navy recognizes that something they have to be aware of and defend.”

While NPS is widely known as the premier university for mid-level officers to receive a defense-related degree, roughly 15 times a year, the campus welcomes senior Navy Flag Officers as they take part in the Transition Support (TS) Program, hosted by NPS Center for Executive Education (CEE).

The TS program, part of the overall Navy Executive Development Program, utilizes NPS experienced faculty to help flag officer leaders transition into positions of increased responsibility. The admirals visit NPS for two or three days between assignments for tailored, one-on-one discussions with subject matter experts to help them prepare for the challenges that await them in their new positions.

“This is an exceptional opportunity for the Naval Postgraduate School — to be involved in the development and education of the senior leadership of the Navy,” said CEE Director John Frankland.

National Security Affairs

Assistant Professor Jon Clay Moltz published his most recent book, titled “Asia’s Space Race: National Motivations, Regional Rivalries and International Risks,” with Columbia University Press in November. His book explores the competitive nature of Asia’s space programs and China’s growing interest in militarized space activities.


NPS Faculty Develop Research Tools for Antarctic Expedition

By Amanda D. Stein

NPS Research Professor of Oceanography Tim Stanton, Research Assistant Professor of Oceanography Bill Shaw, and Oceanographer Jim Stockel are on a two-month-long expedition to the remote Pine Island Glacier (PIG) ice sheet in Antarctica, where rapidly-moving ice sheets have researchers anxious to explore warm water currents beneath ice shelves that extend out into the ocean from the continental edge.

The 10-man research team, comprised of researchers from three other universities and the National Aeronautics and Space Administration (NASA), has several important pieces of equipment in tow, including three specially-designed research tools — an Ocean Flux Profiler, a Fixed-Depth Ocean Flux package, and a surface infrastructure system — developed and built by Stanton and his team at NPS.

In the ocean cavity below the glacier, the research group is deploying the instruments to measure the ocean circulation that is bringing slightly warm water across the continental shelf to the base of the ice shelf. The interaction of the ocean with the ice shelf is melting the glacier, from below, at a rapid rate. The PIG ice shelf is an area of particular concern, selected because it is among the most rapidly melting glaciers in Antarctica, where rapidly-moving ice sheets have researchers anxious to explore warm water currents beneath ice shelves that extend out into the ocean from the continental edge.

“The Pine Island Glacier ice sheet is fed by a massive glacial system up on the continent. It flows down and extends out in the ocean by about 50 km,” explained Stanton. “The glaciologists who have studied these systems for the last 25 years have noticed that the ice is moving two to four times more rapidly than it was in the past.”

The Ocean Flux Profiler and Fixed-Depth Ocean Flux Package will transmit data back to NPS, where it can be analyzed and determine whether the currents and water temperatures are indeed increasing the melting rate of the ice, and at what rate.

“If a system like this starts to collapse, we could see massive sea level rise on decadal or century time-scales,” said Stanton. “So the question becomes at what time-scale might this happen and what are the physical processes that lead to that.”

Stanton noted that there will certainly be interest from the Navy in the Antarctic findings, as the maritime domain is directly impacted by potential melting of the planet’s ice sheets and resulting sea-level rise. This sea level rise has wide impacts on ports, coastal cities and low lying farming land around the world.

“The Office of Naval Research has reinstituted its high-latitude research program because the massive changes in the amount of summer time ice cover in the western Arctic has changed the whole accessibility of the central Arctic, for shipping, geopolitics and exploration of resources,” explained Stanton. “So the Navy recognizes that something they have to be aware of and defend.”

While NPS is widely known as the premier university for mid-level officers to receive a defense-related degree, roughly 15 times a year, the campus welcomes senior Navy Flag Officers as they take part in the Transition Support (TS) Program, hosted by NPS Center for Executive Education (CEE).

The TS program, part of the overall Navy Executive Development Program, utilizes NPS experienced faculty to help flag officer leaders transition into positions of increased responsibility. The admirals visit NPS for two or three days between assignments for tailored, one-on-one discussions with subject matter experts to help them prepare for the challenges that await them in their new positions.

“This is an exceptional opportunity for the Naval Postgraduate School — to be involved in the development and education of the senior leadership of the Navy,” said CEE Director John Frankland.

Program Delivers Custom Courses to Transitioning Flag Officers

By Amanda D. Stein

Recent attendee, Rear Adm. Dixon R. Smith, Commander, Navy Region Southwest spent three days with NPS faculty, explaining that his initial concerns about the time commitment subsided when he found his time at NPS was well spent.

“I'm glad I [attended] as I will now go into my new job and do some things differently,” explained Smith. “If I hadn't attended and increased my knowledge in those areas I knew I was weak in, I would have continued doing the same things as I had previously and wondered why nothing improved.

“I found the executive coaching sessions to be of the most value,” he continued. “It was a time to reflect on my strengths and weaknesses as a leader, and to then discuss how to leverage them to improve my leadership and communication skills.”

Send your faculty news and notes to update@nps.edu.
Making it possible and ensuring essential to the safety and security of the campus, we are reminded that different locations along the campus get through the turnstiles at the gates, or as we swipe our cards to enter in, or as we learn to sit in our cars with our Navy identification, we take for granted in our daily commute, but as we work closely with the military, veteran of the Army and Navy, a 12-year assistant, he said, "I have seen a lot of things, but it’s really important to implement these procedures to ensure something like that never happens again." 

Andres, a 12-year veteran of the Army and Navy, says working at the Pass and ID Office allows him to work closely with the military, helping his former brothers and sisters in arms feel safe as they fulfill their mission at NPS. "I like doing this because it feels like I’m close to the military again," said Andres. "It’s gratifying to give support and safety to so many in this way."

Focus On … Your Identification, Please
A Monthly Look at Names and Faces on Campus

Getting on campus is something we take for granted in our daily commute, but as we sit in our cars with our Navy Region Southwest decals on our windshield waiting for our turn to show our ID and drive in, or as we swipe our cards to get through the turnstiles at different locations along the fence, we are reminded that proper security procedures are essential to the safety and security of the school.

Making it possible and ensuring the process is done properly in the Vehicle Pass and ID Office, just outside of the main gate on Soledad Ave. The office ensures that every person or vehicle attempting to access any of these gates has the proper identification. We need all the proper documentation and permission to do so.

"It’s important to have these procedures," said Security Assistant Sherwin Andres who works at the Pass and ID Office. "Especially after 9/11, it’s very important to implement these preliminary procedures to ensure something like that never happens again."

Andres, a 12-year veteran of the Army and Navy, says working at the Pass and ID Office allows him to work closely with the military, helping his former brothers and sisters in arms feel safe as they fulfill their mission at NPS.
On Campus this Month

**January 4**
New Student Orientation
POC Capt. Alan Poindexter, Ext. 2291

**January 11**
Wave Glider Presentation
David Jackson, Chief Emerging Technology Officer
Office of Naval Intelligence
POC Jerry Ellis, Ext. 2488

**January 14**
26th Annual Dr. Martin Luther King, Jr. Breakfast Buffet
Barbara McNitt Ballroom, Herrmann Hall
POC Denise McCallaCreary, (408) 268-2933

**January 19**
“Protecting U.S. Contracting Funds in Afghanistan”
NPS Foundation Winter Quarterly Event
POC NPS Foundation, Ext. 2339

**January 23**
Gen. Douglas Fraser
Commander, U.S. Southern Command
Secretary of the Navy Guest Lecture
POC Lt. Jenny Phillips, Ext. 2466

**January 25**
“Robo-Ethics: Rhetoric vs. Reality”
A Symposium for the Warfighter
Washington, D.C.
POC Jeff Kline, Ext. 7946

**Historical Highlights**

1912 was a milestone year in the history of the Naval Postgraduate School.

The Navy had established the School of Marine Engineering in 1909 and the first graduates had completed their studies in 1911. Rapid advances in science, engineering and technology—including the development of aircraft and radio telegraphy—and disasters such as the sinking of the *Titanic* convinced Secretary of the Navy George von L. Meyer to rename the school, expand the programs of study and increase student population.

With an executive order, Meyers introduced the new name: the Postgraduate Department, U.S. Naval Academy. The name was subsequently changed to Naval Postgraduate School after World War I.

Historical Highlights are provided by the Dudley Knox Library.