Oceanography Professor Named New DoR

By Amanda D. Stein

NPS Oceanography Department Professor and Chair, Dr. Jeffrey Paduan, has been selected to serve as the new Vice President and Dean of Research, effective July 2. Paduan will be taking over for the current Interim Vice President and Dean of Research, Dr. Douglas Fouts, who has held the position since January.

Commenting on the selection, Paduan said, “I was incredibly impressed with the candidates that stepped forward from the faculty during the search process. I am humbled to have been selected.”

After several months of consideration, Paduan was recommended by the Dean of Research Search Committee consisting of several faculty and chaired by Graduate School of Engineering and Applied Sciences Dean, Dr. Phil Durkee. In a statement released to the NPS community, NPS Executive Vice President and Provost Dr. Leonard Ferrari expressed strong support for the committee’s recommendation.

“It’s my view that research is really an equal partner with the instructional programs on campus in terms of making this a unique institution for the Navy and the students.” – Dr. Jeffrey Paduan

“Based on all of the requirements of the position and the distinctive qualifications of each of the candidates, the committee reached consensus that Professor Paduan should be the candidate,” said Ferrari. “Professor Paduan is chair of the oceanography department and has a significant research and publication record. He has also earned both teaching and research awards at NPS. President Oliver and I concur with both the assessment of the strength of the candidate pool and with the recommendation to appoint Professor Paduan.”

The position Paduan will be filling is an important one to NPS, as the university’s research is highly regarded within and beyond the defense community. Having served in the oceanography department for 21 years, Paduan understands the importance of research, and the challenges that faculty face in funding and executing research projects. Paduan adds that he is looking forward to the opportunity to further acquaint himself with various departments on campus, as the Research and Sponsored Programs Office continues to support the proposal and research functions across NPS.

“It’s my view that research is really an equal partner with the instructional programs on campus in terms of making this a unique institution for the Navy and the students,” explained Paduan. “I think without research that’s cutting edge and competitive with other universities, the campus itself would be much less unique. It’s the research that really adds the breadth to the programs.”
Under Secretary of the Navy Outlines State of the Navy-Marine Corps Team

Under Secretary of the Navy, Robert O. Work, visited his alma mater on May 10 to discuss the “State of the Navy” during a special Secretary of the Navy Guest Lecture in King Auditorium.

Work began by commending the men and women of the Armed Forces for their commitment, noting that the current U.S. Navy and Marine Corps are arguably the best they have ever been.

“The big thing for the Navy and Marine Corps team is that the oceans are more vital to both our national and our global trade than any time in history,” he continued.

Work noted that the military’s organizational structure is as focused as ever on being battle-ready and adaptable. Military leaders are focused on implementing a new strategic concept to reduce operational expenses, and to look for engagement support from allies and partners. However, Work emphasized that a smaller, leaner force does not mean a weaker force.

“We are a Navy and Marine Corps team that is built and ready for war, and we operate forward to preserve the peace,” Work emphasized. “We are first a warfighting organization. [The chief of naval operations] has said it, and the commandant has said it: warfighting first. We are built and ready for war, and well better never, ever lose our edge. But we will operate forward as we always have, since 1798.”

Work spoke about the size and capabilities of today’s fleets, outlining Navy, Marine Corps and Coast Guard assets and manpower. He pointed out the fact that outside of the U.S. Navy, 17 of the 19 next-largest fleets are allies or friends of the United States and they often can be counted on for support. While he acknowledged that many consider the number of U.S. naval ships to be comparatively small now to what it might have been in the past, the versatility of today’s fleet is unparalleled.

“We have big payload bays and open combat systems,” he noted. “We can adapt to the threat faster than bad guys can build ships. It’s a tremendous advantage because we think of ourselves as a total force battle network.”

MEMORIAL DAY PHOTOS

CONCERT ON THE LAWN

On May 28, the Naval Postgraduate School welcomed the local community for the 23rd Annual Memorial Day Concert on the Lawn, to honor and remember those who have sacrificed their lives for their country. The event drew over 2,200 guests, and featured remarks by NPS leaders, local Congressman Sam Farr, and Monterey Mayor Chuck Delta Salas.

Under Secretary of the Navy Outlines State of the Navy-Marine Corps Team

On May 8, Executive Vice President and Provost Dr. Leonard Ferrari participated in the 2nd annual meeting of the NPS International Programs Steering Committee. Formed in 2010 at the request of President Dan Oliver, the committee provides an advisory resource and overall guidance for the university’s international education programs.

On May 12, Ferrari was honored with an Ellis Island Medal of Honor during a formal celebration on Ellis Island in New York. The National Ethnic Coalition of Organizations created the awards program to honor or American citizens who exemplify outstanding qualities in both their personal and professional lives.

On May 28, Memorial Day, Oliver and Naval Support Activity Monterey Commanding Officer Capt. Gerald David were on hand to welcome thousands of members of the local community onto campus for NPS’ annual Concert on the Lawn. The traditional event saw one of the largest crowds in recent years congregate under sunny skies for the Monterey Bay Symphony patriotic performance.

Throughout the month, senior administration and key faculty provided briefings to several key defense leaders during visits to campus. Under Secretary of the Navy the Honorable Robert O. Work was on campus May 10. The Honorable John McHugh, Secretary of the Army, visited campus on May 21. In addition, Chief of Staff of the Supreme Headquarters Allied Powers Europe, German Air Force Gen. Manfred Lange was on campus May 22.

“Today we are here to salute America’s heroes—to honor their memory and recognize their sacrifice....As a military institution, we strive each day to help further global and national security, and to develop tools to assist and protect the warfighter when conflict is unavoidable. We have done so for over 100 years, and we will continue that mission into the future.”

— NPS President Don Oliver

On May 28, the Monterey Bay Symphony patriotic performance brought a tremendous advantage because we think of ourselves as a total force battle network.”

“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.
Alumnus Applies NPS Studies to Building the Navy’s Newest Ships

From the halls of NPS to shipyards across the country, NPS electrical engineering alumna Captain Robert Crowe, Supervisor of Shipbuilding, Conversion and Repair, Bath, now has the opportunity to help the Navy build the most capable fleet in the world. A 2003 graduate, Crowe applied the NPS studies in systems engineering and cyber security to his work.

"Interestingly, I’ve noticed how much of a gap exists between our junior and senior enlisted soldiers in knowledge of the cyber world,” said Crowe. "It’s crucial that we get these senior enlisted soldiers the foundations they need to succeed.”

Upon conclusion of the command and cyber operations brief, Crowe and his staff were joined by local Congressman Rep. Sam Farr for a tour of the university’s Common Operational Research Environment (CORE) lab. The CORE lab, an ongoing center of study under the university’s defense analysis department, is predominately attended by Army officers focusing on data, information technologies and theories applicable to irregular warfare.

“I briefed the secretary on the CORE lab, which is embedded in the defense analysis department,” said Dr. Sean Everton, co-director of the CORE lab. "We train students, most of whom are Army, how to fuse cutting-edge methodologies, such as social network analysis and geospatial analysis, to real world situations, so that they can gain a better understanding of the operating environment.”

NPS Leadership Brief Army Secretary McHugh

By MC1 Grant P. Ammon

Secretary of the Army, the Honorable John McHugh, visited the Naval Postgraduate School, May 21, to learn more about research conducted by the university and to see the academic programs military officers take part in. McHugh and his staff began the afternoon by receiving a command brief from NPS President Dan Oliver and key faculty members. The group was briefed on the development of the university’s new cybersecurity degree program.

“The Naval Postgraduate School is an important place to the Army, and we need to make sure we are taking full advantage of it,” said McHugh during the command briefing. “The joint approach to training at the graduate and postgraduate level is impressive and I have an enormous respect for the work that is being done here. I want to know how the Army can help your efforts.”

Dr. Cynthia Irvine, director of the university’s Cyber Academic Group, delivered an overview of the NPS master’s degree focused on cyber systems and operations. “We’re here to focus on maximizing cyberspace operational effectiveness, and we’re very excited about the programs in this field of study that we’re offering our students,” said Irvine during her presentation.

Noting the gap of cyber proficiencies between senior and junior service members, McHugh applauded university efforts in the area of cybersecurity and specifically the efforts targeting senior enlisted personnel. McHugh ended the visit with a briefing on a current research project that uses smartphone technology to collect and analyze information to fuse cutting-edge methodologies, such as social network analysis and geospatial analysis, to real world situations, so that they can gain a better understanding of the operating environment.

For the second year in a row, the Naval Postgraduate School hosted the Monterey County Mathematics Competition, May 12. In its 4th year, the competition brought hundreds of "math geeks" from the local community for a day of mathematical competition.

"Math is the gatekeeper for future opportunities,” said Dr. David Nickles, NPS Director of Research Communications and Outreach during a break in the competitions. "Without math, they can’t get into other fields that can open doors to their futures.”

In support of the increased demand to spark interest in science, technology, engineering and mathematics fields of study, NPS has increased its outreach activities and support of events such as the Mathematics competition.

"We are so grateful to NPS for hosting this event for a second time,” said Monterey County Math Coordinator and Administrator Linda Dilger during the event. "Just being here with other kids that are high achievers, and seeing the facilities and interacting with the volunteers and faculty, is an excellent experience for these kids.”

As a highlight to the experience, the mathletes were treated to a presentation from former NPS pilot and astronaut Capt. Dan Bursch, who emphasized that without having a proclivity for mathematics, he would not have been able to become an astronaut.

"I design test equipment so I can test processors that go into computers. And it’s a lot of math, a lot of science, and a lot of engineering,” she added. “You can be strong, you can be beautiful, and you can be smart. You can be all three.”

In addition to encouraging young people to embrace education and be confident in themselves, she spoke about the importance of being a global citizen, and encouraged parents to help their kids be open to a world beyond their immediate environment.

For more information about the Mathematics Competition, please visit nps.edu.
Focus On … Keeping GSBPP Organized

A Monthly Look at Names and Faces on Campus

When entering the office of Graduate School of Business and Public Policy (GSBPP) Dean Bill Gates in Ingersoll Hall, Secretary Mary Lou Vossen is the friendly face that visitors see first. She has proudly served as the liaison between the dean and the NPS community for the past seven years. This year is a particularly noteworthy one for GSBPP as the school celebrates 50 years of graduate business education at NPS.

In addition to maintaining Gates’ calendar and ensuring he is on time for his appointments, Vossen interacts with the GSBPP students and faculty in their thesis process and various project proposals.

“The faculty, staff and students are the greatest,” Vossen noted. “I support them and they support me.”

She is also the go-to for the department’s conference rooms, ensuring they are available as needed. Vossen enjoys interacting with individuals from across campus when they stop by to take advantage of the dean’s open-door policy.

“My job is very interesting and rewarding. There are always many different topics of interest coming and going from this office, and we think our dean is the greatest,” she remarked. “My challenge is working in the dean’s office is keeping a dozen things going at once.”

And her work is certainly noticed and appreciated by the department.

“The [Naval Postgraduate School] is the one place in the world that research is being done on acquisition,” he noted. “We have to figure out how to tap into this resource better than we have been doing before.”

Well versed on the symposium’s impact, NPS President Dan Oliver has seen the event evolve over the years. “I’m very proud the Naval Postgraduate School is able to host the symposium,” said Oliver. “This is clearly not just a conference that happens once a year, but an opportunity to continue a dialogue that goes on all year, and a chance to highlight the ongoing work that all of you are involved in.”

Participants of the symposium brought equal praise to the event, noting its unique role in introducing academicians working on acquisition research to senior policymakers in the field.

“There is no other place that brings together acquisition policymakers with those very technical people focused on research,” said Dr. Bob Kenley, a Research Associate at the Massachusetts Institute of Technology, and presenter at the symposium. “The policymakers … and researchers were actually interacting with each other and understanding each other. It makes them better able to perform their jobs, and hopefully in the long run, it will support the military with the efficient procurement of systems,” he added.

The Honorable Frank Kendall III, Acting Under Secretary of Defense for Acquisition, Technology and Logistics, the Honorable Frank Kendall III, and Assistant Secretary of the Navy for Research, Development and Acquisition, the Honorable Steve Stokely — were honest, candid and to the point.

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On Campus this Month

June 1
Premier of “Inside NPS”
Pentagon Channel
POC Alan Richmond, Ext. 3649

June 2
Battle of Midway Dining Out
POC Ken Johnson, (831) 657-9793

June 5
Spring Quarter Awards Ceremony
POC Capt. Alan Poindexter, Ext. 2291

June 8
Daddy Daughter Dance
POC Morale, Welfare and Recreation, Ext. 7955

June 15
Spring Quarter Graduation Ceremony
POC Capt. Alan Poindexter, Ext. 2291

Historical Highlights

In 1924 Lt. Laurance Safford, often called the “father” of Navy cryptology, became the officer-in-charge of the Office of Naval Intelligence Code and Signal Section. The following year, in a prescient speech to Naval Postgraduate School students, Safford said, “In a war between nations of approximately equal strength, radio intelligence could easily become the decisive factor.”

By the late 1920s, NPS communications courses included coding and decoding; by the early 1930s, cryptography and cryptanalysis. Adm. Chester Nimitz expanded NPS student input in radio engineering and communications in 1939 and later added specialized graduate programs for Navy reservists. The first reservists in communications intelligence, shown in a class photo below, completed their studies in the summer of 1941. These NPS alumni were well prepared for immediate assignment to cryptology units during the rapid, post-Pearl Harbor mobilization. They played an important role in breaking the Japanese code, JN-25, which led to key victories at the Battles of Coral Sea and Midway in 1942.

Historical Highlights are provided by the Dudley Knox Library.