



University Names Newest Distinguished Professors

By MC2 Kellie Arakawa

Five professors at the Naval Postgraduate School (NPS) have received the title of "Distinguished Professor" in honor of their significant contributions to the Navy, the university and their respective academic fields.

Dr. Dorothy Denning of the Defense Analysis Department, Dr. Nancy Haegel of the Physics Department, Dr. Robert Looney of the National Security Affairs Department, Dr. Michael Morgan of the Electrical and Computer Engineering Department and Dr. Kevin Wood of the Operations Research Department, were formally conferred their titles by NPS Provost Dr. Leonard Ferrari at the Spring Quarter Graduation Ceremony in June.

"The title of 'Distinguished Professor' is the highest academic honor the Naval Postgraduate School bestows upon its faculty, and I was very pleased to award some of our most accomplished professors their new titles," Ferrari said. "The significant contributions each of them has made to research are not only a reflection of their individual efforts, but of their departments and our institution as a whole."

"I love working with my colleagues and overall, these are the best students I've ever had," said Denning, a computer scientist who specializes in cyberwarfare, cyberterrorism, and computer and network security. Denning has received some of the most prestigious awards in her field, including the ISSA Hall of Fame Award and Harold F. Tipton Award. She was also recognized as a Security Innovator by Time magazine in 2001.



(From left) Drs. Dorothy Denning, Kevin Wood, Robert Looney, Michael Morgan and Nancy Haegel show off their Distinguished Professor medallions upon being conferred by Provost Leonard Ferrari at the Spring Quarter Graduation Ceremony June 19. U.S. Navy photo by Javier Chagoya.

Haegel, who also received this year's Schieffelin Award for Teaching Excellence, has helped pioneer research in transport imaging in semiconductors. Her research group has also led the development of an "Identify Friend or Foe" patch, which aims to mitigate fratricide by identifying friendly forces during nighttime operations.

"[This is] an acknowledgement from your peers in your academic community that you've made contributions and will continue to do so ... that's very satisfying," she said of her selection, while also crediting her col-

leagues in the Physics Department, whom she added are extremely generous with their time and support.

Looney, a researcher and author specializing in Middle East and international economics, has been teaching at NPS since 1979. Once ranked 18th out of the world's 250 most productive economists, his remarks mirror that of many of his colleagues ... the students are what makes NPS different from any other institution. "The students bring a lot to the classroom, and many of them are foreign officers or students who have been stationed in

the Middle East, so it gives me a chance to get quite a bit of feedback on their experiences and reactions to the economic situations there," he explained.

Morgan, an NPS teacher for 30 years, was elected as a Fellow of the Institute of Electrical and Electronics Engineers, which is considered one of the highest levels of recognition in the electrical engineering field. Morgan praised NPS' research program, calling it a core component of the school's educational experience.

"There's a wide range of research available," he said. "All the way from very fundamental things to highly classified areas that you wouldn't get to work on at other universities ... and every student here gets the opportunity to work on a real research project."

Wood, an operations researcher, has been teaching at NPS since 1982. His research has focused largely on interdiction, which includes ground-breaking research on mathematical theories that have contributed to the development of analysis tools for planning attacks on networks and defending against missile and submarine attacks.

"One of the biggest resources at NPS is the access to real-world problems that come directly from the students," he explained. "Compared to a civilian university, where you really have to search to find interesting, real-world problems to work on, they just fall into our laps here. Teaching our students has been rewarding because of that fact ... but their outstanding motivation doesn't hurt either."

Symposium Explores Changes in Defense Acquisition

By MC2 Kellie Arakawa

The Naval Postgraduate School (NPS) Acquisition Research Program hosted the 6th Annual Acquisition Research Symposium May 13-14 in Monterey, Calif. This year's theme, "Defense Acquisition in Transition," addressed pending changes in the acquisition process brought forth by both the new presidential administration and current economic environment.

This year's symposium addressed the changes taking place within the acquisition field, and opened with a discussion on the "National Security Acquisition Agenda for the New Administration," led by Former Under Secretary of Defense (Acquisition, Technology and Logistics) Jacques Gansler. The forum also included more than 20 different panels and 100 research papers, which covered a myriad of interdisciplinary topics ranging from program and policy analysis to acquisition challenges overseas. In addition to dozens of NPS faculty members, researchers from over 20 other universities participated.

"What makes this symposium unique is that there is no other forum where these senior acquisition people can get together and participate in a public discussion like this," said retired Rear Adm. James Greene, the Acquisition Chair. "We provide the forum for them to not only talk about changes in acquisition, but other internal issues that directly affect the acquisition process."

Greene also noted that this year, both the President of the United States and members of Congress have expressed high levels of interest for these issues. "Because the President is very

focused on DoD's acquisition processes, and with Congress picking up on this theme as well, the whole DoD acquisition process is going to be in transition," he said.

Feedback from the symposium has been extremely positive, and Greene described this year's research papers as "absolutely phenomenal." The rise in high-quality research reflects the growth of the Acquisition Research program, which was established in 2003 with the intention of reaching out to scholars and researchers across the country, not just those at NPS.

"The whole idea of the program is to get some original thought on these [acquisition] processes in order to get ahead of some of the policy making, and I think we are in fact doing that," said Greene. He added that a number of faculty members associated with the program have testified before congressional committees, and believes that their research and expertise is influencing the way policy in Washington is being written.

Because of its research component, the Acquisition Program also benefits NPS students by enhancing their educational experience. "Our faculty are very much engaged in real, relevant issues facing the DoD ... and they can inject their research right back into the classrooms, so ultimately the students are the benefactors of this," Greene stated. "I think the synergy between the research and education, and what the students then bring to their new jobs after they leave here, is really one of the hallmarks of the program."

The overarching goal of the NPS Acquisition Program is to create original research on defense acquisition and procurement processes, focusing on specific facets such as logistics, budgeting, finance, program management, contract management and systems engineering. For more information about the Acquisition Research Program and to view research papers from the symposium, visit www.acquisitionresearch.org.

Army Lt. Gen. Ross Thompson III (right), Military Deputy, Assistant Secretary of the Army (Acquisition, Logistics and Technology), speaks to participants of the 6th Annual Defense Acquisition Research Symposium. Dr. Jacques Gansler (left), Director for the Center for Public Policy and Private Enterprise and a former Under Secretary of Defense joined Thompson for the opening panel discussion. U.S. Navy photo by Javier Chagoya.



IN BRIEF

- ♦ The Fourth Annual America's Heroes Charity Golf Tournament and Auction will be held at the Monterey Peninsula Country Club on August 11, 2009. The NPS Foundation established the tournament in 2006 to raise funds to assist U.S. troops wounded in combat – to date, over \$1.5 million has been raised. Charities benefitting from this year's tournament include the Injured Marine Semper Fi Fund, Navy Marine Corps Relief Society Casualty Assistance Fund, Sentinels of Freedom Scholarship Foundation, and the NPS Foundation. For more information about the tournament, visit www.npsfoundation.org/golf.php.
- ♦ Twenty-eight HR Commanders (120X designator) and one civilian HRO/Region N1 expanded their professional expertise by completing the HR Advanced Course hosted through the HR Center of Excellence in the Graduate School of Business and Public Policy (GSBPP). The 17-day course included instructional modules and practical exercises lead by a combination of Navy Total Force subject experts and GSBPP professors. Vice Adm. Mark Ferguson, Chief of Naval Personnel (CNP), participated by video-conference with Rear Adm. Dan Holloway, N13, speaking in person with the class about Navy personnel management dynamics and pressures associated with the rising cost of manpower. Also participating was former CNP and current NPS President, Vice Adm. Daniel Oliver (Ret.), who conducted a discussion session regarding Navy personnel issues and leadership from the top. Throughout the short course, students were exposed to the full array of manpower, personnel, training and recruiting aspects that make up Navy HR work.
- ♦ The Naval Inspector General (NAVIG) Command Inspection of the Naval Postgraduate School is scheduled for August 3-7, 2009. As part of the inspection, the NAVIG has provided a survey regarding job satisfaction, health and safety, and the overall quality of life at NPS which all military and civilian personnel were encouraged to complete.

Message From
Provost Leonard Ferrari



While more than a month has passed since the extraordinary Memorial Day celebration that marked the beginning of the Naval Postgraduate School's Centennial Anniversary, the excitement of this historic milestone can still be felt across the Quad. Perhaps it is the impressive timeline stretching the length of Root Hall or the Centennial banners waving majestically throughout campus that stand as a constant reminder that our university has been impacting the world for 100 years!

Or perhaps it is something else. If you agree with President Oliver and me, the excitement is not born from how long we have been here or what we have done in the past, but rather,

what we are doing today and what we will do in the future. I firmly believe our fine university is just beginning to scratch the surface of what we are becoming – an academic institution where world-recognized experts infuse unsurpassed intellectual vitality into a first-rate educational experience that, in our areas of expertise, rivals and surpasses that of any university in the country.

We have seen impressive growth in our research program over the last several years as well, now pushing the \$200 million threshold. Everything that we do, from our rapidly expanding research efforts to our uniquely superior educational programs, has a direct impact on the security of the United States and our international partners. I have spent many years in academia, and I would challenge you to find any institution whose mission is so clearly defined, and whose efforts are so aligned in support of that mission. It is for these reasons that my excitement is building, and I suspect it will continue.

During our Reunion Weekend, we talked about the Centennial Celebration continuing throughout the entire year, and I am very eager to announce another upcoming event honoring our 100 years of excellence. Chief of Naval Operations Adm. Gary Roughead has offered to host a reception in our honor in Washington, D.C. in September. Attending this event will

be the highest levels of leadership throughout the Departments of Defense, and beyond – service Secretaries, leaders of the Pentagon, Homeland Security, Intelligence, members of the Obama Administration and many more. This truly is an extraordinary opportunity to share the story of the Naval Postgraduate School directly with the men and women that shape our institution, direct our budget and define our existence. Students, faculty and staff from across every discipline and department will be included in this event, presenting their research and educational efforts to this critical constituent group.

Additionally, in conjunction with our fall Board of Advisors meeting, we will be hosting a day-long research showcase at the Office of Naval Research (ONR) at the request of Rear Adm. Nevin Carr, Jr., Chief of Naval Research and an Operations Research graduate of NPS. The Navy funds about 30 percent of our sponsored research programs, and I see this event as an excellent opportunity to expand our relationship with ONR and increase that figure.

Throughout the coming weeks, you will certainly hear more about these and other upcoming events, and I encourage you all to share your thoughts on how best to tell the story of NPS, the nation's premier national security research university.

Announcements

Ms. Colleen Nickles will join the executive leadership team on July 6, 2009 as Special Advisor to the Office of the President. Ms. Nickles previously served as the Assistant Vice Chancellor, Financial Services, for the California State University (CSU), Office of the Chancellor, and as Assistant Vice President-Finance and Chief Financial Officer at the CSU Monterey Bay campus. Prior to the CSU

System, Ms. Nickles worked in Budget and Financial Analysis at the University of California, San Francisco, and in the Office of the Senior Vice President as the Director of Business and Finance Operations, and at the Office of the Treasurer, both in the system-wide offices of the University of California. In her capacity at NPS, Ms. Nickles will be spearheading a number of initiatives for improving

business and administrative processes.

The Modeling, Virtual Environments, and Simulation (MOVES) Institute is pleased to announce the 9th Annual Research Summit hosted at NPS from July 21-23. The Research Summit is a valuable tool to connect government, military and civilian industry sectors to engage in meaningful discussions about training and

analysis products, education and exemplary research in the field of modeling and simulation. The three-day event will include presentations, breakout sessions, networking reception and a research demonstration night. This year no registration fee will be collected, however pre-registration is mandatory. Those interested in attending should e-mail Holly Hatlo, hehatlo@nps.edu.

Celebrating a Culture of Advanced Computing for Academia

By Barbara Honegger

The Naval Postgraduate School's Information Technology and Communication Services (ITACS) celebrated more than half a century of academic computing with historical presentations, an open house and ribbon cutting for its new information technology archives and photo gallery as part of Centennial Kick-Off weekend, May 22.

"Why has the Naval Postgraduate School been such a pioneer and leader in information technology?" President Daniel Oliver asked the audience in Ingersoll Hall auditorium during his welcoming remarks. "It's because IT is not just a support function here. It's a mission and a national security imperative to keep our computing systems on the cutting edge. Congratulations to [Vice President for Information Resources] Dr. [Christine] Cermak and all of your team. I'm so proud of all of you and your accomplishments on this wonderful occasion of NPS' Centennial."

"What an inspirational day this 100th anniversary celebration of the Naval Postgraduate School is," Cermak said in opening her talk reviewing the School's challenges and partnerships reflected in the newly unveiled NPS Centennial Timeline. "ITACS takes the technological challenges proposed, invented and developed by faculty and students and makes the technologies more reliable, more user-friendly, more secure, scalable to enterprise-wide use, more accessible, and adaptable to emerging conditions. ITACS partners with our faculty and students so we're not just reacting to change, but are part of the discovery process."

As part of the celebration, three industry leaders gave presentations along the theme "Technology as Mission Critical" – Casey Palowitch of SUN Microsystems, Cmdr. Don Mitchell of Schneider Electric, and Victor Jacobsen of Xerox Corporation. "History is the story of military victory through superior information, so information technology is

a strategic priority in both war and peace," Palowitch said during his presentation.

Perhaps the highlight of the event was a retrospective on the evolution of NPS information technology by its founder and leader of over three decades, Professor Emeritus Douglas Williams.

"It's a wonderful experience to be back at NPS after 15 years," said Williams. "When I came here from the University of Edinburgh [Scotland] in 1953, all the students had slide rules and no one used [computing] machines. Soon, NPS was offering two of the first computer science programs in the world. In just two hours, we were able to teach them FORTRAN and, once they had access to the mainframe, were able to solve a whole quarter's problems in only three days. That got the faculty's attention."

"The need to integrate the computer into the educational system is paramount," Williams stressed. "Because of the importance of NPS

to the future of the Navy, my goal throughout was to keep NPS at the forefront of academic computing

and to make it freely available to all faculty and students in support of research and teaching."



Two generations of NPS computing pioneers meet in the new High Performance Computing (HPC) Center. Professor Emeritus Doug Williams (left), NPS director for computing from 1961-1994, founded the W.R. Church Computer Center where he led the continual installation of the latest computing technology and software updates. His current peer, HPC Manager Jeff Haferman (right), takes Williams on a tour of the newly installed facility following the ITACS' ribbon cutting ceremony. U.S. Navy photo by Javier Chagoya.

CALENDAR

July 3

Independence Day Holiday Observed

July 9-12

International Telecommunication Teleconference
 POC Jane Barreto Ext. 3397

July 9-20

Leader Development and Education for Sustained Peace
 POC Sgt. Fields Ext. 7678

July 16

Rear Adm. John Padgett, USN (ret.)
 Menneken Lecturee
 POC Rear Adm. (ret.) Jerry Ellis Ext. 2488

July 16-24

NWDC Rear Adm. Wendy Carpenter
 Innovation Workshop: Self-Propelled Submersibles
 POC Jeff Kline Ext. 7946

July 21

Dr. Thomas Fingar
 Professor, Political Science, Stanford University
 Secretary of the Navy Guest Lecture
 POC Protocol Ext. 2466

July 21-23

New Fighting Machine War Game
 Center for Executive Education
 POC Jeff Kline Ext. 7946

HISTORICAL HIGHLIGHTS

Physics/chemistry professor Gil Kinney earned a membership certificate for the Domain of Neptune Rex when he crossed the line aboard the USS Laffey in July 1946. Kinney was returning from Bikini Atoll, where he served as a scientific adviser for Operation Crossroads, the series of nuclear weapons tests on naval ships.

Kinney's 1962 book, *Explosive Shocks in Air*, would be considered a major, authoritative work and the book's 1985 edition continues to be used as an important reference source today. Kinney received the Naval Postgraduate School Distinguished Professor Medal shortly after the first edition was published. The medal is part of the current NPS centennial exhibition at the Monterey Maritime & History Museum titled, *Hidden History: Untold Stories of the Naval Postgraduate School*.

Historical Highlights are provided by the Dudley Knox Library.