

NPS Establishes New Global Public Policy Academic Group

By MC2 Kellie Arakawa

A strong need for in-depth research that explores the relationship between globalization and national security recently prompted the Naval Postgraduate School (NPS) to establish the Global Public Policy Academic Group (GPPAG), an interdisciplinary group that will draw expertise from across the NPS campus to create defense-related global public policy research and educational programs.

At NPS, an academic group is an organization led by a core team of faculty that addresses multidisciplinary topics and initiatives, NPS Provost and Executive Vice President Leonard Ferrari said. The school currently has an academic group dedicated to space systems, which includes academic departments that study computer science, engineering, mathematics and applied sciences.

While the Graduate School of Business and Public Policy (GSBPP) as well as the School of International Graduate Studies examine public policy and international security issues, Ferrari felt it was important to bridge their expertise with those in the computing, science and engineering fields.

"We look at globalization and national security, and it's really an interdisciplinary area," explained Dr. C.J. LaCivita, Executive Director of the Defense Resources Management



Institute (DRMI), who will serve a joint appointment as the GPPAG chair. "Rather than try to put it [GPPAG] in one school, the idea was to form a group which would allow joint appointments for people from all over campus who might have interest in particular topics that we're working on."

Although participating professors and contributing academic departments have yet to be determined, professors from DRMI and the Cebrowski Institute for Innovation and Information Superiority have committed to joining the group, as will GSBPP Prof. Frank Barrett, who will serve a joint ap-

pointment as the GPPAG's associate chair. Faculty from all departments at NPS will be eligible to participate in the group's research programs both formally and informally.

LaCivita said the GPPAG is still in early strategic planning stages where it is determining goals and a full vision for the future. "Ideally, we would like the group to be involved in research-led education; we want to establish a strong research program and have that lead to education programs," he explained.

Specific research areas are also still being outlined, but LaCivita suggested that issues with significant global market and security

implications – such as energy security and cyber security – are potential areas of study for the group.

Plans for future research may involve collaborations with other universities and outside organizations, as well as a doctorate or master's degree program that would allow students to take global public policy core classes and then emphasize in a specific area such as international business or maritime security. Certificate programs using current courses from various academic departments may also be integrated into the group's educational curricula.

Ferrari believes the new academic group is well-suited for NPS because it addresses important international issues that impact national security – a primary area of study at NPS. "Also, we think it's important for military officers to have a deeper understanding of the international community that they're going to be working in," Ferrari stated.

Given the interconnectedness of the world and the accessibility of technology today, it's important for an institution like NPS to examine these topics, LaCivita said. "What we do is take a topic like globalization and say, 'How does that relate to national security?' That's where we think our niche is," he added. "What we're trying to do is focus on exactly the kind of thing that NPS does really well."

For more detailed information about the GPPAG visit www.nps.edu/pao/docs/OP_Announcement_2_08_Global_Public_Policy_Group.pdf.

Golf Course Annex Gets High-Speed Boost

By MCSN John Fischer

For such a cool, sunny day, not a single set of golf clubs gleamed on the greens at the Monterey Pines Golf Course. True, there may have been golfers aplenty at the clubhouse that day, but all were present for a more ceremonious purpose than putting.

The gathering of leadership, faculty, students and staff was in response to the Gigabit Light Speed and Beyond ribbon-cutting ceremony Jan. 16, celebrating one of the milestones of the Information Technology and Communications Services (ITACS) at the Naval Postgraduate School (NPS).

Monterey Pines is home to remote research facilities collectively known as the Golf Course Annex Labs, which were essentially inaccessible via the NPS network. The labs are attached to the Mechanical and Astronautical Engineering (MAE), Electrical and Computer Engineering (ECE), Physics and Oceanography programs.

"This project, which adds the high-speed connectivity between our station out here and mother ship NPS, is not only helping our computational abilities, but also our experimental capabilities," said Knox Millsaps, both a Professor and Department Chair for MAE.

"Up until about four years ago, I felt like I was at the end of the world out here," said Chris Brophy, Associate Professor of MAE and the Director of the Rocket Propulsion Laboratory. "When I arrived in 1997, three labs had one 28.8 [Kbps] dial up connection to share in order to connect to campus."

Download time has decreased considerably with recent network updates. "We can now transfer about one fourth of a gigabyte in 30 seconds," explained Garth Hobson, Professor of MAE and Director of the Turbopropulsion Lab. "It used to take about half an hour. We can finally visualize data in real-time."

The change-over was led by Doug Weismann, the Collaborative Networking Program Manager for ITACS. He brought to the forefront the fact that the challenging task was accomplished thanks to incredible assistance and cooperation between ITACS, the Annex Lab Research Faculty and Morale, Welfare and Recreation (MWR), which runs the golf course. Through the combined efforts of these NPS forces, every stage of the new network project was laid down almost seamlessly.

"We anticipate making very good use of this," proclaimed Bill Colson, Distinguished Professor of Physics. "There will be about 40 experts from around the country reviewing our [Free Electron Laser] Program, and the Free Electron Laser Program nationally, and this upgrade could not have come at a better time."

"This is just the beginning," said Weismann. "Welcome to the world of light speed."



(from left) Garth Hobson, Professor of Mechanical and Astronautical Engineering (MAE) and Director of the Turbopropulsion Lab, Chris Adams, Lecturer of MAE, Doug Weismann, the Collaborative Networking Program Manager for Information Technology and Communications Services, NPS President Daniel T. Oliver, Sivaguru Sritharan, Dean of the Graduate School of Engineering and Applied Sciences, and Chris Brophy, Associate Professor of MAE and the Director of the Rocket Propulsion Laboratory, all take part in a 'ribbon-cutting' ceremony at Monterey Pines Golf Course, Jan. 16, 2009.

IN BRIEF

- ♦ The Center for Stabilization and Reconstruction Studies (CSRS) has received a grant from the Compton Foundation to underwrite travel costs for representatives from Non-Governmental Organizations, Inter-Governmental Organizations, and non-U.S. Government civilian agencies to participate in CSRS courses. CSRS, a teaching program for practitioners of humanitarian, peace and stability operations, regularly convenes mixed groups of NGOs, IGOs, government civilians and representatives of the armed forces.
- ♦ The Office of Continuous Learning has changed its name to the Center for Educational Design, Development and Distribution, or CED3, of which Tom Mastre is the Director.
- ♦ Ridership on the MST free direct shuttle program from La Mesa and Ft. Ord to NPS and back has increased to 245, and is growing. The program is an example of a successful collaboration, and includes support for 45 international student-riders. For additional information about the program, or to apply as a new rider, please contact Mike Trochez at Ext. 3263 or Pete Randazzo at Ext. 2400.
- ♦ The entire NPS family is invited to participate in the Alumni Relations Centennial Reunion from May 22-25, 2009, which will be open to all current and past students, faculty and staff. Community-wide events include campus tours, departmental open houses and public programs at Monterey's Maritime Museum. For more information about the reunion, or to find out how to plan your department's open house, contact the Alumni Relations Office at Alumni@nps.edu or (831) 656-2077.

WASC Update

- ♦ NPS has created a new Web site for the WASC reaffirmation process. It can be found at <http://intranet.nps.edu/WASC/Default.aspx>. The Capacity and Preparatory Review Task Force has held several briefings on the upcoming visit including the Strategic Planning Council, Deans and Chairs (which also included Academic Associates, Program Officers and Associate Chairs) and the WASC Steering Committee. The briefings include a review of the visit timeline, the visit team membership and a review of the issues WASC will likely be focusing on during the visit.

Message From Provost Leonard Ferrari



I am pleased to announce the appointment of Dr. Karl van Bibber to NPS Dean of Research. A former Chief Scientist of the Physical Sciences Directorate at Lawrence Livermore National Laboratory, Dr. van Bibber supervised an organization of 400, including 275 Ph.D. scientists, and was a member of the core management team that developed the National Ignition Facility Sciences program. Educated at MIT, Dr. van Bibber also taught there and at Stanford and UC Berkeley. Dr. van Bibber's

major research interests include being a spokesperson for large-scale dark matter axion search, a project leader for LLNL's PEP-II accelerator and BaBar detector, and a program leader for the Linac Coherent Light Source.

Equally good news is the appointment of Associate Professor and Associate Dean of Research Bill Gates as the Dean of the Graduate School of Business and Public Policy effective February 1, 2009. A graduate of Yale (Ph.D.) and UC San Diego, Dr. Gates has been an economist at the Jet Propulsion Lab, a professor of economics at GSBPP and an adjunct professor of economics at Golden Gate University and MIIS. A recipient of the Allen Griffin award and a finalist for the Rear Adm. John Jay Schieffelin award, Dean Gates' interests include policy analysis, micro- and macroeconomics, cost-benefits analysis, game

theory, incentive contracting, economics of defense alliances and government R&D and technology policy.

On March 11-13, 2009 a team from the Western Association of Schools and Colleges (WASC) will visit NPS to examine and review NPS' capacity to provide high-quality, graduate education, to explore the School's funding, facilities and resources, and to conduct interviews with faculty, students, administrators and staff. By law, every 10 years educational institutions undergo a reaffirmation of their regional accreditation, and NPS is midway in that process. Chaired by Dr. Mary Lyons, President of the University of San Diego, and faculty and administrators from Stanford, UCSC, San Francisco State University and the University of Maryland, the visit by the WASC team follows the submission of the Capacity and Prepara-

tory Review (CPR) Report. The document received broad review and input from across campus, and presentations of findings were made to major NPS governance committees and councils. The final report was distributed to the Board of Advisors in October and submitted to WASC in December 2008.

During the month of February, there will be further briefs and discussions to prepare the campus for the visit. WASC will be making available a confidential e-mail address to which faculty, staff and students can comment on accreditation issues. The e-mail address will be circulated by bulk e-mail shortly.

Please join me in welcoming the WASC team in March, and Drs. Gates and Van Bibber to their new positions at NPS, as we continue our march toward reaccreditation and greater success.

Faculty Notes

Prof. Knox T. Millsaps, Chairman of the Mechanical and Astronautical Engineering Department, has become the Editor-in-Chief of *Global Gas Turbine News*, a joint publication of the American Society of Mechanical Engineers (ASME) and the International Gas Turbine Institute (IGTI). *Global Gas Turbine News*, a quarterly publication with a circulation of over 135,000, is the leading publication in the world for the gas turbine, power and propulsion industry.

NPS recognized the passing of **retired Vice Adm. Thomas Hughes**, who had a long and distinguished career of more than 43 years of active Naval service, as well as many executive positions, including the President and CEO of Navy Federal Credit Union. Hughes joined NPS in 2002 and held positions of Distinguished Visiting Professor, Conrad Chair for Financial Management and Acting Dean of the Graduate School of Business and Public Policy.

Profs. Donald Stoker and **Hal Blanton** of the Naval War

College's Monterey program, with **Frederick Schneid** of High Point University, recently published the edited volume titled *Conscription in the Napoleonic Era: A Revolution in Military Affairs?* (Routledge, 2009).

Field demonstrations, begun three years ago via a series of progressive graduate student research projects and led by **Profs. José Sinibaldi** and **Ron Brown** (Physics Department), culminated at the Naval Air Station in Fallon, Nev., where a low-cost, surgically precision-shaped charge device for neutralizing explosive ordnance was demonstrated. The plastic-encased 25 mm device weighs less than 40 grams and contains nitromethane, a flammable organic liquid used commercially in fingernail polish removers, super glue solvents and race car fuels. It is sensitized in situ by the automated injection of an organic amine just prior to use along with the insertion of a metal liner.

Tenure-Track Faculty Hires

Dr. Arturo C. Sotomayor, Assistant Professor in National Security Affairs, was an assistant professor in International Relations and Latin American Politics at the Centro de Investigación y Docencia Económicas (CIDE) in Mexico City for three years before joining NPS in January 2009. He held a post-doctoral fellowship position at Tulane University's Center for Interamerican and Policy Research in New Orleans in 2008, and was a public policy scholar in the Mexico Institute

at the Woodrow Wilson Center for International Scholars, in Washington D.C. A recipient of a Ph.D. in political science from Columbia University and a B.A. degree in International Relations from the Technological Autonomous Institute of Mexico (ITAM), Sotomayor is currently working on a book manuscript on Latin American engagement in UN sponsored peace operations, and is doing research on border dispute settlement in the Western Hemisphere.

Looking Back at 1909

As the School celebrates its centennial year, the Alumni Relations Office reviewed some of the events of 1909 in Navy, national and international history. Here's what was happening in the world during the initial year of what is now the Naval Postgraduate School.

- U.S. troops left Cuba.
- The U.S. Navy's Great White Fleet completed its circumnavigation of the globe.
- Polar explorer and Navy Rear Adm. Robert Peary reached the North Pole.
- In June, the Naval Postgraduate School was established as the School of Marine Engineering at the Naval Academy. The school began with 10 students and two instructors, who met in two attic rooms.
- Capt. Edward L. Beach published *Ralph Osborn: Midshipman at Annapolis*, the latest in his series of boys' books about the Naval Academy.
- Guglielmo Marconi received the Nobel Prize in physics for development of wireless telegraphy. "Recent developments in radio telegraphy," were featured in the early years of NPS curriculum.

- Orville Wright set an altitude record by flying at 1,600 feet. (Aviation did not come to Annapolis until 1911.)
- The Arapahoe transmitted an SOS distress signal, becoming the first American ship to do so.
- Is there life on Mars? Astronomer Percival Lowell wondered in an article in *Science* magazine. A century later, NPS has educated 34 astronauts, more than any other graduate university in the world – and scientists are still asking that question about Mars.
- The Navy established a base at Pearl Harbor, and Lt. J. O. Richardson, a member of the first NPS class, began postgraduate study; Richardson would become Commander in Chief, U.S. Fleet, in 1940.

A lot has happened since 1909, but one thing hasn't changed: the Naval Postgraduate School is still making history! To find out how you can get involved with the NPS Centennial, contact the Alumni Relations Office at Alumni@nps.edu.

CALENDAR

February 4

Scott Lutterloh, N15
NPS site visit
POC Protocol Ext. 2466

February 5-6

CNO USW Innovation Workshop
Open to all NPS students
POC Prof. Jeff Kline Ext. 7946

February 6

Capt. Kathryn M. Hobbs
NPS Dean of Students
USN Retirement Ceremony
1:00 p.m. Herrmann Hall Chapel
POC Tela Long Ext. 2291

February 9

Prof. Gunnar Carlsson
Stanford University
Lecture: Math department
POC Prof. Wei Kang Ext. 3337

February 9-13

CNO USW War Game
POC Retired Rear Adm. Jones Ext. 2488

February 10

Army Lt. Gen. Thomas Metz
Commander of the JIEDDO, Deputy Commanding General and Chief of Staff,
U.S. Army Training and Doctrine Command
Secretary of the Navy Guest Lecture
POC Protocol Ext. 2466

February 15-21

Dr. John Nash Jr., Nobel Laureate
Princeton University
Distinguished Lecture: "Cooperative Games and Agencies Method"
POC Dean Sritharan Ext. 2660

February 16

President's Day Observed

February 17-19

Senator Fernando Flores, Chile
Cebrowski Institute/Dr. Peter Denning
POC Sue Higgins Ext. 3596

February 18-19

NPS Foundation Event
Orange County, CA
POC Virginia Caldwell Ext. 2511

February 21

Rear Adm. Michael J. Lyden
Commander, Naval Supply System
To attend Supply Corps Ball
POC Cmdr. Wagner Ext. 3419

February 23-27

Solid Curtain Citadel Shield 09
Force Protection Exercise
POC Pete Dausen Ext. 3037

February 25-27

NATO Conference on Building Integrity
DRMI
Monterey Conference Center
POC Dr. Francois Melese Ext. 2009

HISTORICAL HIGHLIGHTS

Cmdr. Howard W. Gilmore, a 1934 NPS ordnance engineering alumnus, was posthumously awarded the Medal of Honor in 1943. As commanding officer of the USS Growler (SS-215), Gilmore's last order to the crew, "Take her down," became a wartime rallying call for the nation's submarine service.

The Dictionary of American Naval Fighting Ships states that Gilmore's "inspiring words and courageous sacrifice have taken their place among the great traditions of the U.S. Navy." The submarine tender USS Howard W. Gilmore (AS-16) was commissioned in his honor in May 1944.

Historical Highlights are provided by the Dudley Knox Library.