2017-07

Systems Engineering Newsletter / July 2017

Giachetti, Ronald E.

Naval Postgraduate School

Keep up with what 's new - Systems Engineering at the Naval Postgraduate School

SE NEWSLETTER HIGHLIGHTS

- Letter from the Chairman
- SE Student/Faculty Research Efforts
- Winter (AY17) Graduation Highlights and Awards
- Spring (AY17) Graduation Highlights and Awards
- New Faculty Member in the SE Department
- Faculty Awards

Visit our website

Letter from the Chairman

Student “Reach-Back” to NPS

A Systems Engineering alumnus recently contacted Senior Lecturer Mark Rhoades about cybersecurity and risk analysis. Rhoades is our resident expert on risk analysis, especially with respect to Navy systems. He spoke with the former student, discussed the issues with him, and followed up by email with some pointers to additional information. I mention this incident because it highlights the value NPS provides to the Navy and the Department of Defense. It is not

Dr. Ronald E. Giachetti
Chair, Systems Engineering
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unusual for NPS to hear back from students. In fact, we often get capstone project ideas or research projects from former students after they return to the fleet. Professor Karen Holness has been working on project with two students for submarine maintenance in Pearl Harbor because an alumni of the SE program came to us asking for support. Doing projects and staying in contact with alumni helps us keep our education relevant to the Navy, helps us stay abreast of the issues facing the fleet, and provides excellent research experiences for our current students.

This newsletter contains a sampling of what's going on at NPS with our faculty, students, programs, and research. Additionally, we like to mention the latest accomplishments of our alumni such as LCDR Matthew Dominick who was selected for the newest astronaut class. Please send us any such news you want to share with the SE community.

News Items

LT Kristjan "KJ" Casola briefed his thesis to a workshop sponsored by DARPA on the ACTUV (pronounced "active"). The ACTUV is a 132 foot long autonomous surface ship displacing roughly 145 tons when fully burdened. The DARPA ACTUV program has delivered a test vessel, christened SEA HUNTER, to the SPAWAR facility in San Diego in March 2017. While DARPA has funded the development of the autonomous ship, they have come to NPS for ideas on how the ACTUV can be put to use by the Navy. LT Casola is investigating whether the ACTUV can improve the performance of a surface fleet in anti-surface warfare. His thesis research will determine what capabilities the ACTUV has that can improve ASUW operations, and also how the ACTUV can interoperate with other Navy ships and systems. To answer these questions he developed a simulation model of the ACTUV in a ASUW scenario. His research was briefed at the third ACTUV Workshop on 14-15 February, 2017. These workshops are intended to help DARPA and the Navy identify the research and operational challenges to deploying larger scale unmanned surface ships in the fleet.

Dr. Oleg Yakimenko, Dr. Mathias Kolsch, and Dr. Ryan Decker (of Picattiny Arsenal)

Granted a patent from the U.S. Patent and Trademark Office for a method and apparatus for computer vision analysis of cannon-launched artillery. The system records projectile launch from two video cameras having different orthographic views of the line-of-fire in order to determine pitching and yawing history of the projectile in three dimensions. The patent is available as USPN 9,563,964. Dr. Ryan Decker was a PhD student at NPS and is now at Picattiny Arsenal. He and Dr. Oleg Yakimenko share another patent for a mortar projectile to resupply payloads to distant troops (patent # 9,500,454).

RESEARCH

SE Alumni Selected for Astronaut Class

Lt. Cmdr. Matthew Dominick a graduate of the Systems Engineering program was selected for NASA's latest class of astronaut candidates. He was in the Naval Postgraduate School / U.S. Naval Test Pilot School Co-Operative Program, where he earned a Master of Science in Systems Engineering from the Naval Postgraduate School and graduated from the U.S. Naval Test Pilot School.

Dominick, a native of Wheat Ridge, Colo., was serving as a department head with Strike Fighter Squadron 115 aboard the USS Ronald Reagan at the time of his selection. He has accumulated more than 1,600 flight hours in 28 different aircraft models, as well as 61 combat missions and nearly 200 flight test carrier landings.

“For these individuals to be selected from a group of almost 18,000 highly-qualified applicants is just tremendous,” said Dr. James Newman, Chair of the NPS Space Systems Academic Group, and a former NASA astronaut himself. “All the things they have learned here at NPS really helps to give them an edge, and this is a great opportunity to leverage the things that we are teaching here.”

He will report for duty in August 2017 for two years of training as an astronaut candidate at Lyndon B. Johnson Space Center in Houston, Texas. Upon completion, he will be assigned technical duties while awaiting a flight assignment.

At the graduate level, no other institution on the world can claim more NASA astronaut alumni than NPS, with more than 40 graduates reaching the stars.

SE Participation in December 2016 RobotX Competition

These days Association for Unmanned Vehicle Systems International (AUVSI), American Institute of Aeronautics and Astronautics and other robotics-related societies are organizing and sponsoring a variety of competitions / challenges, primarily for the aerial vehicles, but also for the vehicles in other domains as well. In 2012, the U.S. Office of the Naval Research (ONR) launched the biennial Maritime RobotX Challenge (RobotX) focused on autonomous surface vehicle (ASV) platforms and sensors. This high-level competition is a capstone robotics competition, which builds upon the successful implementation of other student robotics competitions such as RoboBoat and RoboSub, and aims at engaging regional partners around the Pacific Rim. This Challenge became a part of RoboNation (created by the AUVSI Foundation), a robotics community built to represent the force behind the next generation of builders, creators and engineers.

To date, two RobotX competitions took place involving many universities from five different countries. To be more specific, the first competition was held in October 2014 in Singapore and the second – in December of 2016 in Oahu, Hawaii.

The Seoul National University craft at Marina Bay, Singapore at the 2014 RobotX Competition.

Aerial view of the semi-finals and finals area for the 2016 RobotX Competition in Oahu, Hawaii.

In 2014 there were 15 teams competing: three teams from Australia (Flinders University, Queensland University of Technology, and the University of Newcastle), three teams from South Korea (KAIST, Seoul National University, and University of Ulsan), three teams from Japan (Osaka University, the University of Tokyo, and Tokyo Institute of Technology), three teams from Singapore (Nanyang Technical University (NTU), National University of Singapore (NUS), and Singapore University of Technology & Design), and three teams from the U.S. (Embry-Riddle Aeronautical University, Florida Atlantic University/Villanova University, and in Olin College/MIT).

In 2016 13 teams competing were the same three teams from Australian universities, two teams from Singapore (NTU and NUS), one team from South Korea (Seoul National University), one team from Japan (Osaka University), and six teams from the U.S. (Embry-Riddle Aeronautical University, Florida Atlantic University/Villanova University, Georgia Institute of Technology, University of Florida, University of Hawai'i, and University of Louisiana at Lafayette).

All teams were provided with the wave adaptive modular vessel-type (WAM-V) watercraft by Marine Advanced Research, Inc. featuring the length of 4.85m, beam of 2.44m, height of 1.27m, net weight (without payload) of 154kg, and maximum additional load of 220kg. Each team was responsible for choosing their own electric propulsion system, including waterjets, integrated trolling motors, external trolling motors, and building onboard avionics suite to guide, navigate and control their ASVs.

While many of the past RoboBoat and RoboSub challenges have been executed serially or independently, the RobotX tries to address the development and integration of higher-level autonomy. With higher-level autonomy, these systems should be able to accurately identify and classify objects, adapt to a dynamic environment, make smart decisions, and require the ability to prioritize tasking based on mission time and vehicle health to accomplish the overall mission. Figure below shows a typical challenge course layout designed to support demonstration of the aforementioned autonomous capabilities.

While many of the past RoboBoat and RoboSub challenges have been executed serially or independently, the RobotX tries to address the development and integration of higher-level autonomy. With higher-level autonomy, these systems should be able to accurately identify and classify objects, adapt to a dynamic environment, make smart decisions, and require the ability to prioritize tasking based on mission time and vehicle health to accomplish the overall mission. Figure below shows a typical challenge course layout designed to support demonstration of the aforementioned autonomous capabilities.

Specifically, the competition tasks involved

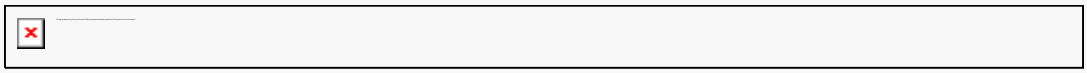
- demonstrating navigation and control capability (detection of the channel markers and positive control)
- finding totems and avoiding obstacles (the ASV must avoid the obstacle buoys while circumnavigating the totems in the correct order and direction, defined by the totem color)
- locating and identifying the docking bays, and proceed into the correct bays in the correct order
- scanning a light sequence on an red-green-blue buoy and reporting the color pattern identifying the sequence of other tasks
- demonstrating underwater sensing capability
- locating objects on the seafloor given an assigned quadrant and defining their shapes
- finding the break in the color path markers placed on or near the seafloor
- markers scanning and segment count capabilities to find a “gap” indicated by underwater markers and count the number of other-shape segments between them
- detecting a four-sided floating platform and delivering (inserting) balls through the target holes (of a different size) on its face
- detecting and decoding the signal from underwater acoustic pingers, which determined the following course of actions

Examples of EO sensor and sonar data processing.

The 2016 challenge allowed constructing a System of Systems (SoS) consisting of craft operating in multiple domains – the teams were allowed to used underwater vehicle to sense and act underwater along with the WAM-V surface vessel. In the future, SoS design could also include using aerial vehicles, but in 2016 because of the closeness of the Honolulu International airport (competition took place at Sand Island State Park, just half a mile away from the end of a runway) it was not allowed.
In both cases, in 2014 and 2016, the organizers invited volunteers to be the on-site technical judges, and it was extremely interesting to observe the teams progressing through the Practice and Qualifying stage allowing earning points against the individual tasks, and later on participating in Semi-final and Final Rounds (for those teams that successfully completed five of the seven system performance tasks) where the entire sequence of individual tasks had to be executed all together, one after another in the order defined on the go. It was also interesting to see how adverse weather (on the day of the Finals in Hawaii) drastically affected ASV performance.

Participating in these challenges involves a hard work of many students for two years and a great support from the school, which is not feasible at NPS. However, NPS has a very good relationship with four teams (two in Australia, one on Singapore and one in the U.S.) and is invited to participate in 2018 RobotX Challenge jointly (contributing primarily on the algorithmic side).

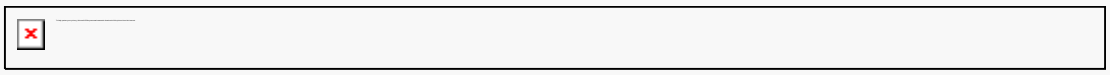
Article contribution by Prof. Oleg Yakimenko



The winning 2016 design by University of Florida

Third Series of Rocket Launches for SE Students Led by Prof. Yakimenko

The SE3202-SE3203 sequence offered to the SE resident students in Spring-Summer deals with design, prototyping and testing the Aerial Forward-deployed Intelligence, Surveillance, and Reconnaissance (ISR) System to be delivered to the site of interest by the Sidewinder-type missile.



Intern Paul Burdett, LCDR Kyle Kobold, LT Justin Davis, LCDR Stephan Brock, Maj. Matthew Einhorn, LT Alexander Samaniego, KT Geoffrey Fastabend, LT Devon Cartwright, LCDR Alexander Williams, and Rushen Dal with their SE3202 designs before launches.

Towards this goal in the SE3202 class students were offered to gain knowledge and skills in building relatively simple one-stage solid-motor armature rockets individually, to be followed by the SE3203 class where students will work in three groups and develop alternative ISR systems to be deployed at the apogee by more powerful 7.5inch-diameter rockets.The SE3202 class launches took place on June 3rd at the Friends of Armature Rocketry test site in Mohave Desert and the SE3203 launches are scheduled to occur in late August.

USA Maj Matthew Einhorn observes the launch of his Intruder rocket with J350M motor, which brought the rocket to 4,364 ft (1,330 m) AGL (2% off the predicted value).

USN LT Devon Cartwright with his Black Brant X rocket design featuring the K695R-L motor, propelled the rocket to 5,634 ft (1,717 m) AGL (only 1% off the design value!).

NPS Holds First-Ever Swarm vs Swarm UAV Competition

NPS, DARPA and the Georgia Tech Research Institute partnered to hold the first-ever swarm vs. swarm UAV competition at Camp Roberts in southern Monterey County. The competition featured several current and past members of the SE department. Dr. Timothy Chung, DARPA program manager and a former SE faculty member led the swarm challenge between the three U.S. military academies -- the U.S. Military Academy, the U.S. Naval Academy, and the U.S. Air Force Academy. The exercise involves each academy fielding a Swarm of up to 25 aircraft in a variation on the Capture the Flag game. The three-day experiment concluded with an exciting aerial battle in which the Naval Academy took home the win, a trophy, and bragging rights over its rival academies.

AY 17 Winter Quarter Graduation

Photo by Javier Chagoya, Article by MC2 Victoria Ochoa

Internationally-renowned military historian Sir Hew Stratchan offered the commencement address during the Naval Postgraduate School's (NPS) Winter Quarter Commencement Ceremony in King Auditorium, March 31. The university said farewell to 278 graduates, including 11 international students from nine nations, earning 282 advanced degrees during the ceremony.

Please click here for the full article.

Master of Science in Engineering Systems
LCDR. Otto M. Piedmont, II, USN
LT. Philip M. Wicker, USN
Mr. Anthony M. Armentrout
Mr. Paul A. Armstrong
Mrs. Leah M. Haas
Mr. Thomas P. Kowalski
Mr. Matthew A. Schmid

Master of Science in Systems Engineering
CPT. Sangbum Kim, Republic of Korea Army
CDR. Jerick C. Black, USN
LCDR Justin M. Letwinsky, USN
LCDR Allison L. Moon, USN
LCDR Andrés Otero, USN
LT. Blake J. Shaffer, USN
Ms. Alexis Alexandris
Mr. Kahsay O. Araya
Mr. Darnel J. Balais
Mr. Christopher P. Behre Jr
Mr. Stephan F. Brown
Mr. Nicholas R. Child
Ms. Amber M. Cook
Mr. David M. Cudd
Ms. Sadie Hoeschen
Mr. Sean Holden

Ms. Kelly Kiang
Mr. Wayne E. Kuntz
Mr. Sean S. Lee
Mr. Christopher J. Lujan
Mrs. Joan Marie Melendez-Misner
Mr. Sean T. Misner
Mr. David E. Muse
Mr. Tu Van Ngo
Mr. Wilfredo Padilla-Vargas
Mr. John J. Robideau
Mr. David M. Rodriguez
Mr. David A. Rowney
Mr. Eric B. Schroeder
Mr. Rozier L. Steinbach
Mr. Michael A. Stopper
Mr. Harris Tanveer
Mrs. Jeanelle Ruth T. Tortorice
Ms. Erika Urena
Mr. Joseph E. Walker

Winter Graduation Awards

Meyer Award Winners

The Meyer Award for Outstanding Student in Systems Engineering (Distance Learning) is presented to an outstanding Department of Defense graduate of each Distance Learning Systems Engineering degree program who has demonstrated superior academic performance. This quarter, the award was presented to Mr. Harris Tanveer and Mr. Nicholas Child.

Prof. Ron Giachetti and Mr. Nicholas Child

Employees graduate from rigorous systems engineering and systems integration programs at Naval Postgraduate School

The newest graduates of the Naval Postgraduate School (NPS) proudly display their Master of Science diplomas and Lead Systems Integrator (LSI) certificates after an April ceremony at Naval Air Warfare Center Aircraft Division (NAWCAD) headquarters, Naval Air Station Patuxent River, Md. The program, a partnership of the Naval Air Systems Command (NAVAIR) and NPS, provides an educational avenue for military officers and civilians wishing to gain expertise in systems engineering and integration. (U.S. Navy photo)

NAVAL AIR WARFARE CENTER AIRCRAFT DIVISION, PATUXENT RIVER, Maryland — Twenty-three Naval Air Warfare Center Aircraft Division (NAWCAD) and Naval Air Systems Command (NAVAIR) employees received their Master of Science degrees in systems engineering (MSSE) or engineering systems (MSES) and 13 earned their Lead Systems Integrator (LSI) certificates from the Naval Postgraduate School (NPS) at a graduation ceremony here Apr. 13.

Graduate Joan Melendez, fuel systems propulsion and power engineer, Propulsion and Power Engineering department, currently on rotation in Jacksonville, Florida, praised the program for its applicability to her work.

"The curriculum covered the gamut of systems engineering, and the instructors covered topics applicable to programs at NAVAIR," she explained. "This program taught me various methods to approach problems from different angles, and I have even been able to apply these approaches to my daily tasking. This experience provided a holistic background of the roles and responsibilities that are required to become a systems engineer and reinforced my aspirations to become one."

The NPS distance-learning program is a partnership between NAVAIR and NPS in which students complete a rigorous, fast-paced curriculum while continuing to work full-time. In addition to 16 courses, master's degree candidates complete a capstone project designed to resolve actual engineering problems confronting NAWCAD or NAVAIR. To date, there have been a total of 361 graduates of the MSSE program.

The Lead Systems Integrator (LSI) certificate is a four course, one-year program that prepares students to assume positions as LSIs and focuses on design and trade-off analyses of systems-of-systems (SoS) architectures, execution of SoS acquisitions, and engineering implications to the role of the LSI in contract management.

Rear Adm. Shane Gahagan, commander, NAWCAD and assistant commander for research and engineering, NAVAIR, served as the keynote speaker for the event. Recognizing that the graduates were not alone in pursuit of their degrees, he thanked their family members, mentors, supervisors and coworkers: "You believed in them, encouraged them, and made all of the adjustments necessary to continue the mission while they pushed themselves to both do their jobs and to complete this challenging course of study."

Rear Adm. Gahagan then thanked the graduates for furthering their education to become "better problem-solvers for our men and women in uniform. Our contribution to their mission of deterring and defeating aggression is to provide safe, effective equipment and that means we are required to be innovators. You are part of a proud tradition, a proud organization and a great team. We believe in you and we need you. I can't wait to see what great things you will do now in service to our country."

During the ceremony, the Wayne E. Meyer Awards for students and faculty members who displayed technical expertise and leadership were announced. Harris Tanveer earned the student award, and faculty members Ronald R. Carlson and Cmdr. Peter W. Ward were honored for their teaching excellence.

NPS began as a school of marine engineering at Annapolis in 1909 and moved to its current campus in Monterey, California, in 1951. NAVAIR teamed with NPS to create the MSSE and MSES program in 2008,

To learn more about the program and how to apply, contact the NPS office at Patuxent River at 301-757-0517.

Spring 2017 MSSE and MSES graduates: Alexis Alexandris, Kahsay Araya, Paul Armstrong, Cmdr. Jerick C. Black, Amber M. Cook, David M. Cudd, Leah Montoya Haas, Sadie Hoeschen, Sean Holden, Kelly Kiang, Thomas Kowalski, Lt. Cmdr. Justin Letwinsky, Joan Misner, Sean Misner, Lt. Cmdr. Allison Moon, David Muse, Lt. Cmdr. Otto Piedmont II, David M. Rodriquez, Lt. Blake Shaffer, Bob Steinbach, Harris Tanveer, Jeanelle Tortorice and Joseph Walker.

Spring 2017 Lead Systems Integrator Certificate recipients: Cynthia Davis, Kevin Dusch, Erik Eldridge, Gregory Gibbs, David Kaniss, Candida Olney, Peter Stauffer, Thomas Stubbs, Emily Stump, Dorian Tavarez, Ronald Walden, Kent Yen and Peter Youssef.

Link to article

NAWCAD Public Affairs
301-757-5136

AY 17 Spring Quarter Graduation

Photo by NPS PAO Office

Vice Adm. Frank C. Pandolfe, Assistant to the Chairman of the Joint Chiefs of Staff, served as commencement speaker for the 2017 Spring Quarter Graduation Ceremony, June 16, 2017.

-

Master of Science in Systems Engineering Analysis
LT. Benjamin J. Arnett, USN
LT. William H. Ehlies, USN
LT Kevin J. Weeks, USN

VADM Pandolfe and CDR. Christopher Hall

Master of Science in Systems Engineering
CPT. Sean R. Christopherson, USA
MAJ. Jonathan M. Swan, USA
LT. Matthew T. Alvarez, USN
LT. Ryan G. Beall, USN
LT. KJ Casola, USN
LCDR. Daniel J. DeCicco, USN
LT. Akwasi Fosu, USN
CDR. Christopher Hall, USN
LT. Michael J. Hook, USN
LT. Patrick W. McCarthy, USN
ENS. Tyler B. McCarthy, USN
LT. Austin N. Thompson, USN
LT. Marcus A. Torres, USN
LT. Seng F. Yee, USN
Capt. Mohamed Alobaidli, Royal Bahraini Air Force
Lt. Michael W. Enloe, USN
LCDR. Patrick M. McKenna, USN
Mr. Mark A. Chess
Mr. Adam G. Christiansen
Mr. Daniel Cobb
Mr. Logan A. Corbett
Mr. Michael D. Floyd
Mr. Joseph M. Green
Mr. Ben Hapipat
Mr. William L. Jankowski
Mr. David Jerome, Sr.
Mr. Gerald T. Kummer
Mrs. Keren Kummer
Mr. Omololu Olofintuyi
Mr. Christopher L. Porter
Mr. Mark R. Rusak
Mr. Charles R. Sistare
Mrs. Sarah Smith

VADM Pandolfe and LT. Akwasi Fosu

Mr. Jesse Sumner
Ms. Jessica L. Vaughn
Mr. Arthur S. Watson
Mr. Timothy J. Wright

Master of Science in Engineering Systems
Mr. Brandon E. Payne

Spring Graduation Awards

Meyer Award Winners

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Department News

CDR Brian Connett and Professor Bryan O'Halloran published an article titled, "Modeling cyber conflict to inform critical infrastructure defense" in the ASME Magazine Dynamic Systems & Control.

CDR Brian Connett is a PhD student in the Systems Engineering department. CDR Connett's research is examining concepts of cyber-physical systems and the complexity of decision making regarding its security. His education includes a M.S. in Systems Engineering and a M.S. is Space Operations both from the U.S. Naval Postgraduate School. The article discusses the possible vulnerabilities to cyber-physical systems and presents an architecture framework identifying attributes to protect the system.

Full citation is: B. Connett and B. O'Halloran, Modeling cyber conflict to inform critical infrastructure defense, Dynamic Systems & Control, March 2017, vol. 5, no. 1, pp. 7-10.

At the NDIA 2017 Spring Conference Joint Undersea Warfare Technology the following presentation: NPS 2017 & 2018 Mine Warfare and USW Projects presented by Richard Williams III RADM (ret), Expeditionary & Mine Warfare Adviser, Naval Postgraduate School was done based on the capstone projects of a 311 cohort. The two capstones are:

"Applying Model-Based Systems Engineering (MBSE) and Architecting to Address Future Mine Countermeasures (MCM) Force Capabilities" – project will be conducted April – December 2017

"Investigation of Requirements and Capabilities of Next Generation Mine Warfare UUV's" – project will be conducted April – December 2017

Please contact Greg Miller for further details.

Faculty News

Newest SE Faculty Member

Dr. Anthony Pollman is currently an Assistant Professor in the Systems Engineering department at the Naval Postgraduate School. He holds a Bachelor and Master of Science degrees in Nuclear Engineering from Purdue University, and a Doctorate of Philosophy in Mechanical Engineering from the University of Maryland. He also holds an Executive Masters of Business Administration from Naval Postgraduate School. His current research interests include combat systems, energy systems, less-than-lethal weapons, and unmanned systems. He is a member of the American Society of Mechanical Engineers, the American Nuclear Society, the International Council on Systems Engineering, the American Society for Engineering Education, Order of the Engineer, Engineers Without Borders, and the Marine Corps Association. He retired from the Marine Corps in 2015, and is a veteran of the Iraq and Afghanistan Wars.

ICEAA 2017 Association Service Award

SE Lecturer, Tim Anderson was presented with the 2017 Association Service Award at the International Cost Estimating & Analysis Association Conference. This award recognizes individuals (or a team) who have shown continuing dedication to the interests of ICEAA and who have made significant and sustained volunteer contributions to the ICEAA organization for a period of years. Contributions should be of a highly significant nature and contribute positively to the advancement of ICEAA and/or an ICEAA Chapter. The International Cost Estimating and Analysis Association is a nonprofit organization that strives to promote and to enhance the profession of cost estimating and analysis with the primary goal of fostering the professional growth of our members in cost estimating, cost analysis, and allied fields.

Mr. Tim Anderson receiving the award from Mr. Paul Marston, President of the iCEAA

CSER Award for Best Transition in Systems Engineering

Dr. Kristin Giammarco receiving the award for Best Transition in Systems Engineering Research from Dr. Robert Pitsko, Chief Scientist, Systems Engineering Technical Center, MITRE. This award seeks to recognize the best transition of systems engineering research into application. The award was presented to Dr. Kristin Giammarco and CDR. Kathleen Giles for their paper, "Verification and Validation of Behavior Models using Lightweight Formal Methods."

Upcoming Conferences & Call for Papers

INCOSE IS 2017 - Adelaide, Australia, Date: Jul 17, 2017 - Jul 20, 2017

2017 IEEE International Conference on Systems, Man and Cybernetics (SMC) Banff, Canada, Oct 1 – Oct 4, 2017 (Abstract submission deadline: 01 Apr 2017

FACULTY AWARDS

Brigitte Kwinn

Prof. Ron Giachetti and Ron Carlson

Lecturer Brigitte Kwinn and Professor of Practice Ronald Carlson were both recognized as being in the top 5% of the **Rear Admiral John Jay Schieffelin Award for Excellence in Teaching**. The award is made annually to recognize permanent faculty members who, through wide consensus, excel as teachers.

The phrase, “excellence in teaching,” refers to that complex of personal and professional qualities and actions on the part of the teacher which make themselves felt primarily at the interface of personal contact between student and teacher; help transmute the student's encounters with the subject matter into insight, enlightenment, and love of learning; elicit from the student responses in thought, feeling, and action which enhance his/her capacity for self education, and manifest themselves in an effective individual style which authentically reflects the teacher's own unique personality, experience, character, and convictions.

A committee appointed by the Provost conducts a ballot polling of students and graduates to determine the recipient of the award. The award is very competitive across all of NPS, and the recognition of being in the top 5% is quite an achievement. Here’s wishing them success in next year’s cycle.

Cliff Whitcomb

SE Professor, Cliff Whitcomb was presented the Meyer Award for Teaching Excellence in Systems Engineering (Distance Learning) for the AY17 Spring Quarter. The award is presented to an outstanding faculty member of each Distance Learning Systems

Engineering degree program who is recognized by the students for teaching excellence and/or exceptional contributions to the student's overall learning experience.

Greg Miller

SE Lecturer, Greg Miller was presented the Meyer Award for Teaching Excellence in Systems Engineering (Distance Learning) for the AY17 Fall Quarter. The award is presented to an outstanding faculty member of each Distance Learning Systems Engineering degree program who is recognized by the students for teaching excellence and/or exceptional contributions to the student's overall learning experience.

Request for Alumni News!

The SE Department is interesting in hearing how our alumni are doing. Please feel free to send the editor news items for inclusion in future newsletters.

Please visit our NPS SE Website!

If you would like to continue receiving the SE Newsletters once your NPS email address expires, please contact the editor with a forwarding email address.

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This newsletter is a quarterly publication of the Department of Systems Engineering, NPS. Its contents do not necessarily reflect the official views of the U.S. government, the Department of Defense or the U.S. Navy, nor does it imply endorsement thereof. Information may be subject to change without notice.

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