**US Coast Guard Academy Honors Program**

**NEWSLETTER – FALL 2017**

Dr. Alina M. Zapalska, Director, Honors Program

**CONGRATULATIONS ON COMPLETING THE 2018-2019 FULBRIGHT APPLICATION CYCLE!**

**THE 2018-2019 FULBRIGHT APPLICANTS - FALL 2017**

**Ensignment Laura Beck** (Naval Architecture and Marine Engineering major, Class 2017) is currently an Apprentice Marine Inspector at Sector New Orleans. She is applying for a 2018-2019 Fulbright Award to pursue a two-year International Master of Science degree in Marine Technology with a specialization in Marine Engineering at the Norwegian University of Science and Technology (NTNU) in Trondheim, Norway. Her proposed research project is to develop a hybrid propulsion solution that will increase fuel efficiency and reduce emissions in ships. She plans to design a hybrid of a diesel engine and a high-capacity battery system charged by renewable energy sources, such as wind or solar. This alternative will reduce emissions in ships that operate especially in coastal areas. ENS Beck will conduct her research at the Marine Technology Center at the NTNU. If granted a Fulbright scholarship, ENS Beck plans to volunteer with the Self Help for Immigrants and Refugees organization to help those who are seeking better lives in Norway. Studying and contributing to local community organizations in Trondheim, Norway would also allow her to engage with the LGBT community and reflect on how she can promote LGBT inclusion and celebration of this community in the workplace.

**1/C Erin Wright** (Mechanical Engineering major, Class 2018) is applying for a 2018-2019 Fulbright scholarship to pursue a Master of Philosophy degree in Energy Engineering at Newcastle University, Newcastle, UK. Her proposed research project will analyze the biofuel combustion process in diesel engines and explore the effects of nanoparticle additives to biodiesel as a method for decreasing emission levels and increasing engine efficiency. 1/c Wright’s research on reducing the fuel and the pollutants from the combustion process in diesel engines is applicable to the maritime industry and the U.S. Coast Guard. If granted a Fulbright scholarship, 1/c Wright will conduct her research at the Sir Joseph Swan Centre for Energy Research at Newcastle University during 2018-2019 academic year. In her free time, she wants to join Engineers Without Borders as a volunteer to teach young students the foundations of sustainable engineering. She also plans to volunteer as a coach at the Sailing and Yachting Club at Newcastle University.

**THE 2017-2018 USCGA FULBRIGHT SCHOLARS – FALL 2017**

**2017-2018 Fulbright Netherlands: Ensign Patrick Ledzian** (Electrical Engineering major, Class of 2017)

ENS Ledzian has begun his 2017-2018 Fulbright U.S. Student Program grant to pursue a two-year Master of Science degree in Systems and Control at the Technical University of Delft (TU Delft) in Delft, Netherlands. Ledzian is also a recipient of a Justus en Louise van Effen Excellence Scholarship 2017-2019 from Delft University of Technology, Delft, Netherlands which complements his Fulbright scholarship. His Fulbright research project is to develop a fault-tolerant and predictive flight control system that will be able to react to events that unexpectedly obstruct or destruct vehicle flight, to respond quickly to prevent damage or destruction, and to reprogram its operation in order to complete a designated task. The project will be conducted collaboratively with the scholars from the Robotics Institute at TU Delft. ENS Ledzian plans to engage with the community by teaching chess and competing with international players, as well as becoming an active member in both the student rocketry club DARE, and the TU Delft Honors program.

**2017-2018 Fulbright Iceland: Ensign Chris DiBari, Class of 2016** (Government Major, Class 2016)

After graduation ENS DiBari was assigned to the USCGC HEALY (WAGB 20) as a Deck Watch Officer. ENS DiBari has reported to Iceland as a Fulbright scholar to pursue a Master of Arts degree in Environment and Natural Resources with a concentration in Natural Resource Management at the University of Iceland. ENS DiBari’s study is on Arctic fisheries management strategies and policies. His research thesis focuses on examining current management strategies that apply to mackerel stock in the North-East Atlantic (NEA). The goal is to propose a fisheries management plan for the NEA coastal states in order to promote sustainable fisheries management practices through international cooperation between Iceland and the NEA coastal states. As a student at the University of Iceland, ENS DiBari hopes to be involved in the student council; the University Student Theater; and join the community rugby team, the Reykjavik Raiders.
Ensign Jacquelyn Kubicko (Class of 2016 - Marine and Environmental Science) is a 2016-2017 UK Fulbright scholar. She is currently finishing her study for a Master's of Research degree in Ocean Science at University of Southampton (UoS), Southampton, UK. ENS Kubicko’s research at UoS investigates using ship noise in a deep-water environment to measure variability in the ocean thermal structure, an important parameter in physical oceanography and climate science, and is consistent with the Coast Guard’s climate change initiatives. Her Master's thesis is entitled *Feasibility of Deep-Water Environmental Inversion Using Ships as Acoustic Sources of Opportunity*, and her graduation day is scheduled on 14 December, 2017. She will be reporting to the CG Sector National Capital Region (NCR) Maryland: Response Department in October 2017.

Ensign Jacquelyn Kubicko

Lieutenant Junior Grade Stephen Horvath. (Class of 2015 – Mechanical Engineering) LTJG Stephen Horvath officially graduated on August 25, 2017 with a Master’s degree in *Bioenergy Technology* and two minors; one in Separation Technology and the other in Sustainable Technology and Business. During his last year at Lappeenranta University of Technology in Lappeenranta, Finland, he worked on evaluating various fuel options that can be utilized for ship propulsion to create a carbon neutral shipping industry. His research resulted in an academic style article entitled “Techno-Economic Analysis of a Decarbonized Shipping Sector: Technology Suggestions for a Fleet in 2030 and 2040.” He is currently stationed on CGC Healy as the Auxiliary Division officer. He works with eight other members in this division to maintain the auxiliary equipment onboard which includes systems for fresh water production, HVAC, small boats, hydraulics, steam, hotel services, and various pumps throughout the ship. In addition, he has been designated as the Fueling Officer as well as the Training Officer. This past week, he qualified as Engineer of the Watch onboard CGC Healy.

American Service Academies Program Internship is a three-week Holocaust educational initiative that was created by the Auschwitz Jewish Center specifically for a select group of cadets and midshipmen from the four U.S. military academies. The 2017 ASAP Fellows are 2/c Lukas Psoinas and 1/c Dakota Richter.

**SUMMER 2018 - ASAP Internship - online application deadline October 31, 2017**

https://mjhnc.wufoo.com/forms/american-service-academies-program-2018/

The Saratoga Fellows Program provides a post-undergraduate educational and professional experience for officers in the Armed Forces of the United States. The program is designed to broaden each fellow’s understanding of our country’s intellectual and moral traditions. That understanding addresses the ability to engage in public discourse and thus it strengthens an officer’s calling to public service. The 2017 Saratoga Fellows are ENS Abigail Culp and ENS Keith Holmes.

**SUMMER 2018 – SARATOGA Fellowship (June 2, 2018 - July 14, 2018) - online application deadline January 30, 2018**

https://www.johnjayfellows.com/saratoga-start-your-application

Any cadet interested in applying for the 2018 American Service Academies Program Internship and the 2018 Saratoga Program Fellowship must contact Dr. Zapalska at Alina.M.Zapalska@uscga.edu.

The Alpha Lambda Delta National Honor Society for First Year Students

**Initiation Ceremony for the Class of 2020 – 24 October 2017**

Students must have obtained a 3.5 GPA or better and be in the top 20% of their class during their fourth-class year to be named for membership.

3/c Cadets of Class 2020 who will be inducted into the CGA ALD:

- Kathryn Ashby
- Anna Beck
- Alden Becker
- Jeremy Benson
- Evan Boisse
- Kirsten Cannon
- Amy Chamberlin
- Francesca Farlow
- Tobias Farrell
- Nicholas Fujimoto
- Gregory Gaskell
- Owen Gibson
- Sean Graytok
- Marissa Hanson
- Austin Haynia
- Valerie Hines
- Michael Hovick
- Vanessa Huber
- Thomas Jordon
- Daniel Junghans
- Owen Kratowicz
- Yuchen Li
- Mico Andre Manalang
- Bryan McClintic
- Brennen McCulloch
- Miyako Miller
- Rachel Morello
- Nicholas Moreno
- William Mulvey
- Joshua Murdy
- Miguel Moroles
- Alice Nguyen
- Jacob Fanning
- Christine Perez
- Naisa Pierre
- John Pompey
- Hollis Roush
- Wesley Russell
- Sean Salmen
- Ashley Sandquist
- Andrew Segalla
- Hunter Shortley
- Jacob Skimmons
- Aloric Stone
- Jillian Stuckey
- Olivia Suski
- Elaine Weaver
- Mark Wicke
- Arthur Wicke
- James Zittel

The 2017 ALD Keynote Speaker: LT Melissa K. McCafferty (Class of 2011, 2010 Truman Scholar)