

# 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

**Ensign 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. 

## THE 2016-2017 FULBRIGHT SCHOLARS

**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. 

**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. 

## The Academy's Honors Program Internships and Fellowships

**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://mjhnyw.ufoo.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@uscg.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 Ashbey  
Anna Beck  
Aidan Becker  
Jeremy Berson  
Evan Boisse  
Kirsten Carson  
Amy Chamberlin  
Francesca Farlow  
Tobias Ferl  
Nicholas Fujimoto  
Gregory Gaskel  
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 Morales  
Alice Nguyen  
Jacob Panning  
Christine Perez

Naissa Pierre  
John Pompay  
Hollis Roush  
Wesley Russell  
Sean Salmon  
Ashley Sandquist  
Andrew Segalla  
Hunter Shortly  
Jacob Skimmons  
Alaric Stone  
Jillian Stuckey  
Olivia Suski  
Elaine Weaver  
Mark Wicke  
Arthur Wicke  
James Zittel

