



UNITED STATES COAST GUARD ACADEMY

Science Lecture Series

Career Advice from an Old Engineer with Experience in Aerospace and the Biomedical World

Ron, Adrezin, Ph.D., P.E.

Professor, Department of Mechanical Engineering, USCGA

Confident about your career path? Overwhelmed about your future? Planning a career in academia or medicine? This old guy spent years in (or consulting with) industry and will share some of the main career tips he learned. He will pitch the importance of having a plan and then to continuously shift to better ones. He will share tips for applying to graduate school and networking for opportunities post Coast Guard.

Thursday, October 9th, 2025

2000 -2100

Dimick Auditorium, U.S. Coast Guard Academy

Ron Adrezin, PhD, PE is Professor and Chair of Mechanical Engineering at the U.S. Coast Guard Academy. He has been a licensed professional engineer for over thirty years and worked primarily in the aerospace and biomedical engineering fields. He has utilized the capabilities of additive manufacturing for over two decades, originally applying it to space suit and helicopter- centered projects. His work also includes support of people with rare disorders at the Nationals of Health and premature infants at the Connecticut Children's Medical Center. At the Academy, he teaches analysis and design courses. Professor Adrezin participated in Arctic West Summer 2015 on USCGC HEALY, a medium-duty icebreaker. He led a successful trial to use additive manufacturing to replace critical components at sea, with details published in the Naval Engineers Journal. During the summer of 2018, he deployed on USCGC Forward to conduct his corrosion research. This included advanced coatings and the corrosion of buoys. He has been awarded 10 patents including two based on his work utilizing shape memory alloys and additive manufacturing in the development of small mechanisms. He earned his B.E. and M.E. at The Cooper Union, and his Ph.D. at Rutgers University. All are in mechanical engineering.

**If you have any questions regarding the event, please contact Dr. Kanani K. M. Lee
(kanani.km.lee@uscga.edu) for more information.**