

HOSTED BY THE USNA RESEARCH OFFICE

# Midshipman Research Poster Session



**U.S. Naval Academy  
Dahlgren Hall  
5 May 2016**

0830-0900

Open poster viewing

Mids are free to view other posters.

Talk to classmates about research. View the research topics in other departments.

Guests can view posters.

0900-1030

All mids must stand by their posters and discuss their research with faculty and guests.

These midshipmen are enrolled in independent research courses (XX496 or the equivalent, or Trident) or honors courses, and have been working with USNA faculty on projects in many areas, including those of interest to the Navy. This unique learning experience allows midshipmen to apply their classroom knowledge to new areas and important problems as well as develop their critical thinking skills. Today, we celebrate their accomplishments and contributions.

<b>POSTER #</b>	<b>MIDN Presenter(s)</b>	<b>Major</b>	<b>Poster Title</b>	<b>Adviser(s)</b>
1	Ethan Dalton	Honors Political Science	US-Pakistani Relations: Aid and Influence	D. Wheeler
2	Ethan Hamilton	Political Science	Reintegrating Colombia's Internally Displaced through Microfinance	G. Mattox
3	Henry Dewing	Political Science	The Impact of External Influence in Constitution Drafting on Initial and Sustained Public Participation	M. Kellermann
4	Bree Aronin	Political Science	Exploring the Effects of Interdisciplinary, Co-Instruction on Student Trust, Cooperation, and Environmental Attitudes	H. Ernst
5	Marc Prather	Honors Political Science	The Politics of Ethnic Integration: Analyzing the Impact of Education Policy on School Segregation in England, 2003-2015	M. Kellermann
6	Sydney Hemphill	Honors Political Science	Effects of Freedom and Medical Capacity on Infectious Disease Outbreak Response	P. Ling
7	D Thomas Wilson	Political Science	The Role of Leaders in Civil War	M. Testerman
8	Ellie McCarty	Honors Political Science	Analyzing the Impact of ICTs on Democratization and Authoritarian Rule in Sub-Saharan Africa	J. Lewis, D. Wheeler
9	Ryan Turner	Honors Political Science	Beneath the Surface: A Quantitative Analysis of Why Non-State Actors Support Rebel Groups	J. Lewis, M. Kellermann, H. Ernst
10	Sarah Armstrong	Honors Political Science	Political Party Systems in Southeast Asian Democracies: Party Types and Causes	M. Kellermann
11	Caroline Zotti	Honors Political Science	The UN Millennium Development Goals: Issue Salience and Program Success	J. Lewis, T. Davenport, P. Ling
12	Gavin Jernigan	Political Science	The Effect of Police Violence on Racism	T. Davenport, M. Kellerman
13	Shradha Patel	History	Crowned with Expectations: Anglo-Assyrian Relations and the Termination of the British Mandate for Iraq	E. Tucker
14	Andrew Anderson	History Honors	The Loyal Scapegoat: Stratford Canning During the Menshikov Mission and the Origins of the Crimean War	M. Belson
15	Jody Lamb	Honors History	The Catskills, 1865-1914: Nature, Leisure, and the Origins of the American Summer Vacation	T. McCarthy
16	Katherine Rodrock	English	Traditions and Renewals: The Medieval World and the Language of the Pearl Poet	J. Fitzgerald
17	Drew Bell	Honors English	A Newspaper Conductor, Walt Whitman: Printing Poetry, Binding the Collective Unconscious	T. Cone
18	Cyrus Wilson	Honors English	The Civil War's Effect on Walt Whitman's Determination of Human Value	T. Cone
19	Mallory Shelton	Honors English	Whitman in the Digital Age: Do Users of The Whitman Archive Get an "Authentic" Reading Experience?	T. Cone
20	Virginia Burger	Honors English	Death, Democracy, and Walt: Whitman's Justification for a Democratic Ideal, or Lack Thereof	T. Cone
21	Samantha Thomas	Honors English	Ecocentrism and Humankind: Finding a Dwelling Place through Whitman's Mockingbird	T. Cone
22	Lucian DuChaine	Honors English	Delivering the Dead: "Drum-Taps" and Post-War Unification	T. Cone
23	Zachary Hirsch	Honors English	The Vault at Pfaff's: Whitman's Bohemian Years	T. Cone
24	Aaron Zimmerman	Honors English	"Roads? Where We're Going, We Don't Need Roads": Whitman Traversing Time and Space in His Epic, Leaves of Grass	T. Cone
25	Sarah Armstrong	Honors English	The Unfortunate New Yorker: Whitman Faces His Insecurities	T. Cone
26	Anthony Mayes	Honors English	The Wound-Dresser's ARTiculation: Interpreting Walt Whitman's Civil War Writings	T. Cone

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27	Jodi Cull-Host	Honors English	Walt Whitman's Song: How Opera Influenced America's Poet	T. Cone
28	Paige Ward	English	Understanding Androgyny in Romantic Poetry	N. Comet
29	Paige Ward	Aerospace Engineering	Automatic 3-Axis Balancing of a Spherical Rotor	J. King
30	Brad Jaeb, Chris Hamilton	Aeronautical Engineering & Mechanical Engineering	Low Speed Applications of Computational Fluid Dynamics	L. Hamilton, J. Milluzzo
31	James Catina <sup>B</sup> , Brett Nellis	Aerospace Engineering	Use of Additive Manufacturing to Develop Advanced Hybrid Rocket Designs	K. Castonguay
32	Mitchell Heaton <sup>B</sup>	Aeronautical Engineering	Randomized Path Optimization for Mitigated Counter-Detection of UAVs	L. DeVries, M. Kutzer
33	Brian Cully	Aerospace Engineering	Hover Performance Comparison of Leading-Edge Protuberances on Rotor Blades	J. Milluzzo
34	Keian Hardy	Aerospace Engineering	Performance Measurements of Tubercle Rotor Blades	J. Milluzzo
35	Scott Swegle	Aerospace Engineering	On the Accuracy of Processing PIV Velocity Fields for Circulation Control Wings	D. Miklosovic
36	Colston Polly	Aerospace Engineering	Line-of-Sight Stabilization and Control for Precision Pointing of Optical Payloads	T. Lim
37	Eryn Culton	Aerospace Engineering	Small Satellite Navigation System: Concept Validation	J. Kang
38	Morgan Lange	Aerospace Engineering	AMODS: Autonomous Mobile On-orbit Diagnostic System	J. Kang
39	Edward Hanlon	Aerospace Engineering & Systems Engineering	AMODS: BRICSat Operations	J. Kang
40	Jacob Pittman	Aerospace Engineering & Mathematics	AMODS: BRICSat Propulsion	J. Kang
41	Benjamin Keegan	Systems Engineering	AMODS: RSat Robotic Systems	G. Piper
42	Dan Grocki, Ryan Lewandowski	Systems Engineering	Additive Manufacturing for the Future of Naval Maintenance	B. Bishop
43	TBD	Systems Engineering	Probabilistic Stand-Off Estimation of Target Coordinates	R. O'Brien, M. Kutzer
44	Forrest Cooke <sup>T</sup>	Systems Engineering	Uncalibrated Three-Dimensional Microrobot Control	S. Firebaugh, J. Piepmeier, H. Elbidweihy
45	Alvin Abes <sup>T</sup>	Systems Engineering	Modeling and Control of the Cobelli Model as a Personalized Prescriptive Tool for Diabetes Treatment	R. O'Brien
46	Tyler McCarthy <sup>B</sup>	Systems Engineering	Analysis of Multi-Gesture Recognition for Improved Performance of Gesture Classification	L. DeVries
47	Aaron Sims <sup>B,T</sup>	Systems Engineering	Multi-vehicle Control with Indirect Communication	L. DeVries, C. Leidig
48	Ryan Burmeister <sup>T</sup>	Computer Science	Fast, Distributed Algorithms in Deep Networks	G. Taylor
49	Stephen da Cruz	Computer Science	Using Vectors to Identify Entities in Online Attacks	N. Chambers
50	Ben Fry	Computer Science	Live Detection of Network Attacks Using Social Media	N. Chambers
51	Susanna Heidt	Computer Science	Refining Graphical Password Strength Meters for Android Phones	A. Aviv
52	John Davin	Computer Science	Cybersecurity Impact of "Shoulder Surfing" Attacks on Password Authentication on Mobile Devices	A. Aviv
53	Joshua King	Computer Science	Bias Correct and Gibbs Initialization in Collective Classification	L. McDowell

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54	Jorge Rivas	Cyber Operations	Wireless Exploitation With Software Defined Radio	J. Roth
55	Robert DeGabriele	Cyber Operations	Characterization of Timing Advance in Long Term Evolution	J. Roth
56	Zac Dannelly, Lucas Foppe	Cyber Operations & Computer Engineering	Cross-Protocol Device Fingerprinting via Extensible Authentication Protocol (EAP) Design Flaws	J. Martin, E. Rye
57	Jordan Wilhelm-Wenzel, Lamont Brown	Cyber Operations & Computer Science	Correlation of Manufacturer-Unique Data Fields to Device Model in 802.15.1 Bluetooth	J. Martin, E. Rye
58	Jeremy Joens	Computer Engineering	Denial of Service Protection in a Software Defined Network	J. Roth, T. Parker
59	Kathleen Heinbach <sup>B</sup>	Computer Engineering	Analyzing Low Probability of Intercept Radar using the Nyquist Folding Receiver	T. Tedesso
60	Stephen Phillips	Electrical Engineering	Powering the G.O.A.T Robot Football Team	J. Stevens, K. Galloway
61	Spencer Shabshab <sup>T</sup>	Electrical Engineering	Synchronization of Parallel-Connected Three-Phase Power Inverters Through Virtual Oscillator Control	D. Opila, J. Stevens
62	Allison Hunt <sup>B</sup>	Electrical Engineering	Effects of eNodeB Geometry on Timing Advance-Based Positioning	J. Roth, O. Walker, J. Blanco, J. Martin
63	Thomas Hand	Electrical Engineering	Directed Energy Detection Using Embedded Fiber Bragg Grating Sensors	B. Jenkins, D. Mechtel, P. Joyce
64	Adarsh Ghosh	Economics	Cybernomics: The Economic Cost of a Cyber Attack	A. McQuoid
65	Daniel Rose	Honors Economics	The impact of NFL Rookie Pay on Performance	M. Insler, J. Karam
66	Darren Freedman	Economics	Modeling the Environmental Kuznets Curve in the United States	K. Swope, A. McQuoid
67	Patrick Eytchison	Honors Economics	Foreign Direct Investment Effects on Growth and TFP	J. Rothert
68	Amanda Assenmacher	Honors Economics	Effect of Political Affinity on Institutional Aid	A. Rahman
69	Jeffrey Martino	Honors Economics	The Effect of Uber on DUI Rates	M. Insler
70	Thomas Wester <sup>T</sup>	Applied Mathematics	Mathematical Modeling: Immune System Dynamics in the Presence of Cancer and Immunodeficiency in vivo	S. Garcia
71	Dónal Hanlon <sup>B</sup>	Mathematics	Particle and Wave Behavior around a Black Hole Pierced by a Cosmic String	D. Konkowski
72	Ian Shaw <sup>T</sup>	Mathematics	Constructing Rational Maps with Specified Dynamical Structure	A. Ksir, B. Stout
73	Megan Hartman	Mathematics	Rational Map with the Tetrahedral Automorphism Group	A. Ksir
74	Jacob Glesmann <sup>B</sup>	Nuclear Engineering	Neutron Protection Factors and MCNP Validation for a Vehicle Surrogate	M. Millet, M. Nelson, LTC Prins, MAJ Decker
75	Megan Hough <sup>B</sup>	Nuclear Engineering	Radiation Detector Design, Spy - Small Portable Gamma Detector	M. Nelson, M. Millett
76	Christian Herrmann	Nuclear Engineering	Recrystallization of Additive Manufactured Inconel 625	B. Baker, M. Cerza

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77	Megan Rausch <sup>B</sup>	Mechanical Engineering	Material Characterization of Current Reactor Steels in Advanced Reactor Design	B. Baker
78	Jack Smith	Mechanical Engineering	Analysis of Friction Stir Welding on Al5083	B. Baker
79	Maxwell Wiechec <sup>B</sup>	Mechanical Engineering	Electron Backscatter Diffraction on Laser Heated HY80 Steel	B. Baker
80	Stephen Walsh <sup>B</sup>	Mechanical Engineering	A Spatial and Temporal Characterization of the Background Neutron Environment at the Navy and Marine Corps Stadium	M. Millett, M. Nelson
81	Michael Romano <sup>B</sup>	Mechanical Engineering	Microscale Energy Harvester Design and Analysis through Nonlinear Discontinuous Bistable Structural Dynamics	J. Radice
82	Mark Schnabel <sup>B</sup>	Mechanical Engineering	Lattice Boltzmann Modeling of Turbine Tip Gap Leakage	S. Blair, R. Volino
83	Maurice Harris	Mechanical Engineering	Improving the Resolution of Steady-State, Infrared-Based Thermal Interface Resistance Measurements Using High-Precision Metrology to Determine In-Situ TIM Thickness	R. Warzoha, A. Smith
84	Christopher Day	Mechanical Engineering	Fiber Optic Sensors for Force Balance Application	P. Joyce, B. Jenkins
85	Kyle Ritterbeck	Mechanical Engineering	The Reinforcing Effects of Graphene Sheets on Acrylic Resin	J. Schubbe
86	Ace Padilla	Mechanical Engineering	Analyzing the Thermal Performance of Graphene-Coated Metal Foams to Improve Thermal Energy Storage in Solid-Liquid Phase Change Materials	R. Warzoha
87	Tim Tracey <sup>T</sup>	Mechanical Engineering	Measurement and Modeling of High Energy Laser (HEL)-Droplet Interactions	C. Brownell, S. Blair
88	Chris Hamilton, Brad Jaeb	Mechanical Engineering & Systems Engineering & Aerospace Engineering	Active Aerodynamic Applications in Formula SAE	L. Hamilton, J. Milluzzo
89	Andre Evans	Naval Architecture	Experimental Force & Moment Testing of a Wide-Body Submarine	M. Morabito, W. Beaver
90	Erik Derecktor	Naval Architecture	Development of a FoilBot Design Method	M. Morabito
91	Nicholas Lane	Naval Architecture	The Feasibility of a Liquid Natural Gas Retrofit of the WLBB-30 Class Icebreaker	J. Woertz
92	Thomas Wilson	Naval Architecture	Improvements to the Resistance and Maneuvering Characteristics of the USNA Concrete Canoe	P. Miller
93	John Tortorici	Naval Architecture	Design and Construction of the Smithsonian's Marine Autonomous Research Trimaran - Electric (SMART-E)	P. Miller
94	Brendan Klovekorn, Alec Morgan	Ocean Engineering	Applications of the Augmented Reality Sandbox within Ocean Engineering	D. Kriebel
95	Colby Sowerby	Ocean Engineering	Numerical Modeling of the Long-Line Kelp Structure Deployed at Wood Island in Saco, Maine	D. Fredriksson
96	Steven Reidel	Ocean Engineering	Long Line Kelp as a Mechanism for Wave Energy Dissipation	D. Fredriksson
97	Angela Carandang	Ocean Engineering	Numerical Optimization of Pre-Swirl Stators for Horizontal Hydrokinetic Turbines	A. Gish
98	David Tauber	Naval Architecture	Vertical Accelerations and Surge on a Planing Hull	C. Judge, G. White

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99	Jenna Westerberg <sup>B</sup>	Naval Architecture	A Corrosion Fatigue Characterization of HG10MNN and an Evaluation of Suitability for use in Naval Applications	J. Woertz
100	Dave Silver, Pat Roberts	Ocean Engineering	Experimental Analysis of an Array of Oscillating Water Columns	S. Mouring
101	Bailey Colon-Waite	Oceanography	Forecasting Future Sea Ice Index Using a Wavelet Based Neural Network Model	A. Muller
102	John Marino	Oceanography	Tornado Forecast Parameters	M. Cooper, G. Henderson
103	Alyson Eng	Oceanography	Seasonal Evolution of a Near-Surface Temperature Maximum (NSTM) in the Marginal Ice Zone (MIZ) of the Beaufort Sea from 2012-2013	J.P. Smith
104	Margo Darragh	Oceanography	Development of Sediment Grain Size Maps from Sidescan Surveys of the Lower Severn River, Maryland.	J.P. Smith
105	Alexandra McIntosh	Oceanography	An Analysis of West Coast Wave Energy during El Nino Cycles	W. Swick
106	Tasha Talbot	Oceanography	Using the Google Cloud to Process NDVI for Analyzing Water Stress in Saudi Arabia and California Cropland	P. Guth
107	Sean Ridinger	Oceanography	One-Dimensional vs. Three-Dimensional Price-Weller-Pinkel Model Comparison of Upper-Ocean Thermal Structure during Hurricane Ignacio (2015)	E. Sanabia
108	Lawrence Wilson III	Oceanography	Upper-Ocean Temperature Observations and the Associated One-Dimensional Ocean Model Response during Hurricane Ignacio (2015)	E. Sanabia
109	Haadi EISaawy	Oceanography	Quantifying the Impact of the Madden-Julian Oscillation on the Antarctic Atmosphere	G. Henderson
110	Julia Arthur	Oceanography	A climatology of peak stream discharge in relation to rapid ablation events in the Chesapeake Basin, December to March, 1960-2009	G. Henderson
111	Garrett Boyce	Oceanography	The Search for the USS <i>Indianapolis</i>	P. Guth
112	Alexandra Sherenco	Oceanography	Using GIS to Provide Spatial Analysis of Artefacts on Board the Swedish Warship, <i>Vasa</i>	P. Guth
113	Hannah Hayes	Oceanography	The effects of contamination on amphipod ( <i>Gammarus mucronatus</i> ) survival	C. Steppe
114	Helena Cheslack	Oceanography	Assessing the size distribution of <i>Crassostrea virginica</i> on a restored oyster reef in College Creek after seawall reconstruction	C. Steppe
115	Veronica Hoecherl	Oceanography	A Comparison of Chromium Concentrations in the Sediments of the Severn River and a Dredged Material Containment Facility	C. Steppe
116	Grace Pruden	Oceanography	Gametogenic Staging of Oysters in the Severn River	C. Steppe
117	Donald Puent <sup>B</sup>	Physics	Spin lifetime measurements of silicon vacancies in silicon carbide	P. Brereton
118	Dónal Hanlon	Physics	$\Delta^{++}(1232)$ Reconstruction in $\sqrt{s}=200$ GeV p+p Collisions	R. Witt
119	Alfred Garvey <sup>B</sup>	Physics	Free Ion Reduction in Liquid Crystals via Ferroelectric Nano Particles	R. Basu
120	Daniel Kinnamon <sup>B</sup>	Physics	Design, Fabrication, and Experimentation of Graphene-based Liquid Crystal Cells	R. Basu
121	Michael Woulfe <sup>T</sup>	Physics	Theory of a Nearly Two Dimensional Dipolar Bose Gas	R. Wilson
122	Joshua Gong	Applied Physics	Acoustical Imaging of a Model Target Hidden Behind Model Vegetative Clutter	M.S. Korman
123	Alexis Gamarra	Chemistry	Density Functional Study of Association Reaction of Iron and Nitric Oxide	R. McClean
124	Paris Bess	Chemistry	Density Functional Study of Manganese and Nitric Oxide	R. McClean

POSTER #	MIDN Presenter(s)	Major	Poster Title	Adviser(s)
125	Micah Gustafson	Chemistry	Molecular Dynamics: A Study	J. Harrison
126	Vianey Gomez, Ian McKenzie	Chemistry	Thinking Green: Development of Plant Gene Transformation Laboratories for Midshipmen	B. Rehill
127	Brice Clairmont	Chemistry	Microwave-Assisted Copper-Catalyzed Amidation of Aryl Halides via Concurrent Tandem Catalysis	S. Lin, A. MacArthur
128	Herman Pfaeffle	Chemistry	In Vitro Selection of a Hypoxanthine Probe	D. Morse
129	Eleanor Derouin, Morgan O'Connor	Chemistry	Smart Hydrogels for the Detection of Organophosphorous Nerve Agents	C. Whitaker
130	Michael Dorsey	Chemistry	Investigating the Role of Mutant B-Amyloid Peptide Interaction with Lipid Membranes by means of Colorimetric Vesicle Assay	E. Yates
131	Charisse Villareal	Chemistry	Examining the role of cholesterol in amyloidogenic protein/lipid interactions with the use of a colorimetric biosensing assay	E. Yates
132	Tyler Roach	Chemistry	Identification of Inhibitors to Cytochrome P450 (CYB) 1B1	L. Kennedy
133	Molly Chandler, Bobby Nolan	Chemistry	Natural Fiber Welding of Nanoparticles and Biopolymers Displaying Antimicrobial Properties	R. Russell, P. Trulove, E. Fox
134	Thomas Toohig	Chemistry	Fe( <i>t</i> -Bu <sub>8</sub> TATAP):A Biomimetic Carbon Monoxide Sensing Molecule	J. Fitzgerald
135	Samuel Brad <sup>B</sup>	Chemistry	Characterization of Microalgal Lipids for Optimization of Biofuels	C.R. Sweet
136	Onanong Smith, Kenneth Byrd	Chemistry	Analysis of Human Cytoplasmic Aconitase by Electron Paramagnetic Resonance Spectroscopy	V.F. Smith
137	Ashley Paek	Chemistry	Does Exposure to Nanoparticles Alter the Resistance of Bacteria to Antibiotics and Heavy Metals?	V.F. Smith
138	Brandon Foster, Mitch Larios	Chemistry	Investigation of the effects of titanium dioxide nanoparticles on liposomes using fluorescent dye leakage	V.F. Smith
139	Katie Ryall	Chemistry	Modification of Cotton Yarn through Natural Fiber Welding	P. Trulove
140	Audrey Head	Chemistry	Spatially Controlled Modification and Functionalization of Natural Polymer Substrates	P. Trulove, E. Fox
141	Nathaniel McLauchlan	Chemistry	Pyrolyzer Evaluations for Chemical Warfare Agent Disposal	S. Lin
142	Matthew Worosz	Chemistry	Electrochemical Behavior of Cysteine	G. Cheek
143	Nia Chandler	Chemistry	Impact of Leaf Maturity Zone on Leaf Defenses Against Insect Herbivores	B. Rehill
144	Adam Hammer	Chemistry	The Effect of Red Oak Foliar Phenolic Compounds on the Growth Rate of Gypsy Moth Larvae	B. Rehill
145	Venus Molony	Chemistry	Variation in Mass, Survivorship, and Development Among Gypsy Moth Egg Masses	B. Rehill
146	Joseph Francisco	Chemistry	Integration of HPLC/MS in the Identification of Hydrolyzable Tannins in Leaf Extracts	D. Dillner
147	Ryan Ballester, Kwazel Bertrand	Chemistry	Synthesis and Characterization of a Biomimetic Aminopyridine Ligand	R. Ferrante, P. Krieger
148	Wesley Yuan	Chemistry	Enantiomeric Enrichment of Alanine by Circularly Polarized Light	P. Krieger
149	Jonathan Cabarrus, Michael Brown	Chemistry	Laboratory Development: The Liquid-Vapor Equilibrium of Organic Solvents	R. Ferrante
150	Joe Chilbert	Chemistry	Reducing Dimensions: Extracting TMD Monolayers for Spintronic Research	J. Lomax
151	Nicholas Butler	Chemistry	Engineering a metal ion binding switch into the interior of a protein	J. Schlessman
152	Jessilyn Laney	Chemistry	Tailored Transport and Sequestration via Synthetic Biology	L. Kennedy

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153	Bridget Lee	Chemistry	Density, Velocity of Sound, Bulk Modulus, Viscosity, Flash Point, and Surface Tension, of Binary Surrogate Mixtures of Alternative Fuels	D. Luning-Prak
154	Chris Lewis, Rich Nguyen	Chemistry	Integrating Research on Student Understanding of Protein Structure with Implementation of a Biochemistry Laboratory Experiment	M. Teichert, J. Schlessman
155	Stephanie Moore	Chemistry	Exploring Students' Understanding of Spectroscopy in General Chemistry	M. Schroeder, M. Teichert
156	Tasha Eisenhower	Chemistry	Gender Inequality in STEM Academia: An Investigation of Factors that Influence the Decision to Remain in the Pipeline	M. Teichert
157	Darby Nelson	Operations Research (Sociology Project)	Evaluating Leadership: Gender and Subjective Performance Evaluations	D. Smith, J. Rosenstein
158	Thomas Moore	Chemistry	Historical Organic Pigments: The Challenge and Opportunity of the Nearly Forgotten	J. Lomax
159	Dakota Wenberg, Johnathan Lackey	various	The Effect of Incidence Angle on High Energy Laser Heating of Carbon Fiber Composite Material	S. Avramov-Zamurovic, R. Malek-Madani
160	John Slavens, Dylan Cabrera	various	Laser Propagation in the Maritime Environment	S. Avramov-Zamurovic, R. Malek-Madani
161	Nick Finks, AJ Camargo, Katie Wesdyk	various	Surface Temperature Measurements of an Irradiated Water Drop	S. Avramov-Zamurovic, R. Malek-Madani
162	Colin Kelly, Cassandra Suter, Drew Weninger	various	Mathematical Modeling of Airy Disk Diffraction	S. Avramov-Zamurovic, R. Malek-Madani
163	Luke Lanham, Dotan Zion	various	Laser propagation in Fog	S. Avramov-Zamurovic, R. Malek-Madani
164	Marius Bernotas	Electrical Engineering	Probability Density Function Analysis for Optical Turbulence with Applications to Underwater Communications Systems	C. Nelson
165	Daniel Jung	Electrical Engineering	Orbital Angular Momentum Laser Beams	C. Nelson
166	Late Posters			

T = Trident Scholar

B = Bowman Scholar

Note: A few posters may not have midshipman presenters (due to conflicts with exams).

More information about midshipman research can be found at:

<http://www.usna.edu/AcResearch/MidResearch/>

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