

HOSTED BY THE USNA RESEARCH OFFICE

Midshipman Research Poster Session



**U.S. Naval Academy
Dahlgren Hall
12 Dec 2017**

- 0830-0900 Open poster viewing
Mids are free to view other posters and talk to classmates about research.
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 (XX495 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.

POSTER #	MIDN Presenter(s)	Major	Poster Title	Adviser(s)
1	Ashley Schenck, Catherine Yip	Chemistry	Determining the Effect of Surfaces on Islet Amyloid Polypeptide and Prion Peptide Aggregation	E. Yates
2	Dexter Clark	Chemistry	Electrochemical Studies of Histine/Zinc Interactions	G. Cheek
3	Theresa Erbach, Meghan McDonough	Chemistry	Analysis of Inks using Capillary Electrophoresis	C. Copper
4	Raymond Chang	Chemistry	Microwave-Assisted Copper-Catalyzed Amidation of Aryl Halides via Concurrent Tandem Catalysis	S. Lin, A. MacArthur
5	Carly Knapp	Chemistry	The Synthesis and Characterization of Historical Pigments	J. Lomax
6	Elizabeth Lee	Chemistry	Heavy Metal Analysis in Hyperaccumulator Plants Grown in Agar using X-Ray Fluorescence (XRF)	M. Schroeder
7	Jack Korenak	Chemistry	Synthesis of Chlorofumaronitrile	J. Fitzgerald
8	Olivia Bair	Chemistry	Analysis of an Atoms First Curriculum for SC111	D. Dillner, M. Teichert, T. Thomas, M. Schroeder
9	Patrick Brennan, Thomas Hentges	Chemistry	Destruction of Organophosphorus Nerve Agents Using Metal-Organic Frameworks (MOFs)	C. Whitaker
10	Patrick Bolton	Chemistry	Crafting an Asymmetrical Naphthol G Pigment	J. Lomax
11	George Peng	Chemistry	Synthesis and Characterization of Bimetallic Complexes Incorporating Dimine/Dithiolene Bridging Ligands	W. Heuer
12	Sahara Graft	Chemistry	Mixtures of Hexylbenzene and Isododecane to Model Systems for Low Cetane Fuels	D. Luning Prak
13	Jeremy Garcia	Chemistry	<i>In Vitro</i> Selection of Guanine Riboswitch to Select for a Hypoxanthine Probe	D. Morse
14	J. Joseph Brough ^T	Chemistry	Assessment of Genetic Screening in Large, Asymptomatic Populations with Applications to Military Cohorts	D. Morse, E. McGuffey
15	Aaron Wickard, Zach Hudgens	Chemistry	Developing an Isolation Strategy for New Antibiotics	C. Sweet
16	Ted Johnson	Chemistry	Preparation and Analysis of Mixtures of Isocetane and Butylbenzene as Models for Low Cetane Fuels	D. Luning Prak
17	Lianne Marquez, Erin Kusuda	Chemistry	Effects of Red Oak Leaf Tannins on the Growth and Development of Gypsy Moth Larvae	B. Rehill
18	Benjamin Kondrup	Chemistry	Synthesis, Purification, and Characterization of Human Retroviral RNA	I. O'Carroll
19	Matt Switzer, Greg Murtha	Chemistry	Separation and Identification of Hydrolyzable Tannins in Red Oak Leaf Extracts	D. Dillner
20	Charles Cuthbert	Chemistry	Preparation and Imaging of PbS Nanocrystal Superlattice Films	W. Heuer
21	Seok Park, Robert Chung	Chemistry	Impact of Ionic Liquid composition and properties on Natural Fiber Welding	P. Trulove

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22	Cassandra Garfola	Chemistry	Structure Function Analysis in the HIV-1 Rev Response Element-Rev Protein Complex	I. O'Carroll
23	Kevin Moy	Chemistry	Crystallographic Studies of Staphylococcal Nuclease Proteins with Internal Polar Substitutions	J. Schlessman
24	Seok Park, Natalia Barrow, Cassie Garfola, Alex Ki, Erin Kusuda, Dwayne Williams, Joe Rhoem, Kimberly Moran, Pyung Choi,	Chemistry & Mathematics	MEW Line: Mucosal Early Warning System	L. Kennedy, A. Minut
25	Sara Peeleman	Applied Mathematics	Modeling Hemlock Tree Decline and Recovery	A. Minut, E. McGuffey
26	Bennett Marston	Applied Mathematics	A Proof of the Isoperimetric Inequality with Riemann Mapping	I. Popovici
27	Michael Wallace ^T	Operations Research	Innovations to Increase the Power of State-of-the-Art Graph-Theoretic Two-Sample Statistical Tests	D. Ruth
28	Carl Kolon ^T	Mathematics	Autonomous Pattern Formation via Dynamical Systems	K. Medynets
29	Kate Swafford	Cyber Operations	Redefining War Crimes to Account for Advances in Machine Learning	J. Kosseff
30	Alex Varon	Cyber Operations	Firmware Analysis of Solid State Drives	D. Brown
31	Alexi Mendolia	Cyber Operations	How to Build an (Offensive) Cyber Force	S. Orr
32	Justin Park ^B	Cyber Operations	Hidden-Markov Model-Augmented Fingerprint Based Positioning	S. Orr
33	Chris Kay	Cyber Operations	Due Process in 2017: Ethics and Technology	J. Kosseff
34	Hamrick Morgan	Cyber Operations	Vulnerabilities in Digitally Complex Maritime Systems	J. Lewis
35	Dylan Struthers	Cyber Operations	Vulnerabilities in Complex Maritime Systems	J. Lewis
36	Adam Pressel	Computer Engineering	Enabling Wireless Communication and Object Tracking in a Multi Agent Swarm	K. Galloway
37	Andrew Sumida	Electrical Engineering	Rapid Detection and Localization of High Energy Radiation for Defense Applications	J. Blanco
38	Matt Kautzman	Electrical Engineering	Localization and Rapid Detection of High Energy Radiation using Distributed Fiber Optic Sensing	B. Jenkins, P. Joyce
39	Armando Rivera ^B	Electrical Engineering	Automatic Fire Classification	R. Ives, R. Broussard, K. Galloway
40	Joseph Brugger ^B	Electrical Engineering	Analysis of Orbital Angular Momentum Laser Beams for Applications in Underwater Communication	C. Nelson
41	Maeve Broeg ^B	Electrical Engineering	Semiconductor Deterioration and Characterizing Laser Radiation Damage	C. Nelson, B. Jenkins, P. Joyce
42	Hannah Urbaczewski	Computer Science	Mental Models of User Password Changing Strategies	A. Aviv

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43	Stephen Steckler	Computer Science	Natural Language Processing: The Story Cloze and Story Reordering Task	N. Chambers
44	Carter Burn ^T	Computer Science	Human Aided Reinforcement Learning in Complex Environments	F. Crabbe
45	Brandon Sipes	Computer Science	Deanonymizing Tor with Latency Changes	A. Aviv
46	Fernando Vale-Enriquez ^T	Computer Science	SMparT: SMT Solving with a Partial Theory Solver	C. Brown
47	David Liedtka ^T	Computer Science	Prediction of Regional Voting Outcomes Using Heterogeneous Collective Regression	L. McDowell
48	Jenny Ingliss	Information Technology	Identifying Correct Story Endings with Neural Networks	N. Chambers
49	Jake Sterkenburg	English	Chivalry, Conquest, and Characterization: Navigating Medieval Gender Norms through the Eyes of the Gawain Poet	J. Fitzgerald
50	Anna Paz	English (Honors)	Prepubescent Sexuality Exposed: Lewis Carroll's Contributions to Freudian Psychoanalysis	M. Allen-Emerson
51	Jane Lee	English (Honors)	Julia Margaret Cameron & Lewis Carroll: Orientalism in Victorian Era Photography	M. Allen-Emerson
52	Andrew Sikora	English (Honors)	William Morris' Red House: A Mecca of the Arts and Crafts Movement	M. Allen-Emerson
53	Grace Miller	English (Honors)	Adopting the Odalisque in Victorian Painting and Photography	M. Allen-Emerson
54	Matthew W. McKee	English (Honors)	Living in Plato's Shadows: Oscar Wilde's <i>The Picture of Dorian Gray</i>	M. Allen-Emerson
55	Cady Sheeks	English (Honors)	<i>Salome</i> Illustrated: Wilde's Curious Acceptance of the Art of Aubrey Beardsley	M. Allen-Emerson
56	Eli Wood	English (Honors)	Music in the Movement: Whistler and Wilde in Victorian Aestheticism	M. Allen-Emerson
57	Olivia Kluger	English (Honors)	A Victorian Woman's Transcendent Visual Freedom	M. Allen-Emerson
58	Shon Maduka	English (Honors)	The Judeo-Christian Death Tradition in the Victorian Era: Preservation through Photography and Literature	M. Allen-Emerson
59	Benjamin Johnston	English (Honors)	Imagining Reality: Portraiture in Victorian England	M. Allen-Emerson
60	Nicole Thatcher	English (Honors)	The Image of Illness: Portrayal of Disease and Medicine in Victorian Art and Literature	M. Allen-Emerson
61	Scott Diaz	English (Honors)	Out of the Shadows: The Impact of Dickens' <i>Sketches by Boz</i> on Victorian London	M. Allen-Emerson
62	Ben Barsam	History (Honors)	Plebe Summer Never Ends: The Origins and Development of Summer Indoctrination at the United States Naval Academy	C. Rentfrow
63	Clay Verkouw	History (Honors)	Kennedy's Progressive Push versus Johnson's Military Appeasement: Discontinuity in U.S.-Iranian Relations from 1961-1969	E. Tucker
64	William Allred	History (Honors)	Not Weary in Well Doing: The Influence of US Servicemen on the Church of Jesus Christ of Latter-day Saints in Japan, 1945-1953	J. Freymann
65	Luke Miller	History (Honors)	"A Subject of So Much Importance:" The Freedmen's Bureau's Educational Mission in South Carolina, 1865-1870	M. DeCredico

POSTER #	MIDN Presenter(s)	Major	Poster Title	Adviser(s)
66	Justice Cash	History (Honors)	Britannia, Edge of the World: One City Defies History	K. Sagstetter
67	Ryan Menke	History (Honors)	Force in the Far East: Royal Navy Gunboat Operations in China, 1860-1870	M. Dziennik
68	Nolan Brandon	Oceanography (Honors)	Historical Reconstruction of the Wave Field at the Historical Wreck Site of the U.S.S. San Diego	J.P. Smith
69	Casey Densmore ^T	Oceanography	Analysis of the Role of the Quasi-Biennial Oscillation on MJO Eastward Propagation through the Maritime Continent	B. Barrett, E. Sanabia
70	Rachel Boushon	Oceanography	SST Cooling Along the Tracks of Hurricanes Irma and Jose (2017)	E. Sanabia
71	Amelia Winn	Oceanography (Honors)	Physical and Biological Forcing of Water Quality Parameters in the Severn River	C. Steppe
72	Tong Ma	Oceanography & Ocean Engineering	Engineering Improvements to the Coastal Kayak Autonomous Surface Vehicle	J.P. Smith
73	Miranda Kosmides, Nicholas Padgett	Ocean Engineering	Sea Level Rise at the United States Naval Academy	D. Kriebel, A. Schedel
74	Sarah Reilly ^B	Ocean Engineering	Modeling Fixed Oscillating Water Columns	C. Hewgley, S. Mouring, M. Schultz
75	Alexandra Hoiles	Ocean Engineering	Effects of Hydrodynamic Drag Loads on Oyster Farming Components	D. Fredriksson
76	William Rittenhouse	Ocean Engineering	Investigating the Boundary Layer of a Flow over the Arena Carbon Flex Swimsuit	M. Schultz
77	Elizabeth Pittman	Ocean Engineering	DARPA FLOTSAM Buoy	A. Laun
78	Joseph Monaghan	Naval Architecture	Vibrating Plate and Turbulent Flow	M. Pavkov, J. Falls
79	John Morrison	Naval Architecture	Hydrodynamic Impacts of Submarine Sail Designs	J. Woertz
80	Peter Hodapp	Naval Architecture & Marine Engineering	The Effect of Wave Parameters on Axial-Flow Hydrokinetic Turbine Performance	E. Lust
81	Robert Mannier	Naval Architecture & Marine Engineering	Helicopter Hydrodynamics	J. Falls
82	Patrick Rice	Naval Architecture & Ocean Engineering	Understanding Whale Impact Loads on Longline Aquaculture Systems	D. Fredriksson, W. Beaver
83	Evan Akins	Mechanical Engineering	Investigating Improved Playability and Transportation of GreenFields Synthetic Turf	P. Joyce
84	Harrison Yosten ^B	Mechanical Engineering	Acoustic Emission Analysis for Non-Invasive Engine Monitoring	J. Cowart
85	Michael Walker ^{T, B}	Mechanical Engineering	A Partially Premixed Combustion Application for Diesel Power Improvement	J. Cowart
86	Sam Valley	Mechanical Engineering	Effects of Directed Near-Infrared Radiation on Saltwater Drops	C. Brownell

POSTER #	MIDN Presenter(s)	Major	Poster Title	Adviser(s)
87	Connor Panick ^B	Mechanical Engineering	Stress Corrosion Cracking Analysis of Additively Manufactured 17-4PH Stainless Steel Through Constant Extension Rate Testing	M. Koul
88	Josh LaFlam ^B	Mechanical Engineering	Thermal Effects of Environmental Degradation at Optical Surfaces for Directed Energy Applications	R. Warzoha, B. Donovan
89	Nick Stovall-Kurtz ^B	Mechanical Engineering	Heat Transfer Analysis of Thermal Damage Behind Carbon Fiber-Reinforced Polymer Skin	P. Joyce, R. Warzoha
90	Carson Taff	Mechanical Engineering	Harvesting Micro Energy from Vibration Motion	J. Radice
91	Austin Krusz ^B	Mechanical Engineering	Energy Harvesting through Nonlinear Discontinuous Dynamics Utilizing Electro-Magnetic Induction	J. Radice
92	Benjamin Anderson	Mechanical Engineering	Hydrogen Modification Kit for Diesel Engines	L. Hamilton
93	Nick Tagliavore	Mechanical Engineering	Analysis of Additively Manufactured Ti-6Al-4V Fracture Behavior	E. Retzlaff, S. Graham
94	Joshua Xu	Mechanical Engineering	Analysis of Corrosion on Al 2024 T-4	P. Moran
95	Ace Padilla	Mechanical Engineering	Measuring Heat Flow Across Phase Change Material-Metal Interfaces with Frequency-Domain Thermoreflectance	R. Warzoha
96	Zachary Scholz ^B	Nuclear and Mechanical Engineering	Development of Surrogate Special Nuclear Material (SNM) Sources for use in Testing and Training	M. Schell, M. Millett
97	Stephen Campo	Nuclear Engineering	Underwater Neutron Background	M. Schell, M. Millett
98	Nicholas Costa ^B	Nuclear Engineering	Gamma Signature Surrogate for Weapons Grade Uranium	M. Schell, M. Millett
99	Julian Martinez ^B	Nuclear Engineering	Dose to Tissue and Electronics for Underground Bunker Geometry	S. Mchale
100	Joshua Ten Eyck ^B , Ryan Mansfield	Nuclear Engineering	Measurement and Modeling of Neutron Protection Factors Using Bonner Sphere Spectrometry, Dosimetry, and the MCNP Transport Code	M. Millett
101	Zach Skirpan ^B	Nuclear Engineering	Molten Salt Nuclear Reactor Core Modeling	S. Blair
102	Brian Tobie	Nuclear Engineering	Methods of Sample Preparation and Analysis for Ion Irradiated Reactor Materials	E. Getto
103	Jordan Richardson	Nuclear Engineering	Microstructure Analysis of Additively Manufactured Stainless Steel	B. Baker
104	Dakota Allen ^{T, B}	Nuclear Engineering	Evaluation of Non-Oxide Fuel for Fission-based Nuclear Reactors on Spacecraft	S. Blair, M. Millett, M. Nelson
105	William Gomperts ^B	Nuclear Engineering	Dynamic Steam Condensation Characterization	J. Cowart
106	Josh Hanna ^B	Nuclear Engineering	Localized Corrosion Study of Wrought and Additive Manufactured Stainless Steels	P. Moran

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107	Jennifer Hedgecoth ^B	Nuclear Engineering	Influence of Tubercle Blades on Marine Current Turbine Performance when Exposed to Surface Waves	M. Murray, E. Lust, A. Gish
108	Brianna Kaufmann ^B	Nuclear Engineering	Assessment of Pebble Motion on Fuel Utilization	S. Blair
109	Paul Jackson	Nuclear Engineering	Hexadecapole Vibration in Gd-160	D. Hartley
110	Katie Kirkwood	Physics	Computer Simulation of Synthetic Aperture Sonar for Classroom Demonstration	M. Korman
111	Ben Dunphy ^T	Physics	Magnetotransport Properties of Shallow Quantum Well Structures for Spintronic Application	E. Cimpoiasu
112	Dean Rye	Physics	The Dissipative Jaynes-Cummings Model	R. Wilson
113	Christian Sorenson ^B	Physics	Infrared Microlensing Analysis of the Gravitationally Lensed Quasar Q0957+561	C. Morgan
114	Andrew Borgdorff	Physics	Thermal Conductivity of Novel Dielectric Materials	B. Donovan
115	Gregory Hyer ^T	Astrophysics	A Microlensing Analysis of the Central Engine in the Lensed Quasar WFI J2033-4723	C. Morgan, J. Larsen
116	J.P. Faucher	Astrophysics	Changing an Asteroid's Orbit with Light	J. Larsen
117	Zachary Lewis ^B	Aeronautical Engineering	Additively Manufactured Liquid Injectors for Rocket Propulsion	T. Graves
118	K. Parriott	Aerospace Engineering	Regression Rates of Solid Rocket Propellants	P. Caton
119	Chris Cantillo ^T	Aerospace Engineering	Experimental Transient Gust Response of a Representative Ship Airwake	D. Miklosovic
120	Charles Oestreich	Aerospace Engineering	Edge and Corner Detection for Pose Estimation and Object Detection	T. Lim
121	Nicholas Bakulinski	Aerospace Engineering	Effect of Metallic Plasma Exhaust on Solar Cell Power Production	J. Kang
122	Charles Linder	Aerospace Engineering	Flight Profile Analysis for UAS Free Space Optics (FSO) Communications Payload	T. Lim
123	Carly Donner	Systems Engineering	Localization of UAVs using a Microphone Array	D. Evangelista
124	Tyler Fleig	Systems Engineering	Maritime Magnetic Anomaly Mapping with a Diamond Nitrogen Vacancy Sensor	P. Frontera
125	Marina Muenster	Systems Engineering	Autonomy and the Future of Transportation	G. Piper
126	Anderson Camp	Systems Engineering	Development of an At-Home Assistive Rehabilitation Hand Exoskeleton Guided by Feedback	P. Jaramillo Cienfuegos
127	Anne Fisher	Systems Engineering	Simulation of Muscle Co-contraction guided by Feedback	P. Jaramillo Cienfuegos
128	Kevin McNeela	Systems Engineering	Application of Linear Control Systems to Assess the Role of the Thumb During Grip using Fiber-Reinforced Actuators	P. Jaramillo Cienfuegos
129	Parker Novakovic	Systems Engineering	Design and Control of Monocopter Aerial Vehicle	G. Piper
130	Joseph Rensvold	Systems Engineering	Intelligent Chaff	B. Bishop

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131	Jack Timberlake	Systems Engineering	Automatic Detection of Lung Cancer	R. Broussard
132	Chandler Vercher	Systems Engineering	Drone Identification and Tracking	R. Broussard
133	Thomas Stone	Systems Engineering	Anomaly Detection in Power Systems	T. Severson, K. Kiriakidis, D. Opila
134	Timothy Naski ^B	Systems Engineering	Optical Flow in Determining Obstacle Avoidance and Path Identification	G. Piper
135	Austin Schober	Systems Engineering	Pancreatic Secretagogues and Cobelli Model Diabetic Control	R. O'Brien
136	John McGillick	Systems Engineering	Matrix Completion Applied to LiDAR Data	J. Esposito
137	Matthew Sims	Systems Engineering	Autonomous Landing of a Fixed Winged Aircraft on a Moving Platform Using Optical Flow Sensing	G. Piper
138	Thomas Guinan	Systems Engineering	Flexible, Autonomous Underwater Vehicle	L. DeVries
139	Mike Kelly	Systems Engineering	Exploration of Multiple Wavelength Laser Beams in an Underwater Environment	S. Avramov-Zamurovic
140	Zoe Sobek, John Bolton	Systems Engineering	Laser Beam Propagation in a Maritime Environment	S. Avramov-Zamurovic
141	Shaun Shiotani, Joe Vogeney	Systems Engineering	Analysis of Underwater Laser Propagation	S. Avramov-Zamurovic
142	William Stamm	Systems Engineering	Search and Rescue Swarm Optimization by Genetic Algorithms	B. Bishop
143	Baylen Smith	Systems Engineering	Effects of Exercise on Cobelli Model Diabetic Control	R. O'Brien
144	Connor Linnartz	Systems Engineering	Modelling and Simulation of Human Joints	D. Evangelista
145	Dakota Wenberg	Systems Engineering	Modeling a Hybrid Robotic Controller for Spacecraft Assembly Applications	M. Kutzer
146	Anne Fisher	Systems Engineering	Simulation of Muscle Co-contraction Guided by Feedback	P. Jaramillo Cienfuegos
147	Jack Gainer ^T	Systems Engineering	Persistent Search and Track by an Autonomous Swarm	L. DeVries, M. Kutzer
148	Michael Bush ^B	Systems Engineering	Replacing Lookouts with Computer Vision	R. Broussard
149	Added posters			

T = Trident Scholar
B = Bowman Scholar

Note: Many of these projects are on-going and will be continued in the spring semester. A few posters will 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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Special Thanks to all supporters of Midshipman Research:
USNA Faculty and Staff
USNA MSC and Nimitz Library
Defense Threat Reduction Agency (DTRA)
Class of '79 Gift Fund
Class of '62 Gift Fund



Added posters

Poster #	MIDN Presenter(s)	Majors	Poster Title	Advisers
149	A. Ahn, R. Mathis, F. Stanford, S. Tuan	Interdisciplinary	Highly Concentrated Photovoltaic (HCPV) System Energy Technology	P Caton, H Ernst, J Smith, K Swope
150	L. Dodds, O. Firebaugh, B. Machen, and M. Tran	Interdisciplinary	Joec2 Program: Energy Metering in the Battlespace	P Caton, H Ernst, J Smith, K Swope
151	J. Fernandes, C. McNerney, J. Artis, A. Roskovich	Interdisciplinary	Solar Portable Alternative Communications Energy System (SPACES)	P Caton, H Ernst, J Smith, K Swope
152	C. Kramer, J. Reed, J. Kacergis, N. Pfanstiel	Interdisciplinary	Miramar Air Base in San Diego Microgrid	P Caton, H Ernst, J Smith, K Swope
153	Mendoza, Patricolo, Eudy	Interdisciplinary	Renewable Energy Optimization Report for Naval Station Newport	P Caton, H Ernst, J Smith, K Swope
154	R. Nowotny, E. Rha, J. Sharp, T. Zimmerman	Interdisciplinary	Camelina-Based Biofuels	P Caton, H Ernst, J Smith, K Swope
155	K.D. Cowan, V. M. Ramirez-Solis, B. R. Hammond, P. A. Phinney	Interdisciplinary	DDG 51s Increase Efficiency with Hybrid Electric Drives	P Caton, H Ernst, J Smith, K Swope
156	S. A. Goodwin, J.S. Lawlor, J.E. Britt, T.J. Aguilar	Interdisciplinary	Waste-to-Energy at Joint Base Pearl Harbor-Hickam	P Caton, H Ernst, J Smith, K Swope
157	T. Brown, K Hurst, C. Martin, E. Martin	Interdisciplinary	USNA Waste to Watts Program	P Caton, H Ernst, J Smith, K Swope
158	E. Cecchini, M Hundt, Z Moore, M. Rogers	Interdisciplinary	Radiant Barrier: Means to Lower Cost of Heating Tents	P Caton, H Ernst, J Smith, K Swope
159	N. Stovall-Kurtz, A. Huang, C. Gilpin	Interdisciplinary	Cogeneration of Electricity and Hot Water at DOD Installations	P Caton, H Ernst, J Smith, K Swope
160	Yohe, Taff, Martinez, Burg	Interdisciplinary	US NAVY: Geothermal Energy Plant	P Caton, H Ernst, J Smith, K Swope
161	B. B. Long, K. A. Festa, G. T. Uhrich, C. Hu	Interdisciplinary	Ground Renewable Expeditionary Energy System (GREENS)	P Caton, H Ernst, J Smith, K Swope
162	T. C. Abunike, J. S. Cotney, C. R. Dudeck, Z.G. Skirpan,	Interdisciplinary	Climate Sensitive Decision Making in the Department of Defense	P Caton, H Ernst, J Smith, K Swope
163	J. Castaneda, P. Spalding, I. Driewer, M. Starobin	Interdisciplinary	Solar Photovoltaic and Autonomous Soaring Base	P Caton, H Ernst, J Smith, K Swope
164	G. J. Collison, T. W. Massie, A. J. Kang, A. K. Maximic	Interdisciplinary	LED Lighting Aboard Naval Vessels	P Caton, H Ernst, J Smith, K Swope
165	McGrath, Merchant, Figueroa, Keo	Interdisciplinary	A Study of Ground Renewable Expeditionary Energy System	P Caton, H Ernst, J Smith, K Swope