



# **A CELEBRATION OF WEST POINT AUTHORS**

**3 April 2018 at 1200**

**Haig Room**

**Jefferson Hall Library and Learning Center**



# A Celebration of West Point Authors

Today we celebrate the more than 200 works of scholarship produced at the Academy between July and December 2017. The theme of this event is the intersection of civilian and military technology, policy, and innovation.

## Welcome and Introduction

Christopher Barth  
Librarian and Associate Dean

## Dean's Remarks

BG Cindy Jebb  
Dean of the Academic Board

## Panelists

- LTC Corey James, Chemistry & Life Science
  - Vitter, Scott, and LTC Corey James. "In a Position to Lead: How Military Technology and Innovation Can Ease the World's Water Challenges." *EARTH Magazine*, August 2017.
- Dr. Daniel J. Milton, Department of Social Sciences
  - Milton, Daniel J. "Dangerous Work: Terrorism against U.S. Diplomats." *Contemporary Security Policy* 38, no. 3 (September 2, 2017): 345-70.
- Dr. Lionel M. Beehner, Department of Military Instruction
  - Beehner, Lionel M. "Isolated but Idolized: How Civilian Veneration of the U.S. Military Undermines Innovation." Presented at the New York Military Affairs Symposium, New York, New York, November 10, 2017.
- MAJ Jim Twist, Army Cyber Institute
  - Twist, Jim (MAJ), CPT Blake Rhoades, and LTC Ernest Y. Wong. "Navigating the Cyber Threats to the U.S. Maritime Transportation System." In *Issues in Maritime Cyber Security*. Washington, D.C.: Westphalia Press, 2017.

**Moderator:** LTC Heidi Demarest, Department of Social Sciences

## Department of Behavioral Sciences and Leadership COL Everett Spain, Department Head

**Carroll, Marjorie H., and Lisa M. Korenman.** "Comparison of Male and Female Rape Myth Scripts." Presented at the American Psychological Association Convention, Washington, D.C., August 6, 2017. <http://apps.apa.org/convsearch/article.aspx?id=172836&type=abstract>.

**Ender, Morten G.** "Tweets, Trans, and the American Military." *JustSecurity.Org*, August 7, 2017. <https://www.justsecurity.org/43912/tweets-trans-american-military/>.

**High, Luke P. (CPT).** "Applying Lean Six Sigma at the Forward Support Company Level." *Army Sustainment* 49, no. 4 (August 2017): 60–61.

Kanter, Rosabeth Moss, and **CPT Marcus Millen.** "Still Leading (B1): Hon. Bob McDonald – Profiting from Purpose." Harvard Business School Case 318-050, October 21, 2017. <https://www.hbs.edu/faculty/Pages/item.aspx?num=53206>.

Lee, Dongwon, Nathaniel Osgood, Yu-Ru Lin, and **Robert Thomson**, eds. *Social, Cultural, and Behavioral Modeling: 10th International Conference, SBP-BRiMS 2017, Washington, D.C., July 5-8, 2017, Proceedings*. Springer, 2017.

**Matthews, Michael D.**, and W. Brad Johnson (USNA). "Military Psychology at US Military Service Academies." In *Handbook of Military Psychology*, edited by Stephen Bowles and Paul Bartone, 375–81. Cham, Switzerland: Springer International Publishing, 2017. [https://doi.org/10.1007/978-3-319-66192-6\\_22](https://doi.org/10.1007/978-3-319-66192-6_22).

Rohall, David E., **Morten G. Ender**, and **Michael D. Matthews.** "Narratives of Non-Enlistment: Why People Who Want to Join the Military Choose Not To." Presented at the 112th American Sociological Association Annual Meeting, Montreal, Quebec, August 12, 2017.

Rohall, David, **Morten G. Ender**, and **Michael D. Matthews**, eds. *Inclusion in the American Military: A Force for Diversity*. Lanham, Maryland: Lexington Books, 2017.

Sookermary, Anders McD., Trond Svela Sand, and **Morten G. Ender.** "Authorship and Affiliation in Armed Forces & Society: Developmental Trends Across Volumes 1–41." *Armed Forces & Society* 43, no. 3 (July 1, 2017): 415–35. <https://doi.org/10.1177/0095327X17700373>.

**Woodruff, Todd D. (COL).** "Who Should the Military Recruit? The Effects of Institutional, Occupational, and Self-Enhancement Enlistment Motives on Soldier Identification and Behavior." *Armed Forces & Society* 43, no. 4 (October 2017): 579–607. <https://doi.org/10.1177/0095327X17695360>.

**Yarnell, Angela (MAJ)**, and Neil Grunberg. “Developing ‘Allostatic Leaders’: A Psychobiosocial Perspective.” In *Leader Development Deconstructed*, edited by Matthew G. Clark and Craig W. Gruber, 1st ed., 15:23–50. Annals of Theoretical Psychology. New York, New York: Springer, 2017. [https://doi.org/10.1007/978-3-319-64740-1\\_2](https://doi.org/10.1007/978-3-319-64740-1_2).

## Department of Chemistry and Life Science COL F. John Burpo, Department Head

Afanador, Gustavo A., Alfredo J. Guerra, Russell P. Swift, **CPT Ryan E. Rodriguez**, David Bartee, Krista A. Matthews, Arne Schön, Ernesto Freire, Caren L. Freel Meyers, and Sean T. Prigge. “A Novel Lipoate Attachment Enzyme Is Shared by Plasmodium and Chlamydia Species.” *Molecular Microbiology* 106, no. 3 (November 1, 2017): 439–51. <https://doi.org/10.1111/mmi.13776>.

**Andersen '18, Zach (CDT), CDT Jason Hug '18, CDT Kylor Kiesewetter '18, CDT James Pruneski '19, CDT Alana Appel '20, CDT Payton Boylston '20, CDT Elizabeth Huuki '20, CDT Matthew McDonough '20, CDT Channah Mills '20**, Rayonna Gordon, Winston Ou, **2LT Ishmael Raheem '17, 2LT Dillon Macky '17**, Joel Gaston, John Cave, **Kamil Woronowicz**, Russel Pirlo, **Kenneth Wickiser, Alexander Mitropoulos**. “Detecting Chemicals with Engineered Olfactory Receptors through Microelectrode Array Readings.” Oral presentation at the 2017 International Genetically Engineering Machines Giant Jamboree, Boston, Massachusetts, November 9, 2017.

**Andersen '18, Zach (CDT), CDT Jason Hug '18, CDT Kylor Kiesewetter '18, CDT James Pruneski '19, CDT Alana Appel '20, CDT Payton Boylston '20, CDT Elizabeth Huuki '20, CDT Matthew McDonough '20, CDT Channah Mills '20**, Rayonna Gordon, Winston Ou, **2LT Ishmael Raheem '17, 2LT Dillon Macky '17**, Joel Gaston, John Cave, **Kamil Woronowicz**, Russel Pirlo, **Kenneth Wickiser, Alexander Mitropoulos**. “Detecting Chemicals with Engineered Olfactory Receptors through Microelectrode Array Readings.” Poster presented at the 2017 International Genetically Engineering Machines Giant Jamboree, Boston, Massachusetts, November 9, 2017.

**Armstrong, Matthew (LTC)**, Antony N. Beris, Simon A. Rogers, and Norman J. Wagner. “Dynamic Shear Rheology and Structure Kinetics Modeling of a Thixotropic Carbon Black Suspension.” *Rheologica Acta* 56, no. 10 (October 2017): 811–24. <https://doi.org/10.1007/s00397-017-1038-8>.

**Armstrong, Matthew (LTC)**, Antony N. Beris, and Norman J. Wagner. “Modeling the Transient Flow and Predicting LAOS Flow of a Thermoreversible Gel Using Scalar Structural Parameter Thixotropic Model.” Presented at the Society of Rheology 89th Annual Meeting, Denver, Colorado, October 8, 2017.

**Armstrong, Matthew (LTC), LTC Geoffrey Bull, and Andrew Biaglow**. “Using Survey Data to Assess Chemical Engineering Student Acumen.” Presented at the Annual American Institute of Chemical Engineering (AIChE) Conference, Minneapolis, Minnesota, November 29, 2017.

**Armstrong, Matthew (LTC), CDT Tyler Helton '18, CDT Evan Ousley '19, and CDT Michael Deegan '20**. “Contemporary Modeling and Analysis of Human Blood Rheology.” Presented at the Annual American Institute of Chemical Engineering (AIChE) Conference, Minneapolis, Minnesota, November 29, 2017.

**Armstrong, Matthew (LTC)**, Ryan P. Murphy, Norman J. Wagner, and Antony N. Beris. “Modeling the Transient Shear Flow and Predicting Large Amplitude Oscillatory Shear (LAOS) Flow of a Thermoreversible Gel Using a Scalar Structure Parameter Thixotropic Model.” Presented at the Annual American Institute of Chemical Engineering (AIChE) Conference, Minneapolis, Minnesota, November 29, 2017.

**Armstrong, Matthew (LTC)**, Paul M. Mwasame, Antony N. Beris, and Norman J. Wagner. “Application of a Parallel Tempering Algorithm towards Inverse Modeling.” Presented at the Society of Rheology 89th Annual Meeting, Denver, Colorado, October 8, 2017.

**Armstrong, Matthew (LTC), CPT Joshua White, LTC Geoffrey Bull, and CDT Jesse Hudgins '19**. “Developing Chemical Engineering Acumen by Brewing Kicking Mule Beer.” Presented at the Annual American Institute of Chemical Engineering (AIChE) Conference, Minneapolis, Minnesota, November 29, 2017.

**Barnhill, Jason (LTC)**, and Angela Yanigahara. “Tropical, Lethal Box Jellyfish: Venom Dose-Dependent Outcomes in a Piglet Model.” Poster presented at the Military Health System Research Symposium, Kissimmee, Florida, August 27, 2017.

Blachère, Nathalie E., Dana E. Orange, Emily C. Gantman, Bianca D. Santomasso, Graeme C. Couture, Teresa Ramirez-Montagut, John Fak, **Kevin J. O'Donovan**, Zhong Ru, Salina Parveen, Mayu O. Frank, Michael J. Moore, and Robert B. Darnell. “T Cells Presenting Viral Antigens or Autoantigens Induce Cytotoxic T Cell Anergy.” *JCI Insight* 2, no. 21 (November 2, 2017). <https://doi.org/10.1172/jci.insight.96173>.

**Burpo, F. John (COL), Enoch A. Nagelli,** Lauren A. Morris, Joshua P. McClure, **CDT Madeline Y. Ryu '19,** and **CDT Jesse L. Palmer '19.** "Direct Solution-Based Reduction Synthesis of Au, Pd, and Pt Aerogels." *Journal of Materials Research* 32, no. 22 (November 2017): 4153–65. <https://doi.org/10.1557/jmr.2017.412>.

**Clarion '17, Michael (2LT), CDT Michael Deegan '20, CDT Tyler Helton '18, CDT Jesse Hudgins '19, CDT Evan Ousley '19, CDT Austin Breed '17, and LTC Matthew Armstrong.** "Contemporary Modeling and Analysis of Steady State and Transient Human Blood Rheology." Presented at the Society of Rheology 89th Annual Meeting, Denver, Colorado, October 8, 2017.

**Eslinger, Melissa (LTC).** "Course Predictors of Success versus Performance in STEM." Presented at the Association of College and University Biology Educators (ACUBE), Columbia, South Carolina, October 20, 2017.

———. "Gateway to the Future: Career Pathways in the Biomedical Sciences." Presented at the Annual Biomedical Research Conference for Minority Students (ABRCMS), Phoenix, Arizona, November 3, 2017.

**Eslinger, Melissa (LTC), and LTC Timothy M. Hill.** "Predictors of Success versus Performance in STEM." Presented at the 61st Annual Meeting of the Association of College & University Biology Educators, Columbia College, Columbia, South Carolina, October 20, 2017.

**Eslinger, Melissa (LTC), and MAJ Elizabeth Kent.** "A Guided Exercise to Improve Scientific Literacy and Critical Analysis Skills." Microbrew Session presented at the American Society of Microbiologists Council for Undergraduate Education, Denver, Colorado, July 28, 2017.

**Eslinger, Melissa (LTC), CPT Ryan Rodriguez, and LTC Timothy Hill.** "Implementation of a Biology Concept Assessment Tool (BCAT) for Nonmajors Biology." Poster presented at the 24th Annual American Society for Microbiology Conference for Undergraduate Educators, Denver, Colorado, July 27, 2017.

**James, Corey M. (LTC),** Michael E. Webber, and Thomas F. Edgar. "Minimizing the Effect of Substantial Perturbations in Military Water Systems for Increased Resilience and Efficiency." *Processes* 5, no. 4 (October 18, 2017): 60. <https://doi.org/10.3390/pr5040060>.

**Kent, Elizabeth (MAJ), and LTC Melissa Eslinger.** "A CURE for Critical Analysis." Research in Lab-Biology (REIL-Bio) Workshop at the 24th Annual American Society for Microbiology Conference for Undergraduate Educators, Denver, Colorado, July 29, 2017.

Kumar, Amrendra, Laura E. Gordy, Jelena S. Bezbradica, Aleksandar K. Stanic, **LTC Timothy M. Hill,** Mark R. Boothby, Luc Kaer, and Sebastian Joyce. "NF-KB Protects NKT Cells from Tumor Necrosis Factor Receptor 1-Induced Death." *Scientific Reports* 7, no. 1 (November 15, 2017): 15594. <https://doi.org/10.1038/s41598-017-15461-y>.

**Lundell, Carl (LTC),** Owen T. O'Sullivan, Michael R. Gau, and Michael J. Zdilla. "Synthesis of Two Lead Complexes of Propellant Stabilizer Compounds: In Pursuit of Novel Propellant Additives." *Chemistry Select* 2, no. 35 (December 11, 2017): 11673–76. <https://doi.org/10.1002/slct.201701791>.

**Matsas '17, Bridget (2LT), 2LT Claire Barthel '17, CDT Maya Kuang '19, James L. Reilly IV, Jesse Trump, Caitlin Rinke-Kneapler, COL James Raftery (EECS), Kenneth Wickiser, COL James Ness (BS&L), and Kevin J. O'Donovan.** "Serotonin Receptor Regulator P11 as a Putative Serum Biomarker of Depression." Poster presented at the Military Health System Research Symposium 2017, Kissimmee, Florida, August 27, 2017.

**Miller, April D. (LTC),** Abdoukadi Chama, Tobias M. Louw, Anuradha Subramanian, and Hendrik J. Viljoen. "Frequency Sensitive Mechanism in Low-Intensity Ultrasound Enhanced Bioeffects." *PLoS ONE* 12, no. 8 (August 1, 2017). <https://doi.org/10.1371/journal.pone.0181717>.

**Miller, April D. (LTC),** Anuradha Subramanian, and Hendrik J. Viljoen. "Theoretically Proposed Optimal Frequency for Ultrasound Induced Cartilage Restoration." *Theoretical Biology and Medical Modelling* 14:21 (November 14, 2017). <https://doi.org/10.1186/s12976-017-0067-4>.

**Mitropoulos, Alexander, CDT Jason Hug '18, 2LT Dillon Macky '17, CDT Elizabeth Huuki '20, CDT Channah Mills '20, CDT Matthew McDonough '20, Joseph Loverde, Luis Alvarez, Kamil Woronowicz, and Kenneth Wickiser.** "Engineered Olfactory Receptors for Chemical Detection." Poster presented at the 2017 Chemical and Biological Defense Science & Technology Conference, Long Beach, California, November 28, 2017.

**Mortimer '20, Dade (CDT), CDT An Vu '20, MAJ Stephen Winter, COL F. John Burpo, and Enoch A. Nagelli.** "Polyelectrolyte-Wrapped Carbon Nanotubes/Platinum Nanowire Hybrid Composite Electrodes via Electrostatic Self-Assembly for Energy Storage and Conversion Applications." Poster presented at the Annual American Institute of Chemical Engineering (AIChE) Conference, Minneapolis, Minnesota, November 29, 2017.

**Nagelli, Enoch A., COL F. John Burpo, and MAJ Stephen Winter.** "3D Carbon Nanomaterial/Metal Nanowire Hybrid Composite Electrodes via Electrostatic Self-Assembly for Energy Storage and Conversion." Presented at the Annual American Institute of Chemical Engineering (AIChE) Conference, Minneapolis, Minnesota, November 29, 2017.

**Nagelli, Enoch A.**, Liang Huang, Feng Du, and Liming Dai. “3D Vertically-Aligned CNT/Graphene Hybrids from Layer-by-Layer Transfer for Supercapacitors.” Poster presented at the Annual American Institute of Chemical Engineering (AIChE) Conference, Minneapolis, Minnesota, November 29, 2017.

**O’Donovan, Kevin J., James L. Reilly, Jesse R. Trump, Kenneth Cameron (KACH), and Steven Svoboda (KACH).** “Osteoarthritis Biomarkers in a Cohort of 18-25 Year Old, Physically Active ACL Rupture Patients.” Poster Presentation presented at the Military Health System Research Symposium 2017, Kissimmee, Florida, August 27-30, 2017.

Vitter, Scott, and **LTC Corey James.** “In a Position to Lead: How Military Technology and Innovation Can Ease the World’s Water Challenges.” *EARTH Magazine*, August 2017.

**Wang ’20, Jenny (CDT), MAJ Stephen Winter, Kamil Woronowicz, COL F. John Burpo, and Enoch A. Nagelli.** “3D Graphene/Platinum Nanowire Hybrid Composite Electrodes via Electrostatic Self-Assembly for Supercapacitor Applications.” Poster presented at the Annual American Institute of Chemical Engineering (AIChE) Conference, Minneapolis, Minnesota, November 29, 2017.

## Department of Civil and Mechanical Engineering COL Karl F. Meyer, Department Head

**Barry, Brock.** *Nonverbal Communication.* YouTube Video. ASCE Interchange: Discussions on Civil Engineering Issues, 2017. [https://www.youtube.com/watch?v=WZzFzOzlUA4&index=1&list=PLA61bxD8Jg-2ZiW3R-EabzvFVNJda\\_KvH](https://www.youtube.com/watch?v=WZzFzOzlUA4&index=1&list=PLA61bxD8Jg-2ZiW3R-EabzvFVNJda_KvH).

**Bluman, James (LTC),** and Chang-kwon Kang. “Achieving Hover Equilibrium in Free Flight with a Flexible Flapping Wing.” *Journal of Fluids and Structures* 75 (November 1, 2017): 117–39. <https://doi.org/10.1016/j.jfluidstructs.2017.08.011>.

**Bowers ’17, William (2LT),** Fausto Panizzolo, Nikolaos Karavas, Asa Eckert-Erdheim, Christopher Siviy, Andrew Long, **Michael LaFiandra,** Conner Walsh, and **Gregory Freisinger.** “Effects of Powered Exosuit Training on Impulse During Gait.” Paper presented at the 41st Annual Meeting of the American Society of Biomechanics, Boulder, Colorado, August 8, 2017.

**Delaforge, Jean-Philippe (2LT Saint-Cyr), COL Michael Benson, COL Bret Van Poppel,** and Christopher Elkins. “Experimental Evaluation of a System of Multiple Angled Impinging Jets in a Turbulent Water Flow.” Presented at the 70th Annual Meeting of the American Physical Society Division of Fluid Dynamics, Denver, Colorado, November 19, 2017.

Dudnik, Vasily S., **MAJ Lyle R. Milliman,** and Gustavo J. Parra-Montesinos. “Shear Behavior of Prestressed Steel-Fiber-Reinforced Concrete Hollow-Core Slabs.” *PCI Journal* 62, no. 4 (August 2017): 58–72.

**Leahy ’18, Logan (CDT), 2LT Gabriela Barrera ’17, 2LT Matthew Vest ’17, 2LT Tyler Weaver ’17, Gregory Freisinger, and Rebecca Zifchock.** “Quantifications of the Relative Motion Between the Body and the Soldier Plate Carrier System: Applications of Accelerometry.” Paper presented at the 41st Annual Meeting of the American Society of Biomechanics, Boulder, Colorado, August 8, 2017.

**Norberg, Seth (LTC), CPT Timothy Ashcraft, and COL Bret Van Poppel.** “Integrating Technical Communication in the Mechanical Engineering Curriculum.” Presented at the 70th Annual Meeting of the American Physical Society Division of Fluid Dynamics, Denver, Colorado, November 19, 2017.

**Prasad ’18, Dipak (CDT), 2LT Nicholas Divito ’17, 2LT Matthew Byers ’17, 2LT William White ’17, COL Michael Benson, COL Bret Van Poppel,** and Christopher Elkins. “Three-Dimensional Measurements of Flow Field and Contaminant Dispersion in Urban Environments Using Magnetic Resonance Imaging.” Presented at the 70th Annual Meeting of the American Physical Society Division of Fluid Dynamics, Denver, Colorado, November 19, 2017.

Reynolds, Adam, Erin Florkiewicz, Donald Goss, and **Gregory Freisinger.** “The Effect of Transitioning From a Rearfoot Strike Pattern to a Non-Rearfoot Strick Pattern on Running Impulses.” Paper presented at the 41st Annual Meeting of the American Society of Biomechanics, Boulder, Colorado, August 8, 2017.

**Schlenker, Aaron,** Angela Boynton, Jennifer Neugebauer, **Rebecca Zifchock,** and **Gregory Freisinger.** “Analyzing the Applicability of Wearable Sensors to Measure Rowing Performance - A Pilot Study.” Paper presented at the 41st Annual Meeting of the American Society of Biomechanics, Boulder, Colorado, August 8, 2017.

**Siegel ’18, CDT Noah,** Gregory Rodebaugh, Christopher Elkins, **COL Bret Van Poppel, COL Michael Benson, 2LT Michael Cremins ’17, 2LT Austin LaChance ’17, 2LT Raymond Ortega ’17, and 2LT Douglas VanderYacht ’17.** “Design and Analysis of A Spin-Stabilized Projectile Experimental Apparatus.” Presented at the 70th Annual Meeting of the American Physical Society Division of Fluid Dynamics, Denver, Colorado, November 19, 2017.

Smith, Alec J., Erin Florkiewicz, Donald Goss, and **Gregory Freisinger.** “Effect of Transitioning Running Style from a Rearfoot to a Non-Rearfoot Strike Pattern on Impulse per Unit Distance.” Paper presented at the 41st Annual Meeting of the American Society of Biomechanics, Boulder, Colorado, August 8, 2017.

**Zifchock, Rebecca**, Michaela Sulley, Gary Helton, **Gregory Freisinger**, Frank Blackmon, Roderick Wilson, and Donald Goss. “Reliability of a Device to Measure Torsional Stiffness of Running Footwear.” Paper presented at the 41st Annual Meeting of the American Society of Biomechanics, Boulder, Colorado, August 8, 2017.

**Department of Electrical Engineering  
and Computer Science  
COL Barry Shoop, Department Head**

Adams, Joel C., **Suzanne J. Matthews**, Elizabeth Shoop, David Toth, and James Wolfer. “Using Inexpensive Microclusters and Accessible Materials for Cost-Effective Parallel and Distributed Computing Education.” *Journal of Computational Science Education* 8, no. 3 (December 2017): 2–10.

**Candelario '17, Kasey (2LT), 2LT Christopher Booth '17, Aaron St. Leger, and Suzanne J. Matthews.** “Investigating a Raspberry Pi Cluster for Detecting Anomalies in the Smart Grid.” Presented at the IEEE MIT Undergraduate Research Technology Conference, Boston, Massachusetts, November 3, 2017.

**Chamberlin, John (CPT), MAJ Jason Hussey, MAJ Benjamin Klimkowski, LTC William Moody, and LTC Christopher Morrell.** “The Impact of Virtualized Technology on Undergraduate Computer Networking Education.” Presented at the 2017 Association for Computing Machinery Conference on Information Technology Education, Rochester, New York, October 4, 2017.

**Deaton '17, Sean (2LT), 2LT David Brownfield '17, 2LT Leonard Kosta '17, 2LT Zhaozhong Zhu '17, and Suzanne J. Matthews.** “Real-Time Regex Matching With Apache Spark.” In *Proceedings of the IEEE High Performance Extreme Computing Conference (HPEC)*. Waltham, Massachusetts: IEEE, 2017. <https://doi.org/10.1109/HPEC.2017.8091063>.

**Haynes, Malcolm (LTC)**, and Thad Starner. “Effects of Lateral Eye Displacement on Comfort While Reading from a Video Display Terminal.” In *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies*, 1, no. 4 (December 2017). <https://doi.org/10.1145/3161177>.

**Hussey, Jason (MAJ), and MAJ Jacob Shaha.** “Educational Approach to Cyber Foundations in an Undergraduate Core Program.” Presented at the 2017 Association for Computing Machinery Conference on Information Technology Education, Rochester, New York, October 4, 2017.

**Kedrowitsch, Alexander (MAJ)**, Danfeng (Daphne) Yao, Gang Wang, and Kirk Cameron. “A First Look: Using Linux Containers for Deceptive Honeypots.” In *Proceedings of the 2017 Workshop on Automated Decision Making for Active Cyber Defense (SafeConfig '17)*, 15–22. New York, New York: ACM, 2017. <https://doi.org/10.1145/3140368.3140371>.

**Korpela, Christopher (LTC).** “Military Effect on LAWS.” Panelist at the United Nations Group of Governmental Experts on Lethal Autonomous Weapons Systems, Geneva, Switzerland, November 13, 2017.

**Matthews, Suzanne J.** “Parallel Computing: What Is It?” Presented at the TeenTech New York 2017 Conference: Shaping the Future, New York, New York, November 19, 2017.

**Matthews, Suzanne J., and Aaron St. Leger.** “Leveraging Single Board Computers for Anomaly Detection in the Smart Grid.” In *Proceedings of the 2017 IEEE 8th Annual Ubiquitous Computing, Electronics and Mobile Communication Conference (UEMCON)*, 437–43. New York, New York: IEEE, 2017. <https://doi.org/10.1109/UEMCON.2017.8249031>.

**Mentis, Alexander (LTC).** “Artificial Intelligence.” Panelist at Concordia College’s “Dialogues on the Quad,” Bronxville, New York, October 19, 2017.

**Miller '18, Samuel J. (CDT), 2LT Stephen Uyehara '17, 2LT Zachary Vosburg '17, 2LT Jacob Moffatt '17, 2LT Brayden Banske '17, 2LT Dominique Tan '17, and LTC Christopher J. Lowrance.** “A Dynamic Ensemble for Estimating State-of-Charge of Interchangeable Robot Batteries.” Presented at the IEEE MIT Undergraduate Research Technology Conference, Boston, Massachusetts, November 3, 2017.

Morgan, Geoffrey P., **LTC Michael J. Lanham**, William Frankenstein, and Kathleen M. Carley. “Sociocultural Models of Nuclear Deterrence.” *IEEE Transactions on Computational Social Systems* 4, no. 3 (August 4, 2017): 121–34. <https://doi.org/10.1109/TCSS.2017.2727071>.

Orsag, Matko, **LTC Christopher Korpela**, Stjepan Bogdan, and Paul Oh. “Dexterous Aerial Robots—Mobile Manipulation Using Unmanned Aerial Systems.” *IEEE Transactions on Robotics* 33, no. 6 (October 2017): 1453–66. <https://doi.org/10.1109/TRO.2017.2750693>.

Orsag, Matko, **LTC Christopher Korpela**, Paul Oh, and Stjepan Bogdan. *Aerial Manipulation*. Advances in Industrial Control. Cham, Switzerland: Springer, 2017.

**Rivera, Joey (LTC).** “Cyber Defense via Event-Based Modeling.” Presented at the 28th Annual IEEE Software Technology Conference (STC 2017), Gaithersburg, Maryland, September 26, 2017.

———. “Cyber Security via Formal Methods.” Presented at the International Conference on Cyber Conflict U.S. (2017 CyCon U.S.), Washington, D.C., November 7, 2017.

**Sagisi, Joseph (CPT)**, Joseph Tront, and Randy Marchany. “System Architectural Design of a Hardware Engine for Moving Target IPv6 Defense over IEEE 802.3 Ethernet.” In *Military Communications Conference (MILCOM), MILCOM 2017 - 2017 IEEE*, 551–56. Baltimore, Maryland: IEEE, 2017. <https://doi.org/10.1109/MILCOM.2017.8170846>.

**Shoop, Barry (COL)**. “Innovation as an Ecosystem.” Invited Speaker at the IEEE High Performance Extreme Computing Conference (HPEC '17), Waltham, Massachusetts, September 12, 2017.

**Shoop, Barry (COL)**, and Dave Robinson. “Cybersecurity Innovation Fireside Chat.” Presented at the Cybersecurity Awareness Month at JPMorgan Chase, New York, New York, October 9, 2017.

Silvestro, Sam, Hongyu Liu, **CPT Corey Crosser**, Zhiqiang Lin, and Tongping Liu. “Freeguard: A Faster Secure Heap Allocator.” In *Proceedings of the 2017 ACM SIGSAC Conference on Computer and Communications Security CCS 2017*, 2389–2403. Dallas, Texas: ACM, 2017. <https://doi.org/10.1145/3133956.3133957>.

**St. Leger, Aaron, 1LT Dylan Smith '15**, Jeremy Spruce, Peter Curtiss, Greg Gibbons, and Mike Miller. “Load Management System for Tactical Microgrids Using Solid State Relays.” In *2017 North American Power Symposium (NAPS)*, Morgantown, West Virginia: IEEE, 2017. <https://doi.org/10.1109/NAPS.2017.8107219>.

**St. Leger, Aaron**. “A Cyber-Physical Systems Perspective on Smart Grid Security.” Lecture presented at the Lehigh University Energy Systems Engineering Institute’s Distinguished Lecturer Series, Bethlehem, Pennsylvania, October 19, 2017.

## Department of English and Philosophy COL David Harper, Department Head

**Barnes, David (COL)**. “Combatants, Asymmetrical Combatants, or Criminal Civilians.” Presented at the Collectivism in the Morality of War Workshop, Manchester Centre for Political Theory (MANCEPT), University of Manchester, United Kingdom, September 2017.

**Barnes, David (COL)**. “Just War and Just Peace.” Invited Speaker, Harpst Center for Catholic Thought and Culture, University of San Diego, California, October 2017.

**Caldwell, Trivius (MAJ)**. “A Body Avatar: The Tupac and Ta-Nehisi Nexus.” Guest Lecture at the University of Louisville, Kentucky, November 2017.

———. “Atlantans on Atlanta.” Roundtable panelist at the South Atlantic Modern Language Association (SAML), Atlanta, Georgia, November 2017.

———. “A Soldier’s Tempest: Power and Servant Leadership.” Presented at the Shakespeare Machiavelli: Comedy and Statesmanship, Kentucky, November 2017.

———. “Military Leadership and the Tripartite Soul.” Presented at the Army Strategic Broadening Seminar, Louisville, Kentucky, August 2017.

**Carnes, Thomas (CPT)**. “Unauthorized Immigrants, Reasonable Expectations, and the Right to Regularization.” Presented at the 4th Ethics and Political, Social, and Legal Annual Conference, University of Michigan, Flint, Michigan, November 16, 2017.

**Hoppe, Jason, CDT Reilly Kissinger '18, CDT Jaqueline Parker '18, CDT Danny Nguyen '18, and CDT Luis Weierbach '18**. “Reaching Out by Looking Within: Reflexivity, Character, and the Coevolution of Consultant Scholarship and Client Growth in the Writing Center.” Poster presented at the National Conference on Peer Tutoring in Writing, Hofstra University, Hempstead, New York, October 12, 2017.

**Herbst, Seth**. “Penderecki’s Paradise Lost and the Music of Fallenness.” Presented at the 2017 Conference on John Milton, Birmingham, Alabama, October 13, 2017.

**Nelson, Cassandra**. “Sense and Comprehensibility: Revivifying Literature for First-Year College Students.” Presented at the 21st Annual Conference of the Association of Literary Scholars, Critics, and Writers, University of Dallas, Texas, October 27, 2017.

———. “Why the Doily?” *Commonweal Magazine* 144, no. 18 (November 10, 2017): 44-45.

**Nelson, John (COL).** “Contemporary Military Memoirs and Their Film Adaptations.” Presented at the “War Film” course at Naval War College, Newport, Rhode Island, October 5, 2017.

———. “Dubious Authenticity: Military Memoirs and Cinematic Adaptation.” Presented at the Pacific Ancient and Modern Language Association’s 115th Annual Conference, Honolulu, Hawaii, November 10, 2017.

**Query, Patrick.** “Eliot and the Anarchist.” Presented at the 38th Annual Meeting of the T.S. Eliot Society, St. Louis, Missouri, September 23, 2017.

**Sider, Justin.** “Aesthetic Categories and the Romance of Genre.” Presented at the American Comparative Literature Association Conference, Utrecht, Netherlands, July 9, 2017.

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## Department of Foreign Languages COL Gregory Ebner, Department Head

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## Department of Geography and Environmental Engineering COL Mark Read, Department Head

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## Department of History COL Ty Seidule, Department Head

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## Department of Mathematical Sciences COL Steven Horton, Department Head

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## Department of Physics and Nuclear Engineering COL Edward Naessens, Department Head

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**Department of Social Sciences**  
**COL Suzanne Nielsen, Department Head**

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## Department of Systems Engineering COL Robert Kewley, Department Head

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**Evangelista, Paul (LTC), 2LT Albert Pattillo '17, 2LT Taylor Ross '17, 2LT Sean Murray '17, and 2LT Majlon Robertson '17.** "Soldier Load Effect Considerations for Materiel Acquisition." Presented at the 2017 International Annual Conference of the American Society for Engineering Management, Huntsville, Alabama, October 18, 2017.

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**Moody '17, Travis (2LT), 2LT Robert Provine '17, 2LT Samantha Todd '17, 2LT Nicholas Tyler '17, MAJ Thomas Ryan, and Ricardo Valerdi.** "Early Life Cycle Cost Estimation: Fiscal Stewardship with Engineered Resilient Systems." Presented at the Conference on Systems Engineering Research (CSER), Redondo Beach, California, March 23, 2017.

**Provaznik '18, Daniel (CDT), and Vickram Mittal.** "DoD Acquisition Structures for a Dynamic World: Case Study of Land Warrior vs TALOS." Presented at the 2017 International Annual Conference of the American Society for Engineering Management, Huntsville, Alabama, October 18, 2017.

**Ryan, Thomas (MAJ).** "Systems Thinking and the Army: A Perspective." Presented at the Systems Thinking and Modeling in Public Affairs Course, Cornell University's College of Human Ecology, Ithaca, New York, October 6, 2017.

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## Department of Military Instruction COL William Ostlund, Department Head

**Beehner, Lionel M.** "Isolated but Idolized: How Civilian Veneration of the U.S. Military Undermines Innovation." Presented at the New York Military Affairs Symposium, New York, New York, November 10, 2017.

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**Army Cyber Institute**  
**COL Andrew Hall, Director**

**Barnsby, Robert E. (ACI Law Fellow).** “3 BIG Things to Look for in Cyber Law in 2018” Luncheon Speaker at the Impact of Emerging Technologies on the Law of Armed Conflict, West Point, New York, October 25, 2017.

**Barnsby, Robert E. (ACI Law Fellow).** “Cyber and the Law of Armed Conflict.” Guest Lecture at Pace University School of Law, White Plains, New York, November 9, 2017.

**Barnsby, Robert E. (ACI Law Fellow).** “The Future After Tallinn Manual 2.0.” Panel Moderator at the CyCON US 2017 Conference, Washington, D.C., November 8, 2017.

**Hall, Andy (COL), and COL Rob Kewley (Systems).** “The Army’s Academic and Partnership Outreach Efforts to Support the Cyberspace Fight.” Panelists at the Association of the United States Army Hot Topic Panel: Cyber Operations and the Future Fight, Defense Acquisition University, Huntsville, Alabama, December 13, 2017.

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Puyvelde, Damien Van, and **Aaron F. Brantly**, eds. *US National Cybersecurity: International Politics, Concepts and Organization*. Routledge, 2017.

Raj, Rajendra, Joseph Ekstrom, Allen Parrish, and **Edward Sobiesk.** “Information Technology as a Cyber Science.” Presented at the 2017 Association for Computing Machinery Conference on Information Technology Education, Rochester, New York, October 4, 2017.

**Twist, Jim (MAJ), CPT Blake Rhoades, and LTC Ernest Y. Wong.** “Navigating the Cyber Threats to the U.S. Maritime Transportation System.” In *Issues in Maritime Cyber Security*, edited by Fred S. Roberts, Nicole K. Drumhiller, and Joseph DiRenzo III. Washington, D.C.: Westphalia Press, 2017.

**Vanatta, Natalie (LTC).** “Envisioning the Future to Empower Action.” *Computer* 50, no. 7 (July 2017): 85.

**Vanatta, Natalie (LTC).** “Threatcasting – Preventing Strategic Surprise.” Presented at the CyCON US 2017, Washington, D.C., November 8, 2017.

**Vanatta, Natalie (LTC).** “Hacking Our Defenses: The Future of Cybersecurity.” Presented at the Chicago Ideas Week, Chicago, Illinois, October 17, 2017.

**Wong, Ernest Y. (LTC).** “Coming Up with the Next Wave of Cyber Innovations (Start by Thinking 1ns1d3 Th3 B0x).” Presented at the SecureWV and Hack3rCon 8, South Charleston, West Virginia, November 18, 2017.

———. “Systems Engineered Cybersecurity Cadet Capstone Projects - Leveraging Diversity at West Point to Solve Army Problems.” Presented at the 8th Annual National Initiative for Cybersecurity Education (NICE) Conference, Dayton, Ohio, November 8, 2017.

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**USMA Library**

**Christopher Barth, Librarian and Associate Dean**

**Seminelli, Heather.** “Getting Started with Digital Signage.” Presented at the Library Marketing and Communications Conference, Dallas, Texas, November 16, 2017.

**Seminelli, Heather.** “Using Assessment to Tell the Story of Library Services.” Invited presentation at the Military Libraries Training Workshop, Arlington, Virginia, December 5, 2017.



**USMA Preparatory School  
Melanie Wong Dodge, Academic Dean**

Rasamny, JK, Augustine Moscatello, Katherine Dermigny, Deya Jourdy, Tali Lando, Ameet Kamat, Cameron Budenz, Craig Berzofsky, **Melanie Jones**, et al. "OP27 – Comprehensive Molecular Analysis of Thyroid Cancer: Diagnosis, Predictors of Disease Progression and Targets for Directed Therapy." Presented at the 3rd World Congress on Thyroid Cancer, Boston, Massachusetts, July 27, 2017. <http://thyroidworldcongress.com/presentation/op27-comprehensive-molecular-analysis-of-thyroid-cancer-diagnosis-predictors-of-disease-progression-and-targets-for-directed-therapy/>.

**Call for Published Scholarship**

The Office of the Dean and the USMA Library continue to seek the submission of scholarship published by cadets, faculty, and staff in order to better promote and celebrate the contribution by USMA personnel to scholarly communication across all disciplines.

Work should be original scholarship, and can include monographs, journal articles, bibliography, conference presentations and papers, research posters, literature, art, poetry, film, and music.

The period of interest for the next Dean's Celebration of West Point Authors is 01 January - 30 June 2018. Please submit your work to your library liaison listed below:

Behavioral Sciences and Leadership	Darrell Hankins
Chemistry and Life Science	Manja Yirka
Civil and Mechanical Engineering	Laura Mosher
Electrical Engineering and Computer Science	Nick Olijnyk
English and Philosophy	Susan Lintelmann
Foreign Languages	Elaine McConnell
Geography and Environmental Engineering	Alicia Mauldin-Ware
History	G. Corey Harmon
Law	Suzanne Christoff
Mathematical Sciences	Heather Seminelli
Physics and Nuclear Engineering	Mary Ahenakew
Social Sciences	Michael Arden
Systems Engineering	Daniel Pritchard
Military Instruction	Daniel Pritchard
Physical Education	Celeste Evans
Center for Enhanced Performance	Karen Shea
USMA Prep School	Karen Shea