

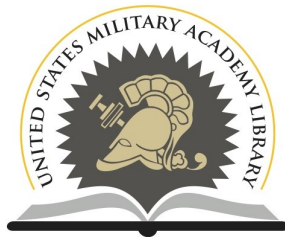


A CELEBRATION OF WEST POINT AUTHORS

2 April 2019 at 1200

Haig Room

Jefferson Hall Library and Learning Center



A Celebration of West Point Authors

Today we celebrate the more than 300 works of scholarship produced at the Academy between July and December 2018.

Welcome and Introduction

Christopher Barth
Librarian and Associate Dean

Dean's Remarks

BG Cindy Jebb
Dean of the Academic Board

**This event is celebrating the “Semester of Grant” with
Dr. Elizabeth Samet, Department of English & Philosophy**

The Annotated Memoirs of Ulysses S. Grant

&

USMA Special Collections and Archives

Presenting unique items from and relating to Ulysses S. Grant

* Items marked with the asterisk are from January-June 2018 that were not included in the previous program.

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

Absalon, Jacob (MAJ), and Dr. Morten G. Ender. “The Diversity and Inclusion Minor at West Point: A Multidisciplinary Effort.” Presented at the Inter-University Seminar on Armed Forces & Society Canada Conference, Ottawa, Canada, October 20, 2018.

Callina, Kristina Schmid, Brian Burkhard, **Dr. Hillary S. Schaefer**, Jeremiah Powers, Elise D. Murray, **Dr. Gerald Kobylski (G5), COL Diane M. Ryan, Dennis Kelly (G5), Dr. Michael D. Matthews**, and Richard M. Lerner. “Character in Context: Character Structure among United States Military Academy Cadets.” *Journal of Moral Education* (Online November 14, 2018): 1–26.

Ender, Morten G. (Dr.). “Leading Across Generations,” Invited chapter in *West Point Leadership*, edited by Daniel Smith, Jordon Swain, Donna Brazil, James Cornwell, Keven Britt, Andrew Bond, Nick Eslinger, and Andrew Eljdid. New York: Rowan Technology Solutions, 2018.

Ender, Morten G. (Dr.). “Live from the Front: Military Families and Television Coverage of the War in Iraq.” Paper presentation at the American Sociological Association meetings, Philadelphia, Pennsylvania, August 2018.

Mantua, Janna, Antigone Grillakis, Sanaa H. Mahfouz, Maura R. Taylor, Allison J. Brager, **MAJ Angela M. Yarnell**, Thomas J. Balkin, Vincent F. Capaldi, and Guido Simonelli. “A Systematic Review and Meta-Analysis of Sleep Architecture and Chronic Traumatic Brain Injury.” *Sleep Medicine Reviews* 41 (October 1, 2018): 61–77.

Matthews, Michael (Dr.). “Character Development for Children.” Workshop presented at the Military Child Education Coalition (MCEC) National Training Seminar, Washington, D.C., July 22, 2018.

———. “Executive Resilience.” Presented at the Air Force Senior Leader Orientation Course, Joint Base Andrews, Maryland, July 27, 2018.

———. “Ten Years of Military Positive Psychology: A Look Back and a Look Forward.” Keynote presented at the Swiss International Positive Psychology Association, Lucerne, Switzerland, November 30, 2018.

Matthews, Michael (Dr.), and MAJ Andrew Bond. “Seminar on Military Leadership.” Presented at the Military Child Education Coalition (MCEC) National Training Seminar, Washington, D.C., July 22, 2018.

Matthews, Matthew (Dr.), and Dr. Callina. “Distinguished Leader Presentation on How the Army and West Point Develop Character.” Presented at the Military Child Education Coalition (MCEC) National Training Seminar, Washington, D.C., July 22, 2018.

McClellan, Elizabeth J., Sean R. Martin, Kyle J. Emich, and **COL Todd Woodruff.** “The Social Consequences of Voice: An Examination of Voice Type and Gender on Status and Subsequent Leader Emergence.” *Academy of Management Journal* 61: 5 (October 2018): 1869–1891.

Simonelli, Guido, Janna Mantua, Mary Gad, Maria St Pierre, Lonique Moore, **MAJ Angela M. Yarnell**, Phillip J. Quartana, et al. “Sleep Extension Reduces Pain Sensitivity.” *Sleep Medicine* 54 (November 8, 2018): 172–176.

Swain, Jordon E. (LTC). “Effects of Leader Humility on the Performance of Virtual Groups.” *Journal of Leadership Studies* 12: 1 (2018): 21–37.

Swain, Jordon E. (LTC), and Dr. Lisa Korenman. “In Their Humble Opinion: How Expressions of Humility Affect Superiors’ Assessments of Leadership Potential in the US Army.” *Military Psychology* 30:6 (November 2, 2018): 507–527.

Swain, Jordon E. (LTC), COL Raymond Kimball and MAJ Arnold J. Steinlage. “Mentoring for leaders of character.” In *West Point Leadership*, edited by Daniel Smith, Jordon Swain, Donna Brazil, James Cornwell, Keven Britt, Andrew Bond, Nick Eslinger, and Andrew Eljdid. New York: Rowan Technology Solutions, 2018.

Swain, Jordon E. (LTC), James Tuite, and **MAJ John Borland.** “Office Space: A Leadership Challenge.” *The CASE Journal* 14:5 (September 10, 2018): 593–603.

Swain, Jordon E. (LTC), and Dr. Lissa Young. “General Patton and Lieutenant Winters: A Contrast in Leadership.” *The CASE Journal* 14:5 (September 10, 2018): 541–549.

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

Armstrong, Matthew (LTC), LTC Geoff Bull, Jeff Horner, and Dr. Antony Beris. “Mathematical Aspects of Modeling the Rheology of Complex Material.” Presented at the Society of Industrial and Applied Math (SIAM) Conference on Mathematical Aspects of Materials Science, Portland, Oregon, July 10, 2018.

Armstrong, Matthew (LTC), Jeffrey Horner, **CDT Michael Clark ’20, CDT Michael Deegan ’20, LTC Timothy Hill, CDT Charles Keith ’19, and CDT Lynne Mooradian ’20.** “Evaluating Rheological Models for Human Blood Using Steady State, Transient, and Oscillatory Shear Predictions.” *Rheologica Acta* 57: 3 (September 2018).

Armstrong, Matthew (LTC), LTC Corey James, and LTC April Miller. “Comparison of Global, Stochastic Optimization Algorithms with Toy Problems and Fitting Multi-Parameter Models to Dynamic Systems.” Presented at the Society of Industrial and Applied Math (SIAM) Annual Meeting, Portland, Oregon, July 10, 2018.

Armstrong, Matthew (LTC), Norman J. Wagner, and Dr. Antony Beris. “A Viscoelastic Modification to the Modified Delaware Thixotropic Model.” Presented at the 90th Society of Rheology Conference, Houston, Texas, October 14, 2018.

Armstrong, Matthew (LTC), Norman J. Wagner, Dr. Antony Beris, Jeffrey S. Horner, **LTC Timothy Hill, and CDT Charles Keith ’19.** “Contemporary Modeling and Analysis of Human Blood Rheology with Recently Developed Models, Experimental and Analysis Techniques.” Presented at the 90th Society of Rheology Conference, Houston, Texas, October 14, 2018.

Bahaghighat, H. Daniel (LTC), Chris E. Freye, Derrick V. Gough, Paige E. Sudol, and Robert E. Synovec. “Ultrafast Separations via Pulse Flow Valve Modulation to Enable High Peak Capacity Multidimensional Gas Chromatography.” *Journal of Chromatography A* 1573 (October 26, 2018): 115-124.

Bull, Geoffrey R. (LTC), Dr. Dawn E. Riegner, and MAJ Nate Kaminski (PANE). “Chemical Analysis of Synthetic Nuclear Melt Glass (Urban).” Presented at the American Chemical Society National Meeting, Boston, Massachusetts, August 19, 2018.

Bull, Geoffrey R. (LTC), Dr. Dawn Riegner, and 2LT Jordan Johnson ’18. “Chemical Analysis of Synthetic Nuclear Melt Glass (Urban).” Presented at the American Chemical Society 256th National Conference and Exposition, Boston, Massachusetts, August 20, 2018.

Burpo, F. John (COL), Dr. Alexander Mitropoulos, Dr. Enoch A. Nagelli, CDT Madeline Ryu ’19, and CDT Jesse Palmer ’19. “Gelatin Biotemplated Platinum Aerogels.” *MRS Advances* 3: 47–48 (September 2018): 2875–2880.

Burpo, F. John (COL), Dr. Enoch A. Nagelli, Lauren A. Morris, **Dr. Kamil Woronowicz, and Dr. Alexander N. Mitropoulos.** “Salt-Mediated Au-Cu Nanofoam and Au-Cu-Pd Porous Macrobeam Synthesis.” *Molecules*, Vol 23: 7 (July 2018): 1701.

Keith, Charles (CDT, ’19), and LTC Matthew Armstrong. “Multifaceted Blood Prediction Using the Bautista-Monero-Puig (BMP) Model.” Poster presented at the 90th Society of Rheology Conference, Houston, Texas, October 14, 2018.

Clark, Michael (CDT, ’20), and LTC Matthew Armstrong. “Multifaceted Blood Prediction Using the Blackwell-Ewoldt Thixo-Elasto-Visco (TEV) and Herschel-Bulkley/Stickel Models.” Poster presented at the 90th Society of Rheology Conference, Houston, Texas, October 14, 2018.

Clark, Michael (CDT, ’20), and LTC Matthew Armstrong, and Jeffrey S. Horner. “Multifaceted Blood Prediction Using Contemporary Thixotropic and Viscoelastic Models.” Poster presented at the 90th Society of Rheology Conference, Houston, Texas, October 14, 2018.

*Coffey, Carolyn, **LTC Andrew Pfluger,** Junko Munakata-Marr, and Linda Figueroa. “Nitrogen management for anaerobic pretreated wastewater.” Presented at the Reinventing the Nation’s Urban Water Infrastructure Annual Conference, Stanford University, California, May 2018.

*Coffey, Carolyn, **LTC Andrew Pfluger,** Junko Munakata-Marr, and Linda Figueroa. “Challenging the wastewater treatment paradigm: anaerobic primary coupled with concurrent partial nitrification and anammox.” Presented at the 15th Annual Rocky Mountain Section of the American Water Works Association/Rocky Mountain Water Environment Association Student Conference, May 2018.

Coffey, Carolyn, **LTC Andrew Pfluger,** Junko Munakata-Marr, and Linda Figueroa. “Treating anaerobic effluents: nitrogen removal from mainstream anaerobic wastewater treatment using partial nitrification and anammox.” Presented at the Joint Rocky Mountain Water Environment Association and Rocky Mountain Section of the American Water Works Association Annual Conference, Denver, Colorado, September 16-19, 2018.

Deegan, Michael (CDT, ’20), LTC Matthew Armstrong, and Jeffrey S. Horner. “Multifaceted Blood Prediction Using the Horner-Armstrong-Wagner-Beris Thixo-Elasto-Visco-Plastic (TEVP) Model.” Poster presented at the 90th Society of Rheology Conference, Houston, Texas, October 14, 2018.

Emdadi, Laleh, **LTC Chi Nguyen,** Zachary Dunbar, Dat T. Tran, and Ivan C. Lee. “Efficient Ammonia Synthesis Using Catalytic Membrane Reactors to Serve as a High Energy Density Storage Medium.” Poster presented at the ARL USMA Technical Symposium, Aberdeen Proving Ground, Maryland, October 2018.

***Eslinger, Melissa. (LTC)** “Applied Science & Supporting Our Warfighters.” Nominated Speaker at the DoD STEM Experience: Global Impact Discussion Group at the 56th National Junior Science and Humanities Symposium (JSHS), Maryland, May 3, 2018.

Ewers, Evan C., Sarah K. Anisowicz, Tomas M. Ferguson, Scott E. Seronello, **LTC Jason C. Barnhill,** Michael B. Lustik, Willie Agee, et al. “Antibiotic Resistance, Molecular Characterizations, and Clinical

Manifestations of Campylobacteriosis at a Military Medical Center in Hawaii from 2012–2016: A Retrospective Analysis.” *Scientific Reports* 8 (August 6, 2018).

Guruge, Charitha, Yannick P. Ouedraogo, **LTC Richard L. Comitz**, Jingxuan Ma, Attila Losonczy, and Nasri Nesnas. “Improved Synthesis of Caged Glutamate and Caging Each Functional Group.” *ACS Chemical Neuroscience* 9:11 (November 2018): 2713-2721.

Helton, Tyler (2LT, '18), LTC Matthew Armstrong, and Jeffrey S. Horner. “Mechanical Contour Mapping of Human Blood.” Presented at the 90th Society of Rheology Conference, Houston, Texas, October 14, 2018.

James, Corey (LTC), LTC Matthew Armstrong, LTC Geoffrey Bull, Dr. Andrew Biaglow, and Dr. Enoch Nagelli. “Chemical Engineering Lab for Seniors at the United States Military Academy.” Poster presented at the American Institute for Chemical Engineers (AIChE) Annual Meeting, Pittsburgh, Pennsylvania, October 29-November 2, 2018.

Kowalski, Eileen M. (Dr.), and COL Melinda Z. Kalainoff. “How changing discourse patterns in general chemistry classes changed our learning goals and exams.” Presented at the 2018 Biennial Conference on Chemical Education. South Bend, Indiana, August 2018.

Lucio, Daniel (CDT, '19), CDT Jesse Hudgins '19, Linda Figueroa, Junko Munakata-Marr, and **LTC Andrew Pfluger.** “Analysis of organic removal in an anaerobic baffled bioreactor for the treatment of domestic wastewater.” Poster presented at the American Institute for Chemical Engineers (AIChE) Annual Meeting, Pittsburgh, Pennsylvania, October 29-November 2, 2018.

Mahoney, Luther, Laleh Emdadi, Asher C. Leff, Dat. T. Tran, Wei Wu, Dongxia Lui, **LTC Chi Nguyen**, and Ivan C. Lee. “Conversion of Low-Energy Biomass to Energy Dense Hydrocarbons in Support of Logistic Operations.” Presented at the ARL USMA Technical Symposium, Aberdeen Proving Ground, Maryland, October 2018.

Marina Kovaliov, Devora Cohen-Karnic, Kevin A. Burrige, Dorian Mambelli, Samantha Sloane, Nicholas Daman, Chen Xu, Jared Guth, **Dr. J. Kenneth Wickiser**, Nestor Tomycz, Richard C. Page, Dominik Konkolewicz, and S. Averick. Grafting strategies for the synthesis of active DNase I polymer biohybrids. *European Polymer Journal* 107 (October 2018): 15-24.

Marbach, Delaney (CDT, '20), COL F. John Burpo, and Dr. Enoch A. Nagelli. “3D Carbon Nanomaterial/Platinum Microtube Composites for Oxygen Reduction Reaction Electrocatalysis in Fuel Cells.” Poster presented at the American Institute for Chemical Engineers (AIChE) Annual Meeting, Pittsburgh, Pennsylvania, October 29-November 2, 2018.

Milanesa, Gabrielle M. (CDT, '20), Dr. Alexander Mitropoulos, Dr. Kamil Woronowicz, COL F. John Burpo, and Dr. Enoch A. Nagelli. “Self-Assembly of Graphene/Noble Metal Nanotube Composite Electrodes for Fuel Cells and Supercapacitors.” Poster presented at the American Institute for Chemical Engineers (AIChE) Annual Meeting, Pittsburgh, Pennsylvania, October 29-November 2, 2018.

Miller, April (LTC), LTC Matthew Armstrong, and LTC Corey James. “Comparison of Global, Stochastic Optimization Algorithms with Toy Problems and Fitting Multi-parameter Models to Dynamic Systems”. Presented at the American Institute for Chemical Engineers (AIChE) Annual Meeting, Pittsburgh, Pennsylvania, October 29-November 2, 2018.

Mitropoulos, Alexander (Dr.), CDT Gabriela Milanesa '20, CDT Jenny Wang '20, COL F. John Burpo, Dr. Kamil Woronowicz, and Dr. Enoch Nagelli. “Self Assembly of Silk Fibroin/Metal Composite Nanomaterials.” Presented at the American Institute for Chemical Engineers (AIChE) Annual Meeting, Pittsburgh, Pennsylvania, October 29-November 2, 2018.

Nagelli, Enoch A. (Dr.), CDT Gabrielle Milanesa '20, COL F. John Burpo, Dr. Kamil Woronowicz, and Dr. Alexander Mitropoulos. “Template-Free Self-Assembly of 3D Graphene/Noble Metal Nanotube Composite Electrocatalysts for Oxygen Reduction Reaction in Fuel Cells.” Paper presented at the American Institute for Chemical Engineers (AIChE) Annual Meeting, Pittsburgh, Pennsylvania, October 29-November 2, 2018.

Nagelli, Enoch A. (Dr.), CDT An Vu '20, Dr. Kamil Woronowicz, COL F. John Burpo, and Dr. Alexander Mitropoulos. “Self-Assembly of 3D Graphene/Carbon Nanotube Electrodes Via Electrostatic Polyanion Coordination for Biosensor Applications.” Paper presented at the American Institute for Chemical Engineers (AIChE) Annual Meeting, Pittsburgh, Pennsylvania, October 29-November 2, 2018.

LTC Andrew R. Pfluger, Gary Vanzin, Junko Munakata-Marr, and Linda Figueroa. “An anaerobic hybrid bioreactor for biologically enhanced primary treatment of domestic wastewater under low temperatures.” *Environmental Science: Water Research & Technology* 4: 11 (November 2018), 1851-1866.

LTC Andrew R. Pfluger, Jennie Callahan, Jennifer Stokes-Draut, Dotti Ramey, Sonja Gagen, Linda Figueroa, and Junko Munakata-Marr. “Lifecycle comparison of mainstream anaerobic baffled reactor and conventional activated sludge systems for domestic wastewater treatment.” *Environmental Science & Technology* 52: 18 (September 2018), 10500-10510.

***LTC Andrew R. Pfluger**, Jeffrey Starke, Stephen Cospers, Junko Munakata-Marr, and Linda Figueroa. “Can Organic Waste Contribute to Energy Security?” *The Military Engineer* 110: 713 (March-April 2018), 62-63.

Vu, An (CDT, '20), Dr. Kamil Woronowicz, Dr. Alexander Mitropoulos, COL F. John Burpo, and Dr. Enoch A. Nagelli. "Self-Assembly of 3D Graphene/Carbon Nanotube Electrodes Via Poly(Acrylic) Acid/Nickel Complexing for Biosensor Applications." Poster presented at the American Institute for Chemical Engineers (AIChE) Annual Meeting, Pittsburgh, Pennsylvania, October 29-November 2, 2018.

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

Benson, Michael J. (COL), and Christopher J. Elkins. "Advanced Methods for Temperature Field Measurements in Complex Geometries." Paper presented at the 2018 Turbine Engine Technology Symposium, Dayton, Ohio, September 2018.

Benson, Michael J. (COL), Gawoon Shim, John Kelly Eaton, and Christopher J. Elkins. "3D-3C Mean Velocity Measurements Below the Building Height in an Urban Canopy Flow." Paper presented at the 71st Annual Meeting of the American Physical Society Division of Fluid Dynamics, Atlanta, Georgia, November 20, 2018.

Bluman, James E. (LTC), Madhu K Sridhar, and Chang-Kwon Kang. "Chordwise Wing Flexibility May Passively Stabilize Hovering Insects." *Journal Of The Royal Society, Interface* 15: 147 (October 10, 2018): 20180409.

Drennan, Joseph, Matthew Vest, Gabriela Barrera, Tyler Weaver, Logan Leahy, and **Dr. Rebecca Zifchock.** "Effects of Torso-Borne Load Redistribution on Comfort and Gait Mechanics." Presented at the 8th Meeting of the World Congress of Biomechanics, Dublin, Ireland, July 8, 2018.

Freisinger, Gregory (Dr.), Nathaniel Schlosser, Daniel Watson, Erin Florkewicz, and Donald Goss. "The Effect of Running Foot Strike Transition on Impulse per Kilometer." Presented at the 8th Meeting of the World Congress of Biomechanics, Dublin, Ireland, July 8, 2018.

*Helton, G.L., K. Cameron, M. Neary, J. Song, E.M. Miller, **Dr. Rebecca Zifchock,** A.N. Weart, and D.L. Goss. "Association Between Shoe Selection and Lower Extremity Injuries in United States Military Academy Cadets." Paper presented at the International Foot and Ankle Biomechanics Meeting, New York, New York, April 2018.

Linford, Patrick A. (MAJ), Lin Xu, Botao Huang, Yang Shao-Horn, and Carl V. Thompson. "Multi-Cell Thermogalvanic Systems for Harvesting Energy from Cyclic Temperature Changes." *Journal of Power Sources* 399 (September 30, 2018): 429-435.

Murphy, Patrick, Alex Smith, John Montgomery, Ann Spungen, and **Dr. Gregory Freisinger.** "Designing Modifications to a Powered Exoskeleton." Presented at the 8th Meeting of the World Congress of Biomechanics, Dublin, Ireland, July 8, 2018.

Novoselich, Brian J. (LTC), and David B. Knight. "Shared Leadership in Capstone Design Teams: Social Network Analysis." *Journal of Professional Issues in Engineering Education and Practice* 144: 4 (October 1, 2018): 04018006.

Pohly, Jeremy A., James L. Salmon, **LTC James E. Bluman,** Kabilan Nedunchezian, and Chang-kwon Kang. "Quasi-Steady versus Navier-Stokes Solutions of Flapping Wing Aerodynamics." *Fluids* 3: 4 (December 2018): 81.

Siegel, Noah W. (2LT, '18), 2LT Aaron P. Schlenker '18, 2LT Kevin D. Sullivan '18, 2LT Isaiah L. Valdez '18, 2LT Chase P. Snow '17, COL Michael J. Benson, COL Bret P. Van Poppel, Christopher J. Elkins, and Gregory P. Rodebaugh. "An Experimental Setup to Characterize Boundary Layer Asymmetry on a Spinning Projectile Using Magnetic Resonance Velocimetry." Paper presented at the ASME 2018 International Mechanical Engineering Congress and Expo, Pittsburgh, Pennsylvania, November 2018.

*Song, J., K. Choe, M. Neary, **Dr. Rebecca Zifchock,** K. Cameron, M. Trepal, M. Hannan, and H. Hillstrom. "Comprehensive Biomechanical Characterization of Feet in USMA Cadets: Comparison across Race, Gender, Arch Flexibility, and Foot Type." *Gait and Posture* 65 (February 2018): 175-180.

Talbott, Ruth, **Dr. Rebecca Zifchock,** Roderick Wilson, and William Blackmon. "Examination of the Linearity and Eversion/Inversion Symmetry of Torsional Stiffness in Footwear." Presented at the 8th Meeting of the World Congress of Biomechanics, Dublin, Ireland, July 8, 2018.

Department of Electrical Engineering and Computer Science COL James Raftery, Department Head

Ahmed, Asif, Hao Yang, Jacob M. Rothenberg, **LTC Brian Souhan,** Zhao Wang, Nathan C. Abrams, **LTC Kirk A. Ingold,** et al. "Coherent-Perfect-Absorption-Based DPSK Demodulator for Silicon Photonics." In *Proceedings of the 31st Annual Conference of the IEEE Photonics Society (IPC),* Reston, Virginia (October 2018): 1-2.

Ahmed, Asif, Hao Yang, Jacob M. Rothenberg, **LTC Brian Souhan**, Zhao Wang, Nathan C. Abrams, Xiang Meng, **LTC Kirk A. Ingold**, et al. "Differential Phase-Shift-Keying Demodulation by Coherent Perfect Absorption in Silicon Photonics." *Optics Letters* 43: 16 (August 2018): 4061–4064.

Born, William, and **LTC Christopher J. Lowrance**. "Smoother Robot Control from Convolutional Neural Networks Using Fuzzy Logic." Paper presented at the 17th IEEE International Conference on Machine Learning and Applications (ICMLA), Orlando, Florida, December 2018.

*Campbell, Sawyer D., **MAJ Danny Zhu**, Jogender Nagar, Ronald Jenkins, John Easum, Douglas Werner, and Pingjuan Werner. "Inverse design of engineered materials for extreme optical devices." In *Proceedings of the 2018 International Applied Computational Electromagnetics Society Symposium (ACES)*, Denver, Colorado, March 2018.

*Dessalene, Eadom, **LTC Christopher Korpela**, and Daniel Lofaro, "Push Grasping with Humanoid Hands," Paper presented at the 15th International Conference on Ubiquitous Robots (UR 2018), Honolulu, Hawaii, June 2018.

Drakontaidis, Spencer (2LT, '18), **2LT Michael Stanchi '18**, **2LT Gabriel Glazer '18**, **MAJ Jason Hussey**, **Dr. Aaron St. Leger**, and **Dr. Suzanne J. Matthews**. "Towards Energy-Proportional Anomaly Detection in the Smart Grid." Paper presented at the IEEE High Performance Extreme Computing Conference (HPEC '18), Boston, Massachusetts, September 2018.

Grazier, Kevin R. (Dr.), Julie C. Castillo-Rogez, and Jonathan Horner. "It's complicated: a big data approach to exploring planetesimal evolution in the presence of Jovian planets." *The Astronomical Journal*, 156: 5 (October 2018): 232.

*Gregory, M. D., J. A. Bossard, Z. C. P. O. Morgan, C. S. Cicero, J. A. Easum, J. D. Binion, **MAJ Danny Z. Zhu**, et al. "A Low Cost and Highly Efficient Metamaterial Reflector Antenna." *IEEE Transactions on Antennas and Propagation* 66: 3 (March 2018): 1545–1548.

Harvie, David P. (LTC), **LTC Keith E. Major**, and **LTC Tanya Estes**. "Use of Commercial Online Training to Augment Programming Language Education." Paper presented at the 19th Annual SIG Conference on Information Technology Education (SIGITE '18). Fort Lauderdale, Florida, October 2018.

Harvie, David P. (LTC), **LTC Tanya Estes**, and **CPT Michael Kranch**. "Crafting a Foundation for Computing Majors," Paper presented at the 19th Annual SIG Conference on Information Technology Education (SIGITE '18). Fort Lauderdale, Florida, October 2018.

Korpela, Christopher (LTC), and **LTC Michael Saxon**. "Ethics and Emerging Technologies: Teaching Philosophy with Robotic Weapons System." In *Proceedings of the International Conference on Pattern Recognition and Artificial Intelligence (PRAI 2018)*, Union, New Jersey (August 2018): 127–132.

Korpela, Christopher (LTC), MAJ Amber Walker (DARPA), and **Pratheek Manjunath**. "Wearable Technologies for Enhanced Soldier Situational Awareness." Paper presented at the 2nd International Symposium of Intelligent Unmanned Systems on Artificial Intelligence (SIUSAI 2018), Las Vegas, Nevada, August 28, 2018. Awarded "Best Oral Presentation" and "Best Paper".

***Lowrance, Christopher (LTC) and Dominic Larkin**. "Teaching Embedded Systems with a Robotics Theme using ROS on the Raspberry Pi." In *Proceedings of 2018 ASEE Northeast Section Conference*, University of Hartford, Connecticut (April 2018).

***Lowrance, Christopher (LTC)**, **Dr. John Rogers**, and **Dominic Larkin**. "Reaching Higher Order Thinking in Mechatronics using a Controller Comparative Study" In *Proceedings of 2018 ASEE Northeast Section Conference*, University of Hartford, Connecticut (April 2018).

Lowrance, Christopher J (LTC), **Dr. Dominic M. Larkin**, and **MAJ Sang M. Yim**. "Effect of Crowd Composition on the Wisdom of Artificial Crowds Metaheuristic." Presented at the 12th International Conference on Combinatorial Optimization and Applications (COCOA 2018), Atlanta, Georgia, December 2018. In *Combinatorial Optimization and Applications*, edited by Donghyun Kim, R. N. Uma, and Alexander Zelikovskiy, 539–551. Cham: Springer International Publishing, 2018.

Matthews, Suzanne J. (Dr.). "Harnessing single board computers for military data analytics" in *Military Applications of Data Analytics*, edited by Kevin Huggins, 63-77. Boca Raton: CRC Press, Taylor & Francis, October 2018.

Raftery, James (COL), **CPT Joshua Groen** and **LTC. Kirk A. Ingold**. "Beam Quality Factor Analysis for Coherently-Coupled Vertically-Emitting Laser Arrays." Paper Presented at the 26th International Semiconductor Laser Conference (ISLC), Santa Fe, New Mexico, September 2018.

Schirmer, Sophie, Edmond Jonckheere, **MAJ Sean O'Neil**, and Frank Langbein. "Robustness of Energy Landscape Control for Spin Networks Under Decoherence." Paper presented at the 2018 IEEE Conference on Decision and Control (CDC), Miami Beach, Florida, December 17-19, 2018.

Stark, Madison (2LT, '18), **2LT Caleb Clay '18**, **Dr. Aaron St. Leger**, and **MAJ Nicholas Barry**. "Emulation of Anomalies for Wide-Area Monitoring, Protection and Control Systems Development." Paper

presented at the Clemson University IEEE Power Systems Conference, Charleston, South Carolina, September 2018.

***Stark, Madison (CDT, '18), Dr. Aaron St. Leger, and MAJ Nicholas Barry.** "Tactical generator monitoring system." In *Proceedings of the 2018 IEEE Texas Power and Energy Conference (TPEC)*, College Station, Texas (February 2018).

Swenson, Eric R., **MAJ Nathaniel D. Bastian** & Harriet B. Nembhard. "Healthcare market segmentation and data mining: A systematic review." *Health Marketing Quarterly* 35: 3 (November 2018): 186-208.

Thomas, Charu, Theodore Panagiotopoulos, Pramod Kotipalli, **LTC Malcolm Haynes**, and Thad Starner. "RF-pick: comparing order picking using a HUD with wearable RFID verification to traditional pick methods." In *Proceedings of the 2018 ACM International Symposium on Wearable Computers (SIWC 2018)*, Singapore (October 2018): 168-175.

Zhu, Danny Z. (MAJ), M. D. Gregory, P. L. Werner, and D. H. Werner. "Fabrication and Characterization of Multiband Polarization Independent 3-D-Printed Frequency Selective Structures With UltraWide Fields of View." *IEEE Transactions on Antennas and Propagation* 66:11 (November 2018): 6096–6105.

Department of English and Philosophy COL David Harper, Department Head

Barnes, David (COL). Invited talk, "Moral Injury and Just War," with Robert Meagher, Bard College and the Clemente Course in the Humanities, Bard College, September 2018.

*———. "AI and the Future of War." Presented at the European International Society for Military Ethics (Euro-ISME), Oslo, Norway, May 2018.

Brown, Derek (MAJ). "Performing Conversion." Paper presented at the Pacific Ancient and Modern Language Association (PAMLA) Conference, Bellingham, Washington, November 10, 2018.

Carnes, Thomas (CPT). "The Right to Exclude Immigrants Does Not Imply the Right to Exclude Newcomers by Birth." *Journal of Ethics and Social Philosophy* 14:1 (October 2018): 28-43.

———. "Historic Injustice, Collective Agency, and Compensatory Duties." Paper presented at the Southwest Philosophical Society Conference, University of Colorado, Denver, Colorado, November 10, 2018.

Flurry, Jared (MAJ). "'This war has changed everything': Weaponized Sex and EnTropic Ideoscapes in de Boissière's Rum and Coca Cola." Paper presented at the West Indian Literature (WIL) Conference, University of Miami, Miami, Florida, October 5, 2018.

Grant, Ulysses S. *The Annotated Memoirs of Ulysses S. Grant*. Edited by **Dr. Elizabeth D. Samet**. New York: Liveright, December 2018.

Harper, David (COL). "'Forgive Me Awful Poet': The Redemption and Rewriting of Paradise Lost." Presented at the York's interdisciplinary Centre for Renaissance and Early Modern Studies Research Seminar, University of York, United Kingdom, October 4, 2018.

———. "Copyright, Abridgment, and Reading in the Restoration & Eighteenth Century," Paper presented at the Portable Heritage: Institute for Digital Archaeology Annual Conference. Magdalen College, Oxford, United Kingdom. December 2018.

Meagher, Robert, **COL David Barnes**, and Mark Santow. "Discussion of Herakles Gone Mad: Moral Injury and Just War." Presented at the Bard College and the Clemente Course in the Humanities, Bard College, Annandale-On-Hudson, New York, September 14, 2018.

Parsons, Scott (MAJ). "Character by Design: Teaching Ethics through Creativity." Paper presented at the Educating Character through the Arts Conference, University of Birmingham, United Kingdom, July 20, 2018.

———. "How to Develop Character and Virtue in the United States Army." Paper presented at the Philosophy of Education Society of North America (PESNA) Inaugural Conference, University of St. Mary of the Lake, Mundelein, Illinois, October 27, 2018.

Query, Patrick (Dr.). "The Aran Islands and the Crisis of Representation." Presented at the 20th Annual Modernist Studies Association Conference, Columbus, Ohio, November 8, 2018.

———. "Eliot and Radical Hope, 1939." Presented at the 39th Annual Meeting of the T.S. Eliot Society, Atlanta, Georgia, September 21, 2018.

Vick, Michael (LTC). "Caliphate." *Prairie Ink, A Literary Journal* 9 (Fall 2018).

Williams, Hannah (CPT). "Naming the Dead: Literary Memorials in the War Literature of Bierce, Graves, and Vonnegut." Paper presented at the War, Literature, and the Arts Conference on Representing and Remembering War, United States Air Force Academy, Colorado Springs, Colorado, September 19, 2018.

Department of Foreign Languages
COL Gregory Ebner, Department Head

- Daniel, James (CPT).** “The Democratization of China’s One-Party Socialist State: A Political Impossibility or an Ineluctable Outcome?” In *Democracy and Democratization: Challenges and Opportunities*, edited by Dr. Patrick Campbell, Dr. Thomas Sherlock, and MAJ Lukas Berg. Cornwall-on-Hudson, New York: Sloan, 2018.
- Gagnon, Mark (COL).** “Reeducating Anti-Nazi Resistance in G.W. Pabst’s It Happened on July 20th (1955) and Falk Harnack’s The Plot to Assassinate Hitler (1955).” *Quarterly Review of Film and Video* 35: 5 (December 2018): 506–26.
- Gurrola, George (CPT).** “China-Latin America Arms Sales: Antagonizing the United States in the Western Hemisphere?” *Military Review* (July-August 2018): 123-132.
- Pendergast, John (Dr.).** “Bulgakov and Tchaikovsky: Themes and Variations.” *Slavjanskije chteniya [Slavic Readings] XII* (Spring 2018).
- Pendergast, John (Dr.).** “The Maid of the Highlands: Joan of Arc Reflected in West Point Iconography.” *Hudson River Valley Review* 35:1 (Autumn 2018): 56-63.

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

- Dacunto, Phil (COL).** “Quantifying the Error of a Low-Cost Particle Monitor: Common Indoor Residential Aerosols.” Presented at the 15th Conference of Indoor Air Quality & Climate (Indoor Air 2018), Philadelphia, Pennsylvania, July 23, 2018.
- Oxendine, Chris (LTC), and LTC William Wright.** “Introducing GIS to Peruvian University Students: ‘Mapping Peru with Drones.’” Presented at the 2018 Esri Education Summit, San Diego, California, July 7, 2018.
- Ware, Jared L. (LTC).** “Evaluating Online and Traditional Learning Environments Using Cartographic Generalization Techniques.” *Cartographica: The International Journal for Geographic Information and Geovisualization* 53: 2, Summer 2018 (July 25, 2018): 107-114.

Department of History
COL Ty Seidule, Department Head

- Bucher, Greta (Dr.).** “Doctors Performing as Spies: Soviet Physicians and Abortion.” Paper presented at the Association for Slavic, East European & Eurasian Studies Conference, Boston, Massachusetts, December 7, 2018.
- Frey, David (Dr.).** “Can Atrocity Prevention Contribute to the Future of the Human Rights Initiative?” Presented at the SOUTHCOM’s Human Rights Initiative – the Way Ahead Workshop, Miami, Florida, July 17, 2018.
- . “Educating the Military...and Others. Building the Basis for Effective Atrocity Prevention.” In *Teaching about Genocide: Insights and Advice from Secondary Teachers and Professors, Volume 2*, edited by Samuel Totten, 159–68. Lanham, Maryland: Rowman & Littlefield, 2018.
- . “Leadership Lessons from the Holocaust.” Presented at the Museum of Jewish Heritage, New York, August 2018.
- Geheran, Michael (Dr.).** “The Fatal Attraction of National Socialism: Ordinary Germans and the Rise of Hitler.” Keynote presented at the Teachers’ Symposium on Designing Curriculum Based on Original Documents and Artifacts, International Museum of World War II, Natick, Massachusetts, July 11, 2018.
- . “Remasculinizing the Shirker: The Jewish Frontkämpfer under Hitler.” *Central European History* 51: 3 (September 19, 2018), 440–465.
- . Editor of *Beyond Inclusion and Exclusion: Jewish Experiences of the First World War in Central Europe*, co-edited with Jason Crouthamel, Tim Grady, and Julia Barbara Köhne. New York: Berghahn Books, November 2018.
- . “Rethinking Jewish Front Experiences.” In *Beyond Inclusion and Exclusion: Jewish Experiences of the First World War in Central Europe*, edited by Jason Crouthamel, Michael Geheran, Tim Grady, and Julia Köhne, 145-192. New York: Berghahn Books, November 2018.
- *Geheran, Michael (Dr.).** Review of *A Deadly Legacy: German Jews and the Great War*, by Tim Grady. *German Studies Review* 2 (May 2018): 410-412.
- Gibby, Bryan R. (COL).** “Fire and Maneuver: The 2nd Infantry Division’s Assault on Korea’s ‘Punchbowl,’ August–October 1951.” In *Bringing Order to Chaos*, edited by Peter J. Schifferle, Volume 2, 23–44. Historical Case Studies of Combined Arms Maneuver in Large-Scale Combat Operations. Fort Leavenworth, Kansas: Army University Press, September 2018.

Kiser, Mike (MAJ). “Isolate, Encircle, and Destroy: Chinese Operational Maneuver during the First and Second Phase Offensive (October–December 1950).” In *Bringing Order to Chaos*, edited by Peter J. Schifferle, Volume 2, 45–56. Historical Case Studies of Combined Arms Maneuver in Large-Scale Combat Operations. Fort Leavenworth, Kansas: Army University Press, September 2018.

Kroeger, David (CPT). Review of *Thunder in the Mountains: Chief Joseph, Oliver Otis Howard, and the Nez Perce War*, by Daniel J. Sharfstein. *Journal of Military History* 82:3 (July 2018).

Rafuse, Ethan (Dr.). Review of *Practical Liberators: Union Officers in the Western Theater During the Civil War*, by Kristopher A. Teters. *America’s Civil War* (November 2018).

Rogers, Clifford (Dr.). “Medieval Strategy and the Economics of Conquest.” *Journal of Military History* 82:3 (July 2018): 709–738.

———. “Strategy and Strategic Planning in Medieval Warfare,” Invited Speaker at the Gunther E. Rothenberg Seminar in Military History, High Point, North Carolina, November 2018.

———. Review of *To Win and Lose a Medieval Battle: Nájera (April 3, 1367), A Pyrrhic Victory for the Black Prince*, by L. J. Andrew Villalon and Donald J. Kagay. *Renaissance Quarterly* 71:4 (Winter 2018), 1502–1504.

Villanueva, James (CPT). “Field Artillery and Flying Columns: Combined Arms Maneuver in the Advance on and Seizure of Manila, 1945.” In *Bringing Order to Chaos*, edited by Peter J. Schifferle, Volume 2, 127–144. Historical Case Studies of Combined Arms Maneuver in Large-Scale Combat Operations. Fort Leavenworth, Kansas: Army University Press, September 2018.

Yoshitani, Gail (COL). “Principled Realism in the Reagan Administration,” in Policy Roundtable: Does Reagan’s Foreign Policy Legacy Live On? *Texas National Security Review*, October 9, 2018.

Department of Law COL David Wallace, Department Head

Barnsby, Robert (J.D.) (ACI). “Cyber Sovereignty.” Panel moderator at the International Conference on Cyber Conflict (CyCon), Washington, D.C., November 14, 2018.

———. “Intelligence and Cyber Law.” Presented at the Military Operations Workshop, West Point, New York, August 2, 2018.

Ford, Christopher M., and **LTC Winston S. Williams**, eds. *Complex Battlespaces: The Law of Armed Conflict and the Dynamics of Modern Warfare*. Vol. 1. Oxford University Press, 2018.

Lawless, Robert (CPT). “Military Necessity and Legal Permission in the Law of Armed Conflict.” Presented at the Lieber Institute for Law and Land Warfare’s Workshop on Necessity & Proportionality in International Peace and Security Law, West Point, New York, October 2018.

Reeves, Shane (LTC). “A Discussion on Cyber Warfare and International Law.” Keynote presented at the Cyber Security Summit, University of California-Davis School of Law, October 16, 2018.

———. “Air Power: Uses, Effectiveness and Limitations in the Campaign against ISIS; Law of Targeting and Its Application in the Aerial Campaign against ISIS.” Panelist at the Law of Armed Conflict and Military Operations International Research Network Launch Conference on the Rise and Fall of ISIS, Amsterdam, Netherlands, September 26, 2018.

———. “International Rules of Engagement for Cyber Warfare.” Panelist at the 5th Journal for Law and Cyber Warfare Symposium, New York University School of Law, New York, October 18, 2018.

———. “Operation Inherent Resolve and the Law Relating to Self-Defence, Russian and Iranian Intervention in Syria and Turkish Intervention against Syrian Kurds and the International Law on the Use of Force.” Panel Commentator at the Law of Armed Conflict and Military Operations International Research Network Launch Conference on the Rise and Fall of ISIS, Amsterdam, Netherlands, September 26, 2018.

———. “The Law of Targeting and Its Application in the Aerial Campaign against ISIS.” Panelist at the Law of Armed Conflict and Military Operations International Research Network Launch Conference on the Rise and Fall of ISIS, Amsterdam, Netherlands, September 26, 2018.

Wallace, David A. (COL), and LTC Mark Visger. “The Use of Weaponized ‘Honeypots’ under the Customary International Law of State Responsibility.” *The Cyber Defense Review* 3:2 (Summer 2018): 33–42.

Wallace, David (COL), LTC Shane Reeves, and MAJ Trent Powell (Former D/Law). “Revisiting Belligerent Reprisals in the Age of Cyber.” *Marquette Law Review* 102: 1 (Fall 2018): 81–110.

Department of Mathematical Sciences
COL Tina Hartley, Department Head

Allen, Brian (Dr.). “Stability of the PMT and RPI for Asymptotically Hyperbolic Manifolds Foliated by IMCF.” *Journal of Mathematical Physics* 59: 8 (August 1, 2018): 082501.

Arney, Chris (Dr.), LTC Natalie Vanatta (ACI), and Dr. Matthew Sobieski (ACI). “Network Modeling and Analysis of Data and Relationships: Developing Cyber and Complexity Science.” In *Military Applications of Data Analytics*, edited by Kevin Huggins, 29–45. Boca Raton, Florida: CRC Press, October 2018.

Blyman, Kayla (Dr.), Dr. Lisa Bromberg, and LTC Kristin Arney. “How (NOT) to Make Discovery-Learning Assessment.” Presented at the MAA MathFest, Denver, Colorado, August 7, 2018.

Bromberg, Lisa (Dr.), Dr. Kayla Blyman, and LTC Kristin Arney. “Transforming Mathematics Assessments to Drive Better Learning.” Presented at the MAA MathFest, Denver, Colorado, August 7, 2018.

Cummiskey, Kevin (LTC), Christine Choirat, Lucas Henneman, Chanmin Kim, and Corwin Zigler. “A Data-Driven Approach to Source-Receptor Mapping of Power Plant Emissions to Exposed Populations.” Presented at the Joint Statistical Meetings, Vancouver, Canada, August 2, 2018.

Garrett, Michael (CDT, '18), CPT Patrick Kuiper, MAJ Karoline Hood, and MAJ Dusty Turner. “Leveraging Mutual Information to Generate Domain Specific Lexicons*.” Presented at the International Conference on Social Computing, Behavioral-Cultural Modeling & Prediction and Behaviour Representation in Modeling and Simulation, George Washington University, Washington, D.C., July 10, 2018.

Goethals, Paul (COL), and Natalie Scala. “Modeling in Cyberspace: Accounting for the Human Dimension,” Presented at the Annual INFORMS Conference, Phoenix, Arizona, November 4-7, 2018.

Hannon, Bridget A., **Dr. Diana M. Thomas,** Cynthia Siu, and David B. Allison. “The Claim That Effectiveness Has Been Demonstrated in the Parenting, Eating and Activity for Child Health (PEACH) Childhood Obesity Intervention Is Unsubstantiated by the Data.” *British Journal of Nutrition* 120: 8 (October 28, 2018): 958–959.

Heymsfield, S. B., C. M. Peterson, B. Bourgeois, **Dr. Diana M. Thomas,** D. Gallagher, B. Strauss, M. J. Müller, and A. Bosy-Westphal. “Human Energy Expenditure: Advances in Organ-Tissue Prediction Models.” *Obesity Reviews* 19: 9 (September 1, 2018): 1177–1188.

Hromadka II, Theodore V. (Dr.), Colin Bloor, and Prasada Rao. “Resolution of the Computational Diffusion Hydrodynamic Model into Partial Differential Equation Form.” *Journal of Water Resource and Protection* 10: 12 (December 28, 2018): 1175–1184.

Hromadka II, Theodore V. (Dr.), P. Rao, and CPT Tyson H. Walsh. “Assessment of Uncertainty in Doppler Radar Estimated Precipitation” *American Institute of Hydrology Bulletin* 34: 2 (November 13, 2018): 4-7.

Kahathuduwa, Chanaka N., **Dr. Diana M. Thomas,** Cynthia Siu, and David B. Allison. “Unaccounted for Regression to the Mean Renders Conclusion of Article Titled ‘Uric Acid Lowering in Relation to HbA1c Reductions with the SGLT2 Inhibitor Tofogliflozin’ Unsubstantiated.” *Diabetes, Obesity and Metabolism* 20: 8 (August 1, 2018): 2039–2040.

***Lindquist, Joseph (COL).** “Best Practices in Public Perception Polling.” Presented at the Military Operations Research Society Special Session on Assessment of Named Operations, MacDill Air Force Base, Florida, February 26-March 2, 2018.

***Lindquist, Joseph (COL), and MAJ Dusty Turner.** “Best Practices for Eliciting Public Perceptions in Conflict Environments – Working Group Summary.” In *Proceedings of the Military Operations Research Society Special Session on Assessment of Named Operations*, MacDill Air Force Base, Florida, February 26-March 2, 2018.

Miller, Ryan (CPT). “Modeling with Differential Equations (MA153) Course Changes and Project Ideas.” Presented at the MAA MathFest, Denver, Colorado, August 7, 2018.

Morse, Steven (CPT), Dr. Brian Allen, and LTC Stanley Florkowski. “Uniting Differential Equations, Vector Calculus, and Population Ecology in a Case Study of the Isle Royale National Park.” Presented at MAA MathFest, Fostering Undergraduate Interdisciplinarity Session, Denver, Colorado, August 7, 2018.

Nelson, Russell (MAJ), 2LT Johnathan Cheatham '19, Dymrna Gallagher, **COL Kevin Bigelman (DPE), and Dr. Diana M. Thomas.** “Revisiting the United States Army Body Composition Standards: A Receiver Operating Characteristic Analysis.” *International Journal of Obesity* (Online September 2018).

Pleuss, James D. (MAJ). “The Impact of Academically Homogeneous Classrooms in Undergraduate Statistics Education.” Presented at the Joint Statistics Meetings, Vancouver, British Columbia, August 2018.

Pleuss, James D. (MAJ), J. Heier Stamm, and J. Ellis. “Using Simulated Annealing to Improve the Information Dissemination Network Structure of a Foreign Animal Disease Outbreak Response.” *Journal of Homeland Security and Emergency Management* 15: 3 (September 2018).

Plucker, Andrew (CPT), Dr. Diana M. Thomas, Nick Broskey, Corby K. Martin, Dale Schoeller, Robin Shook, Steven B. Heymsfield, James A. Levine, and Leanne A. Redman. “Adult Energy Requirements Predicted from Doubly Labeled Water.” *International Journal of Obesity* 42: 8 (August 2018): 1515–1523.

Roginski, Jonathan (LTC). “Teaching Network Science at Different Academic Levels.” Presented at the MAA MathFest, Denver, Colorado, August 7, 2018.

Scala, Natalie, and **COL Paul Goethals.** “A Risk Model for Voting Systems at Local Precincts,” Presented at the Annual INFORMS Conference, Phoenix, Arizona, November 4-7, 2018.

Thomas, Diana M. (Dr.), COL Krista Watts, LTC Jonathan Roginski, Corby K. Martin, Steven Heymsfield, Leanne M. Redman, and Dale A. Schoeller. “Misrepresentation of the Pennington Biomedical Research Center Weight Loss Predictor.” *The American Journal of Clinical Nutrition* 108: 4 (October 1, 2018): 898–901.

Thomas, Diana M. (Dr.), COL Krista Watts, Sara Friedman, and Dale A. Schoeller. “Modelling the Metabolism: Allometric Relationships between Total Daily Energy Expenditure, Body Mass, and Height.” *European Journal of Clinical Nutrition* (Online July 5, 2018).

Wilkins, Bryce (2LT, '17), and Dr. Theodore V. Hromadka II. “A New Advancement in the Complex Variable Boundary Element Method with a Potential Flow Application.” Presented at the West Point Quantum Computing Symposium, West Point, New York, November 1-2, 2018.

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

Capps, Jacob (MAJ), CPT William Meier, and COL Corey Gerving. “Developing a Scientific Writing Framework for Students in Introductory Physics.” Presented at the American Association of Physics Teachers (AAPT) Summer Conference, Washington, D.C., August 30, 2018.

Fekete, Paula (Dr.), and CDT Rachel Dodaro '19. “Research on Pseudospin -1 Charge Carriers in the a-T3 Lattice.” Poster presented at Donostia International Physics Center workshop, San Sebastian, Spain, July 16, 2018.

Gerving, Corey (COL). “Computational Exercises in Experimental Physics.” Presented at the American Association of Physics Teachers (AAPT) Summer Conference, Washington, D.C., August 30, 2018.

Kaminski, Nate (MAJ), LTC Geoffrey R. Bull (D/C&LS), Dr. Dawn E. Riegner (D/C&LS), R. Gilbreath, J. Alexander, M. James, and D. Zheng. “Development of Synthetic Nuclear Melt Glass Representative of an Urban Post Detonation Environment for Forensic Analysis.” Presented at the American Chemical Society National Meeting, Boston, Massachusetts, August 19, 2018.

Lanzerotti, Mary (Dr.), C.L. Cerny, M. Current, and R.K. Martin. “Quantifying Error Estimates as Functions of Signal-to-Noise Ratio in a Multi-Tier Weak Radio Signal Detection Process with N Simultaneous Signals.” Presented at the IEEE National Aerospace and Electronics Conference (NAECON), Dayton, Ohio, July 23, 2018.

Department of Social Sciences COL Suzanne Nielsen, Department Head

Berg, Lukas (MAJ, former D/SOSH). “The Last Stage of Perfection: America’s Politicized Officer Corps and Its Apolitical Ideal.” In *Democracy and Democratization: Challenges and Opportunities*, edited by Dr. Patrick Campbell, Dr. Thomas Sherlock, and MAJ Lukas Berg. Cornwall-on-Hudson, New York: Sloan, 2018.

Campbell, Patrick (Dr., former D/SOSH). “Introduction: Democracy and Democratization: Challenges and Opportunities.” In *Democracy and Democratization: Challenges and Opportunities*, edited by Dr. Patrick Campbell, Dr. Thomas Sherlock, and MAJ Lukas Berg. Cornwall-on-Hudson, New York: Sloan, 2018.

———. “Public Will Versus Public Interest: Should We Reform Our Presidential Selection System?” In *Democracy and Democratization: Challenges and Opportunities*, edited by Dr. Patrick Campbell, Dr. Thomas Sherlock, and MAJ Lukas Berg. Cornwall-on-Hudson, New York: Sloan, 2018.

Campbell, Patrick (Dr., former D/SOSH), Dr. Thomas Sherlock, and MAJ Lukas Berg (former D/SOSH). *Democracy and Democratization: Challenges and Opportunities.* Cornwall-on-Hudson, New York: Sloan, 2018.

Carter, Susan (Dr.). “Payday Loan Regulations.” Panelist at the Southern Finance Association, Asheville, North Carolina, November 2018.

Colas, Brandon (MAJ, former D/SOSH). “Democracy and Religious Conflict: Limits and Opportunities of American Civil Religion.” In *Democracy and Democratization: Challenges and Opportunities*, edited by Dr. Patrick Campbell, Dr. Thomas Sherlock, and MAJ Lukas Berg. Cornwall-on-Hudson, New York: Sloan, 2018.

- Deep, Alex (MAJ).** “Rouhani Might Be a Mullah, but He’s Our Mullah.” In *Democracy and Democratization: Challenges and Opportunities*, edited by Dr. Patrick Campbell, Dr. Thomas Sherlock, and MAJ Lukas Berg. Cornwall-on-Hudson, New York: Sloan, 2018.
- Dodwell, Brian.** “Understanding the Islamic State’s Relationship with its Wilayat: The Case of Wilayat Khurasan.” Presented at the International Institute for Counter-Terrorism’s annual international counterterrorism conference, Interdisciplinary Center (IDC) Herzliya, Israel, September 3-6, 2018.
- Foster, Dakota, and **Dr. Daniel Milton.** “Children at War: Foreign Child Recruits of the Islamic State.” *Combating Terrorism Center at West Point* 11:6 (July 2018).
- Freitas, Molly (Dr.)** “*Jesu Crista*: Symbol of a Just Future in Helena María Viramontes’s *Under the Feet of Jesus*.” *Soundings: An Interdisciplinary Journal* 101: 4 (Fall 2018), 360-383.
- Galui, Jason J. (LTC), and MAJ Sean McMahon.** “Personality and Process: An Analysis of National Security Decision Making.” Presented at the 2018 International Security Studies Section-International Studies Association, Purdue University, West Lafayette, Indiana, November 10, 2018.
- Gudgeon, Matthew (Dr.)** and Simon Trenkle. “The Speed of Earnings Responses to Taxation and the Role of Firm Labor Demand.” Presented at the University of British Columbia, Vancouver, Canada, September 19, 2018.
- Hughes, Keith** (former D/SOSH). “Social Media and Democracy Promotion: A Public Diplomacy Perspective.” In *Democracy and Democratization: Challenges and Opportunities*, edited by Dr. Patrick Campbell, Dr. Thomas Sherlock, and MAJ Lukas Berg. Cornwall-on-Hudson, New York: Sloan, 2018.
- Jadoon, Amira.** “Conflict Aggravation or Alleviation? A Cross-National Examination of US Military Aid’s Effect on Conflict Intensity With Insights From Pakistan.” Presented at the Peace Science Society International Conference, University of Texas, Austin, Texas, November 8, 2018.
- . “Persuasion and Predation: The Effects of U.S. Military Aid and International Development Aid on Civilian Killings.” *Studies in Conflict & Terrorism*, October 2018, 41: 10 (2018): 776–800.
- . “The Militant Landscape, Tactics & Pakistan’s War on Terror.” *Pakistan Politico*, September 12, 2018.
- Kofoed, Michael (Dr.),** Matthew D. Baird, Jennie Wenger, and Trey Miller. “For-Profit Higher Education Responsiveness to Price Shocks: An Investigation of Changes in Post 9-11 GI Bill Allowed Maximum Tuitions.” Presented at Brigham Young University, Provo, Utah, August 1, 2018.
- , “For-Profit Higher Education Responsiveness to Price Shocks: An Investigation of Changes in Post 9-11 GI Bill Allowed Maximum Tuitions.” Presented at Georgia State University, Atlanta, Georgia, September 17, 2018.
- , “For-Profit Higher Education Responsiveness to Price Shocks: An Investigation of Changes in Post 9-11 GI Bill Allowed Maximum Tuitions.” Presented at Vassar College, Poughkeepsie, New York, September 28, 2018.
- , “For-Profit Higher Education Responsiveness to Price Shocks: An Investigation of Changes in Post 9-11 GI Bill Allowed Maximum Tuitions.” Presented at the National Bureau of Economic Research-Economics of Education Fall Meetings, Cambridge, Massachusetts, November 1, 2018.
- Kofoed, Michael (Dr.),** Christopher Fawson. “A Friendly Welcome?: Charter School Entrance and Public School Competition on the Capital Margin.” Presented at the Southern Economic Association, Washington, D.C., November 20, 2018.
- Limbocker, Scott (Dr.).** “Why Do Bureaucrats Make Campaign Contributions to Presidential Candidates?: Evidence from 2004 to 2012.” *Presidential Studies Quarterly* 48: 4 (2018), 667-689.
- Limbocker, Scott (Dr.),** Michael Shepherd, and Hye Young You. “Executive Branch Revolving Door Lobbyists.” Paper presented at the Annual Meeting of the American Political Science Association, Boston, Massachusetts, September 2018.
- Limbocker, Scott (Dr.),** Kathleen Doherty and David Lewis. “Controlling Agency Choke Points: Presidents and Turnover in the Senior Executive Service.” Paper presented at the Annual Meeting of the American Political Science Association, Boston, Massachusetts, September 2018.
- Meese, Michael J., **COL Suzanne C. Nielsen, and Dr. Rachel M. Sondheimer,** eds. *American National Security*, 7th ed. Baltimore: Johns Hopkins University Press, September 2018.
- Milton, Daniel (Dr.).** “Down, but Not Out: An Updated Examination of the Islamic State’s Visual Propaganda.” West Point, New York: Combatting Terrorism Center, July 24, 2018.
- . “Pulling Back the Curtain: An Inside Look at the Islamic State’s Media Organization.” West Point, New York: Combatting Terrorism Center, August 28, 2018.

- Nielsen, Suzanne C. (COL).** Review of *Melvin Laird and the Post-Vietnam Military, 1969-1973*, by Richard A. Hunt. *H-Diplo | ISSF* (October 23, 2018): Review Essay 44.
- Parrish, Brandon (LTC, former D/SOSH).** “Democracy in Sub-Saharan Africa: Challenges and Opportunities.” In *Democracy and Democratization: Challenges and Opportunities*, edited by Dr. Patrick Campbell, Dr. Thomas Sherlock, and MAJ Lukas Berg. Cornwall-on-Hudson, New York: Sloan, 2018.
- Patterson, Richard (Dr., OEMA).** “Can Behavioral Tools Improve Online Student Outcomes? Experimental Evidence from a Massive Open Online Course.” *Journal of Economic Behavior and Organization* 153 (September 2018): 293-321.
- Patterson, Richard (Dr., OEMA), MAJ Aaron Feudo (OEMA), Nolan Pope, and Kareem Haggag.** “Attribution Bias in Major Decisions.” Presented at the 93rd Annual Conference of the Western Economic Association International, Vancouver, British Columbia, Canada, June 2018.
- Patterson, Richard (Dr., OEMA), MAJ Aaron Feudo (OEMA), and Nolan Pope.** “Timing is Everything: Evidence from College Major Decisions.” Presented at Brigham Young University, Utah, July 2018.
- , **MAJ Aaron Feudo (OEMA), and Nolan Pope.** “Timing is Everything: Evidence from College Major Decisions.” Presented at University of Pittsburgh, Pennsylvania, October 2018.
- , **MAJ Aaron Feudo (OEMA), and Nolan Pope.** “Timing is Everything: Evidence from College Major Decisions.” Presented at the Southern Economics Association 88th Annual Conference, Washington, D.C., November 20, 2018.
- Perlik, Kerney (MAJ).** “Geopolitical Manifestations of Identity and Development.” Panel Chair at the 34th Annual Council for the United States and Italy’s Young Leaders Conference, Bolzano, Italy, September 17, 2018.
- Person, Robert (Dr.).** “Gray Zone Tactics as Asymmetric Balancing.” Paper presented at the 2018 American Political Science Association Annual Meeting, Boston, Massachusetts, September 2018.
- *———. “Beyond Tactics: Russian Hybrid Balancing as Geopolitical Strategy.” Paper presented at the Association for the Study of Nationalities World Convention, New York City, New York, May 2018.
- Person, Robert (Dr.), and Dr. Aaron F. Brantly (ACI Fellow).** “The Ukrainian Orthodox Church Is Trying to Withdraw from Moscow’s Control. The Kremlin Is Not Happy.” *The Washington Post*, October 31, 2018, sec. Monkey Cage Analysis.
- . “Conflict Between the Ukrainian Orthodox Church and Kremlin Authority, Part I.” All of the Russias’ Blog, NYU Jordan Center, November 12, 2018.
- Rassler, Don.** “The Islamic State and Drones: Supply, Scale, and Future Threats.” West Point, New York: Combatting Terrorism Center, July 11, 2018.
- Robinson, G. Lee, Joseph Amoroso, Isaiah (Ike) Wilson, and **Dr. Richard M. Yon.** “Veterans and Bipartisanship.” *Armed Forces & Society* (Online November 11, 2018).
- Robinson, Michael A. (CPT).** “Danger Close: Military Politicization and Elite Credibility.” War on the Rocks, August 21, 2018.
- . “What the Mattis resignation tells us about how Trump is damaging the military’s credibility,” *The Washington Post*, December 21, 2018, sec. Monkey Cage Analysis.
- Rohn, John D. (MAJ).** “The Effectiveness of In-Class Quizzes on Student Performance.” Presented at the Southern Economics Association 88th Annual Conference, Washington, D.C., November 20, 2018.
- Silverstone, Scott A. (Dr.).** *From Hitler’s Germany to Saddam’s Iraq: The Enduring False Promise of Preventive War*. Lanham, Maryland: Rowman & Littlefield Publishers, December 2018.
- *Van Den Steen, Eric, and **MAJ Aaron Stark.** “Stealing Time: America’s Disruption of the Swiss Watch Industry.” Harvard Business School Case Study, February 13, 2018.
- Swisher, Ryan (MAJ), and Dr. Susan Carter.** “The Effect of Moving Away from Home on Job Success: Analysis using U.S. Army Data.” Presented at the 65th Annual North American Regional Science Council Conference, San Antonio, Texas, November 2018.
- Verardo, Elizabeth (MAJ).** “Political Radicalism: A Continual Challenge to Democracy.” In *Democracy and Democratization: Challenges and Opportunities*, edited by Dr. Patrick Campbell, Dr. Thomas Sherlock, and MAJ Lukas Berg. Cornwall-on-Hudson, New York: Sloan, 2018.
- Volberding, Peter, and **Dr. Jason Warner.** “The Uniqueness of Uranium: The Problematics of Statecraft in Niger.” *The Extractive Industries and Society* 5: 3 (July 1, 2018): 294–301.
- Walker, Duncan (CPT).** “Winning Peace with Tactical Economics: Violence, Governance, and Military Development Aid in Afghanistan.” Presented at the Western Economics Association International Conference, Vancouver, Canada, June 26, 2018.

———. “Army Captain Describes How to Make Tactical Economics More Effective” Interview with Tom Temin. *Federal Drive*. Podcast audio, 10:41. August 28, 2018.

———. “Winning Peace with Tactical Economics: Violence, Governance, and Military Development Aid in Afghanistan.” Presented at Texas Tech University, Texas, September 21, 2018.

Warner, Jason (Dr.), and Charlotte Hulme. “The Islamic State in Africa: Estimating Fighter Numbers Across the Continent.” *CTC Sentinel* 11:7 (August 2018).

Warner, Jason (Dr.), Ellen Chapin, and Hilary Matfess. “Suicide Squads: The Logic of Linked Suicide Bombings.” *Security Studies* (Published online September 6, 2018): 1–33.

Warner, Jason (Dr.). “Episode 15: Space Force Is Happening; The Future of ISIS in Africa; Charlottesville, One Year Later; and More.” *Defense One*. Podcast audio, 16:17-26:13. August 10, 2018.

Watson, Zach (CPT) and MAJ Brian Vaeni. “The Counterintuitive Impact of Anti-Access, Area Denial (A2AD) Technologies on the Security Dilemma.” Presented at the Northeast Political Science Association Annual Conference, Montreal, Canada, November 8, 2018.

Wisniewski, Isaac (MAJ). “Post-Soviet Russia: Democracy Out of Sight?” In *Democracy and Democratization: Challenges and Opportunities*, edited by Dr. Patrick Campbell, Dr. Thomas Sherlock, and MAJ Lukas Berg. Cornwall-on-Hudson, New York: Sloan, 2018.

Yon, Richard (Dr.) and Joseph Amoroso. “Can More Military Veteran Participation in Congress Defeat Partisan Gridlock?” Presented at the American Political Science Association Conference, Boston, Massachusetts, August-September 2018.

Department of Systems Engineering COL Robert Kewley, Department Head

Bares, Lee (2LT, '18), 2LT Daniel Davis '18, 2LT Daniel Min '18, 2LT Kenneth Rau '18, and COL Matthew Dabkowski. “Developing a Solution to the TRADOC Analysis Center’s Big Data Problem: A Big Data Opportunity.” *Industrial and Systems Engineering Review* 6: 2 (December 2018): 82-87.

Bieger, Joshua (2LT, '18), 2LT Jadalaine Ferrer '18, 2LT Dillon Riedlinger '18, 2LT William Xu '18, and Jeffrey Demarest.

“Simulating Army Rail Yard Operations at the Port of Bremerhaven.” *Industrial and Systems Engineering Review* 6: 2 (December 2018): 95-100.

Brick, Todd, LTC Michael Lanham, Andrew Kopeikin, Christopher Korpela, and COL Ricardo Morales. “Zero to Swarm: Integrating sUAS Swarming into a Multi-disciplinary Engineering Program.” Paper presented at the 2018 International Conference on Unmanned Aircraft Systems (ICUAS), Dallas, Texas, September 2018.

Byers, Justin (2LT, '18), 2LT Ryan Leemans '18, 2LT Stephanie McDermott '18, and Dr. Vikram Mittal. “Quantifying the Effects of Weapon Weight on Lethality through Holistic Modeling.” *Industrial and Systems Engineering Review* 6: 2 (December 2018): 75-81.

Dabkowski, Matthew (COL), Dr. Vikram Mittal, and Eugene Lesinski. “Modeling the Effects of a Cyber-Attack on the Tactical Edge.” Paper presented at the Simulation Innovation Workshop, Orlando, Florida, September 2018.

Enos, James (LTC), and Roshanak Nichiani. “Identifying the Elements of Real System Age.” Technical Presentation at the American Society for Engineering Management International Annual Conference, Coeur d’Alene, Idaho, October 2018.

Farr, John (Former D/Systems). “Assessing Graduate Programs in Engineering Management.” Panel Moderator at the American Society for Engineering Management International Annual Conference, Coeur d’Alene, Idaho, October 2018.

Farr, John (Former D/Systems), Tim Kotnour, Alice Squires, and Mario Beruvides. “Delivering and Assessing Off Campus Engineering Management Master’s Programs.” Technical Presentation presented at the American Society for Engineering Management International Annual Conference, Coeur d’Alene, Idaho, October 2018.

Farr, John (Former D/Systems), Tim Kotnour, and Catherine Vergopia. “Assessing Graduate Programs in Engineering Management.” Technical Presentation at the American Society for Engineering Management International Annual Conference, Coeur d’Alene, Idaho, October 2018.

Ferrer, Jadalaine (2LT, '18), and MAJ Jillian Wisniewski. “Modeling the Growth of Boko Haram Using System Dynamics.” *Industrial and Systems Engineering Review* 6: 2 (December 2018): 109-117.

Gibson, Hise (COL). “Multiple Team Membership, Turnover, and On-Time Delivery: Evidence from Construction Services.” Technical Presentation at the American Society for Engineering Management International Annual Conference, Coeur d’Alene, Idaho, October 2018.

Gillespie, Stephen (MAJ), and Alex MacCalman. "A Case Study in Developing an Intergrated Data and Model Management System for the Development of a Complex Engineered System." Paper presented at the IEEE Technology and Engineering Management Conference (TEMSCON), Evanston, Illinois, June-July 2018.

Grubaugh, Kameron (2LT, '18), 2LT Zachary Zimmerman '18, 2LT Nicholas McAfee '18, 2LT Emily McGowan '18, and COL Paul Evangelista. "Anomaly Detection and Accuracy Measurement for Categorical Data." *Industrial and Systems Engineering Review* 6: 2 (December 2018): 88-94.

Kumar, Sai (2LT, '18), and Dr. Vikram Mittal. "Analysis of Cyber Security Methodologies: A Direct Comparison of Current Versus Possible DoD Cyber Assets." *Industrial and Systems Engineering Review* 6: 2 (December 2018):101-108.

McDonald, Kenneth W. (Former D/Systems), **2LT Carissa Jenkins '18, 2LT Lindsay Kiernan '18, and 2LT Tanner Andrews '18.** "Munition Demilitarization: Maintenance Program Improvement." Technical Presentation at the American Society for Engineering Management International Annual Conference, Coeur d'Alene, Idaho, October 2018.

Mittal, Vikram (Dr.). "Design Paramaters for Small Engines based on Market Research." SAE Technical Paper 2018-01-1717, September 2018.

———. "Distribution of Knock Frequencies in Modern Engines Compared to Historical Data." SAE Technical Paper 2018-01-1666, September 2018.

———. "The Use of Stochastic Value Models to Create Technology Roadmaps." Paper presented at the IEEE Technology and Engineering Management Conference (TEMSCON), Evanston, Illinois, June-July 2018.

Mittal, Vikram (Dr.), COL Robert Kewley, and LTC Brett Lindberg. "Teaching Modeling to Engineers in an Undergraduate Simulation Course." I/ITSEC Paper 18101 presented at the Interservice/Industry Training, Simulation, and Education Conference. Orlando, Florida, November 2018.

Provaznik, Daniel (2LT, '18), and MAJ Jillian Wisniewski. "Modeling Diffusion of Information in an Increasingly Complex Digital Domain." *Industrial and Systems Engineering Review* 6: 2 (December 2018): 126-134.

Riedlinger, Dillon (2LT, '18), and MAJ Jillian Wisniewski. "Understanding Mass Killing in America: A System Dynamics Approach." *Industrial and Systems Engineering Review* 6: 2 (December 2018): 118-125.

Richards, John, **2LT Allan Baily '18, 2LT Bradley Gibson '18, 2LT John-Mark Macfarlane '18, 2LT Cory Hazelbaker '18,** Brian Rawhouser (Tobyhanna), and Iris Lyle (Tobyhanna). "Application of Lean Six Sigma to Reducing Repeated Handling of Material at the Tobyhanna Army Depot." Technical Presentation at the American Society for Engineering Management International Annual Conference, Coeur d'Alene, Idaho, October 2018.

***Ryan, Thomas, LTC James H. Schreiner, and MAJ Stephen E. Gillespie.** "Teaching Systems Thinking: A Case Study at the United States Military Academy." Paper presentation at 2018 Annual IEEE International Systems Conference (SysCon), Vancouver, British Columbia, April 2018.

Schreiner, James (LTC), Daniel Roman, Benjamin Coleman, Jon Browning, and Anders Frieberg. "Strategic Business Intelligence Framework: A Method of Analyzing Normative and Descriptive Data Signals." Technical Presentation at the American Society for Engineering Management International Annual Conference, Coeur d'Alene, Idaho, October 2018.

Shah, Hiral, Walter Nowocin, S. Jimmy Gandhi, and **John Farr** (former D/Systems). "Mapping of EMBOK Domains with EM Handbook." Technical Presentation at the American Society for Engineering Management International Annual Conference, Coeur d'Alene, Idaho, October 2018.

Song, Steven (MAJ). "A Systems Approach to the U.S. Army's Human Dimension Strategy." Technical Presentation at the American Society for Engineering Management International Annual Conference, Coeur d'Alene, Idaho, October 2018.

Wong, Ernest (former ACI), **MAJ James Comstock, and MAJ Steven Song.** "A Systems Framework to Characterize How to Improve Offensive Cyber Operations for Cyber Warfare." Technical Presentation at the American Society for Engineering Management International Annual Conference, Coeur d'Alene, Idaho, October 2018.

Wong, Ernest (former ACI), James Doukas, John Schannep, **MAJ Steven Song, and MAJ James Comstock.** "Advancing Cybersecurity from Medieval Castles to Strategic Deterrence: A Systems Approach to Cybersecurity." Technical Presentation at the American Society for Engineering Management International Annual Conference, Coeur d'Alene, Idaho, October 2018.

Wong, Ernest (former ACI), Andrzej Tomczyk, Melissa Ziegler, Brandon Cromwell, **MAJ James Comstock, and MAJ Steven Song.** "A Systems Framework to Integrate a Civilian Reserve Cyber Force for the US Army." Technical Presentation at the American Society for Engineering Management International Annual Conference, Coeur d'Alene, Idaho, October 2018.

Department of Military Instruction
COL Liam Collins, Department Head

- ***Amble, John, and MAJ John Spencer.** “Prepare the Army for Future Urban Battlefield.” *Army Magazine* 68: 6 (June 2018): 14–15.
- ***Beehner, Lionel M. (Dr.).** “Russia Is Trying to Limit Its Casualties in Syria. Here’s Why That Is Bad for Syrian Civilians.” *Washington Post*, March 28, 2018, sec. Monkey Cage Analysis.
- *———. “State-Building, Military Modernization and Cross-Border Ethnic Violence in Myanmar.” *Journal of Asian Security and International Affairs* 5: 1 (April 1, 2018): 1–30.
- . “A Means of First Resort: Explaining ‘Hot Pursuit’ in International Relations.” *Security Studies* 27: 3 (July 3, 2018): 379–409.
- . “War and Peace: A Book Review of Three Interdisciplinary Contributions to the Literature on Peace.” *The Journal of Politics* 80: 4 (August 23, 2018): e97–102.
- . “Wounded Bear Syndrome: Why Some Major Powers Fall More Violently Than Others.” Paper presented at the American Political Science Association, Boston, Massachusetts, September 2018.
- Beehner, Lionel M. (Dr.), COL Liam S. Collins, and Dr. Robert T. Person (D/SOSH).** “The Fog of Russian Information Warfare.” In *Perceptions Are Reality*, edited by Mark D. Vertuli and Bradley S. Loudon, Volume 7, 31–50. Historical Case Studies of Combined Arms Maneuver in Large-Scale Combat Operations. Fort Leavenworth, Kansas: Army University Press, September 2018.
- Beehner, Lionel M. (Dr.),** Steve Ferenzi, and John Chambers. “Achieving Victory beyond Violent Warfare.” *Army Magazine* 68: 9 (September 2018): 10–12.
- ***Beehner, Lionel M. (Dr.), and MAJ John Spencer.** “Even Realistic Videogames like Call of Duty Won’t Help Us Win Wars.” *Wired Magazine*, January 5, 2018.
- ***Collins, Liam (COL).** “A New Eastern Front: What the U.S. Army Must Learn From the War in Ukraine.” *Army Magazine* 68: 5 (May 2018): 48–49.
- . “Russia Gives Lessons in Electronic Warfare.” *Army Magazine* 68: 8 (August 2018): 18–19.
- . “Learning from Russia’s Information Offensives.” *Army Magazine* 68: 11 (November 2018): 30–31.
- . “Darth Vader’s Failed Counterinsurgency Strategy.” In *Strategy Strikes Back: How Star Wars Explains Modern Military Conflict*, edited by Max Brooks, John Amble, M. L. Cavanaugh, and Jaym Gates, 171–177. Lincoln: Potomac Books, 2018.
- Collins, Liam (COL), MAJ Jake Miraldi, and John Spencer.** “Using Digital Textbooks to Improve Student Learning: Lessons for Military Educators.” *Journal of Military Learning* 2: 2 (October 2018): 17–34.
- Cooke, Gordon (Dr.).** “The Future Battlefield: Science fiction becomes science fact” *Army AL&T* (July-September 2018): 66–67.
- Eldib, Claudia, and **John Spencer.** “Commentary: The missing link to preparing for military operations in megacities and dense urban areas.” *The Army Times*, July 20, 2018.
- . “Investing in understanding cities is investing in national security.” The Hill, August 6, 2018.
- Montcalm, Richard (MAJ).** “Three Imperatives for the New SFAB” *Army Magazine* 68: 7 (November 2018): 20–21.
- Spencer, John.** “The coming cyberbattle will be worse than people think.” Fifth Domain, July 8, 2018.
- . “How I Discovered Writing.” The Wavell Room, December 4, 2018. <https://wavellroom.com/2018/12/04/how-i-discovered-writing/>
- . “The Battle of Sadr City, 2008.” Paper presented at the War in the Global City Urban Warfare Conference, Warwick University, December 7, 2018.
- . “Why the Jedi Won Fights, Not Wars.” In *Strategy Strikes Back: How Star Wars Explains Modern Military Conflict*, edited by Max Brooks, John Amble, M. L. Cavanaugh, and Jaym Gates, 178–184. Lincoln: Potomac Books, 2018.
- Spencer, John, and John Amble.** “The Simulations Road to Real War.” *Army Magazine* 68: 9 (September 2018): 20–21.
- Spencer, John, and Dr. Lionel Beehner.** “Who will challenge and check the military now that Sen. John McCain is gone?” *USA Today*, August 29, 2018. Sec. Opinion.
- Wright, Jeffery S. (MAJ).** “The Kasserine Pass Battles: Learning to Employ Artillery Effectively in Large-Scale Combat Operations.” In *Lethal and Non-Lethal Fires*, edited by Thomas G. Bradbeer, Volume 3, 107–118. Historical Case Studies of Combined Arms Maneuver in Large-Scale Combat Operations. Fort Leavenworth, Kansas: Army University Press, September 2018.

Department of Physical Instruction
COL Nicholas Gist, Master of the Sword

- Bedard, Alexander J. (MAJ), COL Kevin A. Bigelman, Dr. Lynn R. Fielitz, Dr. Jeffrey D. Coelho, MAJ William B. Kobbe, Dr. Renard O. Barone, COL Nicholas H. Gist, and John E. Palmer.** “Gender Integration in Collegiate Combative Physical Education Classes.” *Women in Sport and Physical Activity Journal* 26: 2 (October 2018): 134-141.
- Fielitz, Lynn R. (Dr.), CPT Anita Phillips, COL Kevin A. Bigelman, and Jeffrey Hansen.** “Teachnology.” Presented at the New York State Alliance Health Physical Education Recreation and Dance Convention, Turning Stone, New York, November 2018.
- Hewit, Jennifer (Dr.), Dr. Daniel Jaffe, and MAJ Alexander Bedard.** “Teaching the Proper Push-up Position.” *Journal of Physical Education, Recreation & Dance* 89: 7 (September 2, 2018): 50-52.
- Hewit, Jennifer (Dr.), Dr. Daniel Jaffe, and MAJ Alexander Bedard.** “Does Upper Trapezius Activity Increase Substantially Over a 2-Minute Push-Up Bout?” *Research & Investigations in Sports Medicine* 4: 1 (September 10, 2018): 1-4.
- Hewit, Jennifer K. (Dr.), Dr. Daniel A. Jaffe, and Dr. Todd Crowder.** “A Comparison of Muscle Activation during the Pull-up and Three Alternative Pulling Exercises.” *Journal of Physical Fitness, Medicine & Treatment in Sports* 5: 4 (November 2, 2018): 1-7.
- Jaffe, Daniel A (Dr.), Dr. Jennifer Hewit, and Dr. Todd Crowder.** “Clinical Definition and Pathophysiology of Osteoporosis: A Brief Review.” *Journal of Physical Fitness, Medicine & Treatment in Sports* 5: 3 (October 17, 2018): 1-3.
- Jaffe, Daniel A (Dr.), Dr. Jennifer Hewit, Joseph M. Frullaney, and MAJ Alexander J. Bedard.** “Neurocognitive Effects of Hypoxia: A Brief Review.” *Journal of Physical Fitness, Medicine & Treatment in Sports* 4: 5 (July 17, 2018): 1-3.
- *Jaffe, Daniel A (Dr.), Dr. Jennifer Hewit, CDT Marissa Karp ‘18, and MAJ Alexander J. Bedard.** “Effects of Beta-Alanine Supplementation on Athletic Performance: A Mini-Review.” *Research & Investigations in Sports Medicine* 1: 5 (February 2018): 1-10
- Jaffe, Daniel A (Dr.), Dr. Jennifer Hewit, MAJ Alexander Bedard, and Dr. Todd Crowder.** “Improving the Physical Education Experience through Activity Based Learning: The Role of the Flipped Classroom in PE215: Foundations of Physical Fitness.” *Scholarly Journal of Psychology and Behavioral Sciences* 1: 4 (2018): 1-5.
- *Jaffe, Daniel A (Dr.), Dr. Jennifer Hewit, Dr. Jason Cholewa, MAJ Alexander Bedard, Dr. Tracey Matthews, Dr. Brian Thompson, and Dr. Samuel Headley.** “Influence of Sustained Beta-Alanine Supplementation on Body Composition and Physical Performance in College-Aged Males Seeking Military Commission.” *International Journal of Human Movement and Sports Sciences* 6: 1 (February 2018): 1-9.
- Jaffe, Daniel A (Dr.), Dr. Jennifer Hewit, 2LT Kimberly Comstock ‘18, and MAJ Alexander Bedard.** “Effects of Sleep Duration on Reaction Time: A Mini-Review.” *COJ Technical & Scientific Research* 1: 1 (July 2018): 1-5.
- Jaffe, Daniel A (Dr.), Dr. Jennifer Hewit, and 2LT Timothy Costantini ‘18.** “Effects of Post-Activation Potentiation on Athletic Performance: A Mini-Review.” *COJ Technical & Scientific Research* 1: 2 (September 2018): 1-3.
- Jaffe, Daniel A (Dr.), Dr. Jennifer Hewit, and Dr. Todd Crowder.** “Clinical Definition and Pathophysiology of Frailty: A Brief Review.” *Scholarly Journal of Psychology and Behavioral Sciences* 1: 4 (2018): 1-7.
- . “Letter to the Editor: Effects of Post-Activation Potentiation on Physical Performance Parameters: A Brief-Review.” *SOJ Neurology* 5: 1 (October 2018): 1-2.
- . “Normotensive vs Hypertensive: Blood Pressure Response During Incremental Exercise.” *Research & Investigations in Sports Medicine* 4: 1 (October 22, 2018): 1-2.
- . “The Cardiac Conduction System: A Mini Review.” *COJ Technical & Scientific Research* 1: 2 (September 2018): 1-3.
- Jaffe, Daniel A (Dr.), Dr. Jennifer Hewit, 2LT Kelly Hamilton ‘17, 2LT Jessica Burkett ‘17, and MAJ Alexander Bedard.** “Glutamate: A Mini-Review.” *Biomedical Journal of Scientific & Technical Research* 7: 2 (July 24, 2018): 1.
- *Jaffe, Daniel A (Dr.), Dr. Jennifer Hewit, 2LT Kelly Hamilton ‘17, 2LT Jessica Burkett ‘17, 2LT Josiah Luce ‘17, and MAJ Alexander Bedard.** “Brain Derived Neurotrophic Factor and Exercise.” *Research & Investigations in Sports Medicine* 2: 2 (March 28, 2018): 1-4.
- Jaffe, Daniel A (Dr.), Dr. Jennifer Hewit, Nils Pilotte, 2LT Garrett Beck ‘18, and 2LT Marissa Karp ‘18.** “Effects of Caffeine on Physical and Cognitive Performance: A Brief Review.” *Scholarly Journal of Psychology and Behavioral Sciences* 1: 3 (2018): 1-2.
- Jaffe, Daniel A (Dr.), Dr. Jennifer Hewit, Dr. Jason Sawyer, Dr. Jason Cholewa, MAJ Alexander Bedard, Dr. Tracy Matthews, Dr. Brian**

Thompson, and Dr. Samuel Headley. “Effects of Short-Term Macronutrient Redistribution on Performance Parameters in Resistance Trained Males.” *Biomedical Journal of Scientific & Technical Research* 9: 2 (September 20, 2018): 1-6.

Nowels, Russell G. (LTC), and Jennifer K. Hewit. “Improved Learning in Physical Education through Immediate Video Feedback.” *Strategies* 31: 6 (November 2, 2018): 5-9.

Army Cyber Institute COL Andrew Hall, Director

Artusy, Donna V., and **David V. Gioe.** “Information Dominance between War and Peace: China as the ‘Informationized’ State.” Review of *Cyber Dragon: Inside China’s Information Warfare and Cyber Operations*, by Dean Cheng. *International Journal of Intelligence and CounterIntelligence* 31: 3 (July 3, 2018): 626–631.

Bell, Patrick J. (CPT). “Settling for Stability: America’s Middle East Policy After the Arab Spring.” In *Democracy and Democratization: Challenges and Opportunities*, edited by Dr. Patrick Campbell, Dr. Thomas Sherlock, and MAJ Lukas Berg, 95-104. Cornwall-on-Hudson, New York: Sloan, 2018.

Bell, Patrick (CPT), Rozlyn Engel, Darren Hudson, Julian Jamison, and William Skimmyhorn (OEMA). “Risk Preferences in Future Military Leaders.” *Journal of Behavioral Economics for Policy* 2: 2 (2018): 11–24.

Bennet, Dan (COL). “Cyber and IoT Challenges and Emerging Requirements.” Panelist at the Southeast Region Cyber Security & Technology Symposium, Chapel Hill, North Carolina, October 11, 2018.

Borghard, Erica (Dr.). “Protecting Financial Institutions Against Cyber Threats: A National Security Issue.” Carnegie Endowment for International Peace, September 24, 2018.

Borghard, Erica (Dr.), and MAJ Shawn W. Lonergan (ACI Research Affiliate and formerly D/SOSH). “Confidence Building Measures for the Cyber Domain.” *Strategic Studies Quarterly*, Fall 2018 (2018): 10–49.

———. “What Do the Trump Administration’s Changes to PPD-20 Mean for U.S. Offensive Cyber Operations?” *Council on Foreign Relations Blog*, September 10, 2018. <https://www.cfr.org/blog/what-do-trump-administrations-changes-ppd-20-mean-us-offensive-cyber-operations>.

Brantly, Aaron F. (Dr.). “State Power and Internet Governance: Balancing Democratic Institutions and Optimal Outcomes.” In *Democracy and*

Democratization: Challenges and Opportunities, edited by Dr. Patrick Campbell, Dr. Thomas Sherlock, and MAJ Lukas Berg. Cornwall-on-Hudson, New York: Sloan, 2018.

Brantly, Dr. Aaron F., and COL Liam Collins (DMI). “A Bear of a Problem: Russian Special Forces Perfecting Their Cyber Capabilities.” *Army Magazine* 68:12 (December 2018): 18-19.

Gioe, Dave (Dr.). “Resilient Cyber Security: Patching the Social Layer.” Briefing for Maj. Gen. Kampenes (the Norwegian Cyber Defense Forces Commander) and his senior staff, Lillehammer, Norway, November 2018.

———. “Resilient Cyber Security.” Briefed the Norwegian Defense Intelligence College, Oslo, Norway, November 28, 2018.

———. “Accessing scholarly information from intelligence and security service archives.” Conference discussant for the annual “Need to know” conference of intelligence historians, Lillehammer, Norway, November 29, 2018.

———. “Introduction to Intelligence Studies.” Presentation at St. Mark’s University. Peru, October 22-23, 2018.

———. “Information Warfare in Historical Perspective.” Presentation at St. Mark’s University. Peru, October 22-23, 2018.

*———. “Cyber operations and useful fools: the approach of Russian hybrid intelligence.” *Intelligence and National Security*, 33: 7 (May 2018): 954-973

*———. “The Limits of War.” *The Washington Post*, June 12, 2018.

———. “White board responses: How well does the Army develop strategic leaders?” *War Room*, Army War College, July 19, 2018.

***Gioe, David (Dr.),** and Michael S. Goodman. “Russian Intelligence and the Long Arm of Vengeance.” *The Washington Times*, March 20, 2018, sec. Commentary.

Johnson, Brian David, and **LTC Natalie Vanatta.** “The inside Enemy: Weaponisation of Your Logistical Footprint.” *Journal of Supply Chain Management, Logistics and Procurement* 1: 1 (Summer 2018): 98-108(9).

Kallberg, Jan. “Train, Promote and Lose: The Battle for Retention.” Fifth Domain, July 10, 2018. <https://www.fifthdomain.com/opinion/2018/07/09/train-promote-and-lose-the-battle-for-retention/>.

———. “The Case for Humanitarian Cyber Operations.” Fifth Domain, August 8, 2018. <https://www.fifthdomain.com/opinion/2018/08/07/the-case-for-humanitarian-cyber-operations/>.

———. “The Hypervelocity Case Shot.” C4ISRNET, September 12, 2018. <https://www.c4isrnet.com/opinion/2018/09/12/the-hypervelocity-case-shot/>.

Lebiednik, Brian (MAJ). “Architecting a Secure Wireless Network-on-Chip.” 12th IEEE/ACM International Symposium on Networks-on-Chip (NOCS 2018), Torino, Italy, October 4, 2018.

Lindberg, Brett (LTC), LTC Stephen Hamilton, MAJ Brian Lebiednik, and Kyle Hager. “Cyber Integrating Architecture.” *Small Wars Journal* (July 2018).

Maxwell, Paul (Dr.), and Michael Nowatkowski. “The Unforeseen in Unmanned Vehicles.” Paper presented at the 2018 IEEE International Symposium on Technology and Society (IEEE ISTAS 2018), Washington, D.C., November 13, 2018.

Maymi, Fernando J. (Former D/EECS), and **Dr. Robert Thomson.** “Human-Machine Teaming and Cyberspace.” Paper presented at the AC: 12th International Conference on Augmented Cognition, Las Vegas, Nevada, July 15, 2018.

Raj, Rajendra K., Dr. Jean Blair (former D/EECS), **Dr. Edward Sobiesk,** and Allen Parrish. “Enhancing Cybersecurity Content in Undergraduate Information Systems Programs: A Way Forward.” In *Proceedings of the 13th Pre-ICIS Workshop on Information Security and Privacy*, San Francisco, California, December 13, 2018.

Somers, Sterling, Constantinos Mitsopoulos, Christian Lebiere, and **Dr. Robert Thomson.** “Introspection Into a Deep Reinforcement Learning Agent with ACT-R.” Paper presented at the 16th International Conference on Cognitive Modelling Meetings, University of Wisconsin, Madison, Wisconsin, July 21, 2018.

Swenson, Eric R., **MAJ Nathaniel D. Bastian,** and Harriet B. Nembhard. “Healthcare Market Segmentation and Data Mining: A Systematic Review.” *Health Marketing Quarterly*, 35: 3 (July 2018): 186-208.

Thomson, Robert (Dr.), Elie Alhajjar, Joshua Irwin, and Travis Russell. “Predicting Bias in Machine Learned Classifiers Using Clustering.” Paper presented at the 2018 International Conference on Social Computing, Behavioral-Cultural Modeling & Prediction and Behavior Representation in Modeling and Simulation, Washington, D.C., July 10, 2018.

Vanatta, Natalie (LTC). “Threatcasting Tomorrow’s Threats.” Presented at the MORS Special Meeting: Cyberspace Special Meeting – Wargaming and Analytics, Arlington, Virginia, October 2018.

———. “The IT Industry Needs Women to Survive.” Panelist at 23rd Women of Color STEM Conference, Detroit, Michigan, October 2018.

Vanatta, Natalie (LTC), and Cyndi Coon. “Introduction to Threatcasting.” Modern Warfare Symposium and Expo, Ft Bragg, North Carolina, August 2018.

Vega, Carlos (COL). “Cyber Education, Training & Research.” Panelist at the Southeast Region Cyber Security & Technology Symposium, Chapel Hill, North Carolina, October 11, 2018.

Vega, Carlos (COL), Elad Yoran, and **LTC Jon Brickley.** “Cybersecurity and Payments Roundtable.” Columbia Business School, New York City, New York, August 2018.

Whitham, Steven (CPT). “Cyber for Senior Leaders Seminar.” Army Logistics University, November 2018.

USMA Library

Christopher Barth, Librarian and Associate Dean

Barth, Christopher. Episode 25: To Catch an Archival Thief, interview with Geof Huth and Karen Trivette. *An Archivist’s Tale*. Podcast audio, 66:03. August 2018.

Seminelli, Heather. “Exploring the Effectiveness of Visual Literacy and Communication Skills Instruction.” Poster presented at the Library Assessment Conference, Houston, Texas, December 2018.

Center for Enhanced Performance LTC Darcy Schnack, Director

Morton, Scotta, Ashwin Patel, Tracy Carrington, **Jennifer Arnold,** and Nick Bartley. “5 Slides in 5 Minutes: Team Building.” Panelists at the Association of Applied Sport Psychology, Toronto, Canada, October 6, 2018.

Zuleger, Brian, Scotta Morton, **Jeff Coleman,** Vanessa Shannon, Katherin McLean, and **Dr. Nathaniel Zinsser.** “Integrating Applied Sport Psychology into Collegiate Athletics: Lessons Learned and Future Directions.” Panelists at the Association of Applied Sport Psychology, Toronto, Canada, October 5, 2018.

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 2019. Please submit your work to your library liaison listed below:

Behavioral Sciences and Leadership	Jennifer Chess
Chemistry and Life Science	Manja Yirka
Civil and Mechanical Engineering	Laura Mosher
Electrical Engineering and Computer Science & ACI	Nick Olijnyk
English and Philosophy	Susan Lintelmann
Foreign Languages	Elaine McConnell
Geography and Environmental Engineering	Alicia Mauldin-Ware
History - American and International	Mary Ahenakew
History - Military	Mark Danley
Law	Suzanne Christoff
Mathematical Sciences	Heather Seminelli
Physics and Nuclear Engineering	Charles Clausen
Social Sciences	Michael Arden
Systems Engineering	Jenny Davis
Research Centers	Stacy Bloomingdale
Dean's Staff	Jessica Patterson
Military Instruction	Daniel Pritchard
Physical Education	Celeste Evans
Center for Enhanced Performance	Karen Shea
USMA Prep School	Karen Shea